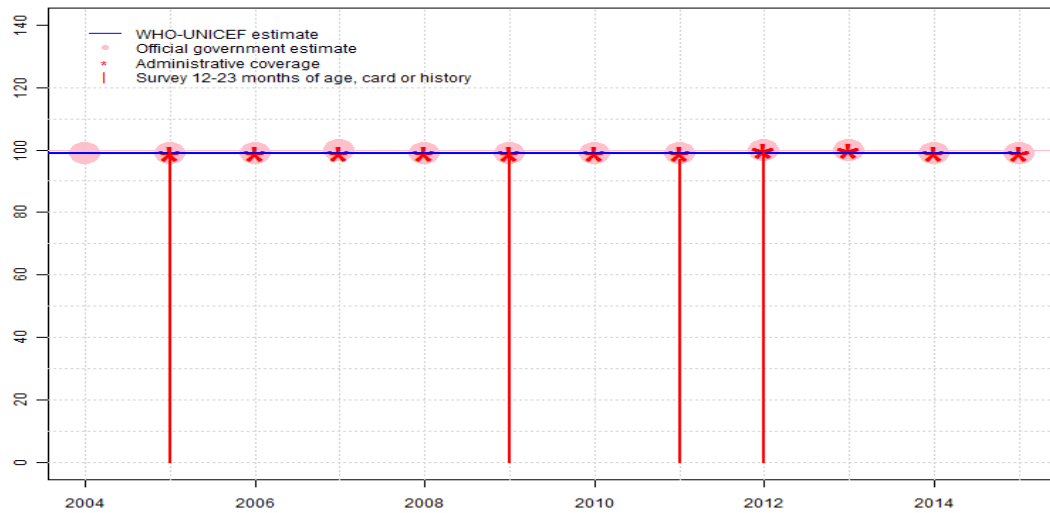


CUB - BCG



	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Estimate	99	99	99	99	99	99	99	99	99	99	99	99
Estimate GoC	●●●	●●●	●	●	●●●	●●●	●●●	●●●	●●●	●●●	●●●	●●
Official	99	99	99	100	99	99	99	99	100	100	99	99
Administrative	NA	99	99	99	99	99	99	99	100	100	99	99
Survey	NA	100	NA	NA	NA	100	NA	97	100	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.

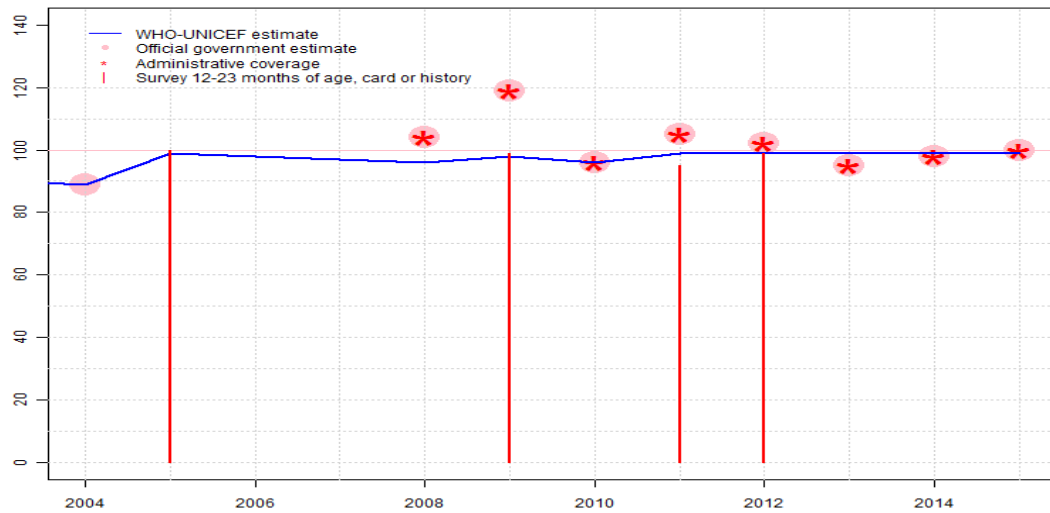
In all cases these estimates should be used with caution and should be assessed in light of the objective for which they are being used.

Description:

- 2004: Estimate based on coverage reported by national government. GoC=R+ S+ D+
- 2005: Estimate based on coverage reported by national government supported by survey. Survey evidence of 100 percent based on 1 survey(s). GoC=R+ S+ D+
- 2006: 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-
- 2008: Estimate based on coverage reported by national government. GoC=R+ S+ D+
- 2009: Estimate based on coverage reported by national government supported by survey. Survey evidence of 100 percent based on 1 survey(s). GoC=R+ S+ D+
- 2010: Estimate based on coverage reported by national government. GoC=R+ S+ D+
- 2011: Estimate based on coverage reported by national government supported by survey. Survey evidence of 97 percent based on 1 survey(s). GoC=R+ S+ D+
- 2012: Estimate based on coverage reported by national government supported by survey. Survey evidence of 100 percent based on 1 survey(s). GoC=R+ S+ D+
- 2013: Estimate based on coverage reported by national government. GoC=R+ S+ D+
- 2014: Estimate based on coverage reported by national government. GoC=R+ S+ D+
- 2015: Estimate based on coverage reported by national government. GoC=R+ S+ D+

Cuba - DTP1

CUB - DTP1



	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Estimate	89	99	98	97	96	98	96	99	99	99	99	99
Estimate GoC	●●	●	●	●	●●	●	●●●	●	●	●	●	●●
Official	89	NA	NA	NA	104	119	96	105	102	95	98	100
Administrative	NA	NA	NA	NA	104	119	96	105	102	95	98	100
Survey	NA	100	NA	NA	NA	99	NA	95	99	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.

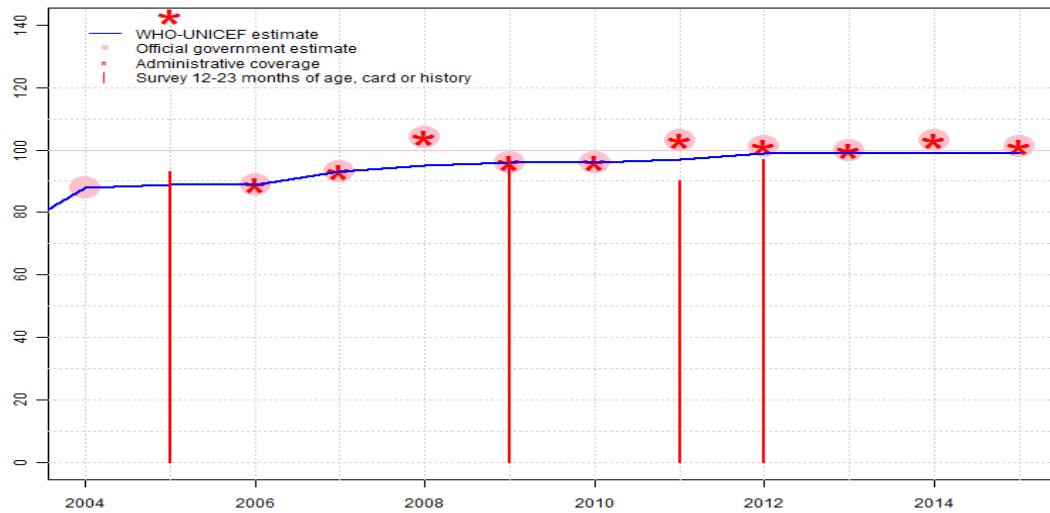
In all cases these estimates should be used with caution and should be assessed in light of the objective for which they are being used.

Description:

- 2004: Estimate is based on reported data. GoC=R+ D+
- 2005: Estimate is based on survey results. Estimate challenged by: D-
- 2006: Reported data calibrated to 2005 and 2009 levels. Estimate challenged by: D-
- 2007: Reported data calibrated to 2005 and 2009 levels. Estimate challenged by: D-
- 2008: Reported data calibrated to 2005 and 2009 levels. Reported data excluded. 104 percent greater than 100 percent. GoC=S+ D+
- 2009: DTP1 coverage estimated based on DTP3 coverage of 96. Reported data excluded. 119 percent greater than 100 percent. Reported data excluded. Unexplained increase from 104 percent to 119 percent with decrease 96 percent. Estimate challenged by: R-
- 2010: Estimate based on coverage reported by national government. GoC=R+ S+ D+
- 2011: DTP1 coverage estimated based on DTP3 coverage of 97. Reported data excluded. 105 percent greater than 100 percent. Estimate of 99 percent changed from previous revision value of 96 percent. Estimate challenged by: D-R-
- 2012: DTP1 coverage estimated based on DTP3 coverage of 99. Reported data excluded. 102 percent greater than 100 percent. Estimate of 99 percent changed from previous revision value of 98 percent. Estimate challenged by: R-
- 2013: DTP1 coverage estimated based on DTP3 coverage of 100. Estimate of 99 percent changed from previous revision value of 98 percent. Estimate challenged by: R-
- 2014: DTP1 coverage estimated based on DTP3 coverage of 100. Estimate of 99 percent changed from previous revision value of 98 percent. Estimate challenged by: R-
- 2015: Estimate based on coverage reported by national government. GoC=R+ D+

Cuba - DTP3

CUB - DTP3



	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Estimate	88	89	89	93	95	96	96	97	99	99	99	99
Estimate GoC	••	•	•••	•	••	•••	•••	•	•	•••	•	••
Official	88	NA	89	93	104	96	96	103	101	100	103	101
Administrative	NA	143	89	93	104	96	96	103	101	100	103	101
Survey	NA	93	NA	NA	NA	97	NA	90	97	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:

- 2004: Reported data calibrated to 1997 and 2005 levels. GoC=S+ D+
- 2005: Estimate based on interpolation between data reported by national government supported by survey. Survey evidence of 94 percent based on 1 survey(s). Cuba Multiple Indicator Cluster Survey, 2006 card or history results of 93 percent modified for recall bias to 94 percent based on 1st dose card or history coverage of 100 percent, 1st dose card only coverage of 97 percent and 3d dose card only coverage of 91 percent. Reported data excluded. 143 percent greater than 100 percent. Reported data excluded. Unexplained increase from 88 percent to 143 percent with decrease 89 percent. Estimate challenged by: D-
- 2006: Estimate based on coverage reported by national government. GoC=R+ S+ D+
- 2007: Estimate based on coverage reported by national government. Estimate challenged by: D-
- 2008: Estimate based on interpolation between coverage reported by national government. Reported data excluded. 104 percent greater than 100 percent. GoC=S+ D+
- 2009: Estimate based on coverage reported by national government supported by survey. Survey evidence of 97 percent based on 1 survey(s). GoC=R+ S+ D+
- 2010: Estimate based on coverage reported by national government. GoC=R+ S+ D+
- 2011: Estimate based on interpolation between data reported by national government supported by survey. Survey evidence of 92 percent based on 1 survey(s). Cuba Multiple Indicator Cluster Survey, 2014 card or history results of 90 percent modified for recall bias to 92 percent based on 1st dose card or history coverage of 95 percent, 1st dose card only coverage of 88 percent and 3d dose card only coverage of 85 percent. Reported data excluded. 103 percent greater than 100 percent. Estimate of 97 percent changed from previous revision value of 96 percent. Estimate challenged by: D-
- 2012: Estimate based on interpolation between data reported by national government supported by survey. Survey evidence of 96 percent based on 1 survey(s). Cuba Multiple Indicator Cluster Survey, 2014 card or history results of 97 percent modified for recall bias to 96 percent based on 1st dose card or history coverage of 99 percent, 1st dose card only coverage of 96 percent and 3d dose card only coverage of 93 percent. Reported data excluded. 101 percent greater than 100 percent. Estimate of 99 percent changed from previous revision value of 96 percent. Estimate challenged by: D-
- 2013: Estimate based on coverage reported by national government. Estimate of

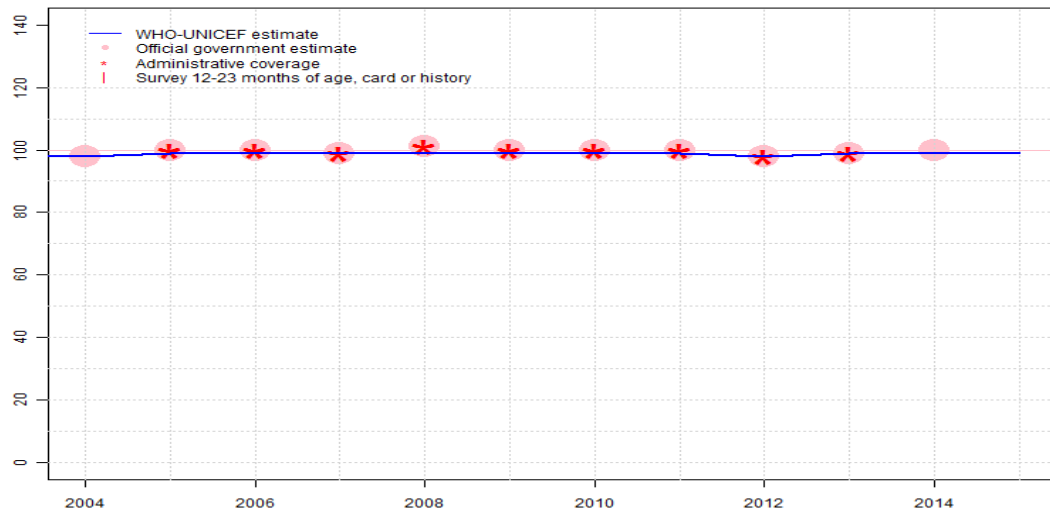
Cuba - DTP3

99 percent changed from previous revision value of 96 percent. GoC=R+S+ D+

2014: Estimate based on extrapolation from data reported by national government. Reported data excluded. 103 percent greater than 100 percent. Estimate of 99 percent changed from previous revision value of 96 percent. Estimate challenged by: D-

2015: Estimate based on extrapolation from data reported by national government. Reported data excluded. 101 percent greater than 100 percent. GoC=D+

CUB - Pol3



	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Estimate	98	99	99	99	101	99	99	99	98	99	99	99
Estimate GoC	●●	●●	●●	●	●●	●●	●●	●	●	●●	●●	●
Official	98	100	100	99	101	100	100	100	98	99	100	NA
Administrative	NA	100	100	99	101	100	100	100	98	99	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.

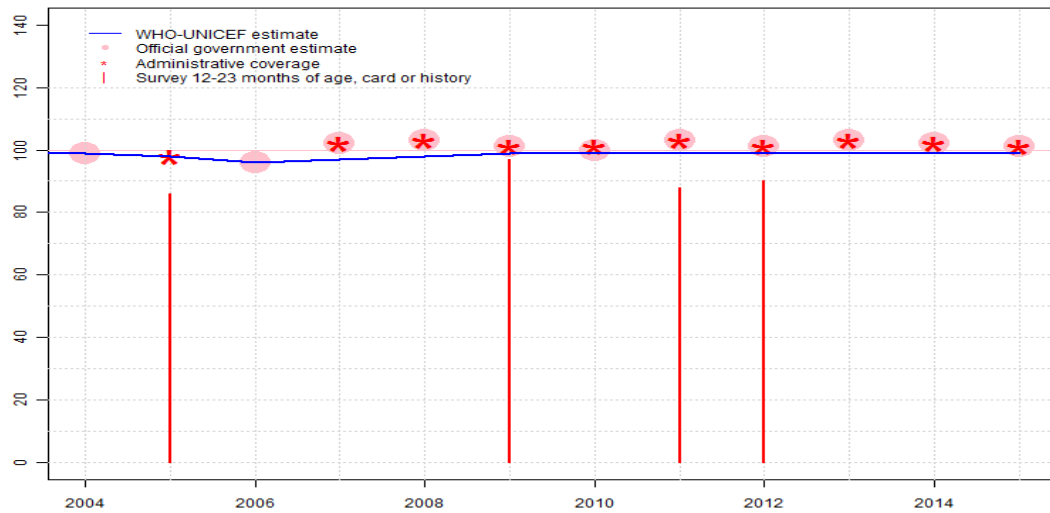
In all cases these estimates should be used with caution and should be assessed in light of the objective for which they are being used.

Description:

- 2004: Estimate based on coverage reported by national government. GoC=R+ D+
- 2005: Estimate based on coverage reported by national government. GoC=R+ D+
- 2006: Estimate based on coverage reported by national government. GoC=R+ D+
- 2007: Estimate based on coverage reported by national government. Estimate challenged by: D-
- 2008: Estimate based on interpolation between data reported by national government. Reported data excluded. 101 percent greater than 100 percent. GoC=D+
- 2009: Estimate based on coverage reported by national government. GoC=R+ D+
- 2010: Estimate based on coverage reported by national government. GoC=R+ D+
- 2011: Estimate based on coverage reported by national government. Estimate challenged by: D-
- 2012: Estimate based on coverage reported by national government. Estimate challenged by: D-
- 2013: Estimate based on coverage reported by national government. Estimate of 99 percent changed from previous revision value of 98 percent. GoC=R+ D+
- 2014: Estimate based on coverage reported by national government. GoC=R+ D+
- 2015: Estimate based on extrapolation from data reported by national government. GoC=No accepted empirical data

Cuba - MCV1

CUB - MCV1



	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Estimate	99	98	96	97	98	99	99	99	99	99	99	99
Estimate GoC	•	•	•	•	••	•	•	•	•	•	•	••
Official	99	NA	96	102	103	101	100	103	101	103	102	101
Administrative	NA	98	NA	102	103	101	101	103	101	103	102	101
Survey	NA	86	NA	NA	NA	97	NA	88	90	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.

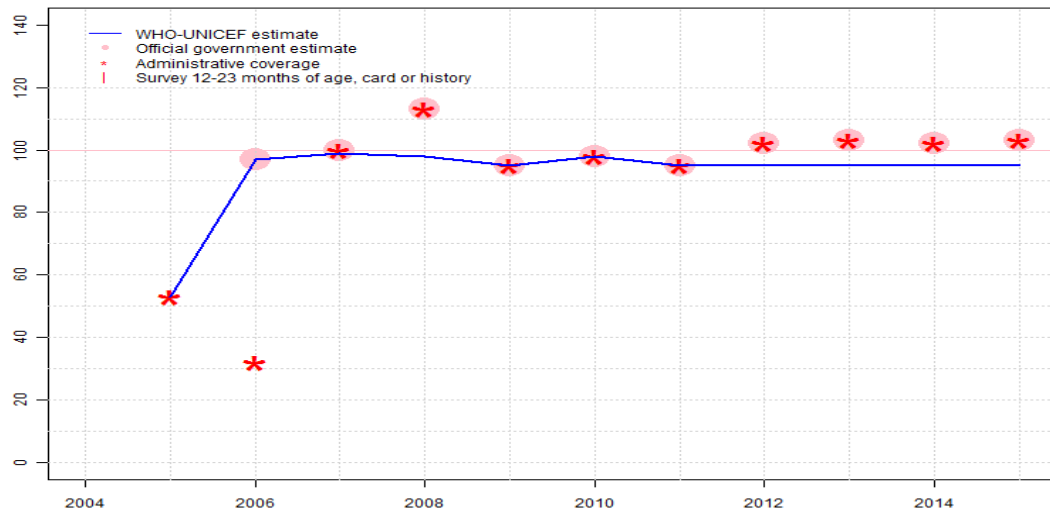
In all cases these estimates should be used with caution and should be assessed in light of the objective for which they are being used.

Description:

- 2004: Estimate based on coverage reported by national government. Estimate challenged by: S-
- 2005: Estimate based on reported administrative data. Cuba Multiple Indicator Cluster Survey, 2006 results ignored by working group. Measles vaccination is recommended between 12 and 23 months of age. Survey cohort under-estimates coverage. Estimate challenged by: S-
- 2006: Estimate based on coverage reported by national government. Estimate challenged by: S-
- 2007: Estimate based on interpolation between coverage reported by national government. Reported data excluded. 102 percent greater than 100 percent. Estimate challenged by: S-
- 2008: Estimate based on interpolation between coverage reported by national government. Reported data excluded. 103 percent greater than 100 percent. GoC=S+ D+
- 2009: Estimate based on interpolation between data reported by national government supported by survey. Survey evidence of 97 percent based on 1 survey(s). Reported data excluded. 101 percent greater than 100 percent. Estimate challenged by: S-
- 2010: Estimate based on coverage reported by national government. Estimate challenged by: S-
- 2011: . Cuba Multiple Indicator Cluster Survey, 2014 results ignored by working group. Vaccine to vaccine consistency. Reported data excluded. 103 percent greater than 100 percent. Estimate challenged by: R-S-
- 2012: Estimate based on extrapolation from data reported by national government supported by survey. Survey evidence of 90 percent based on 1 survey(s). Reported data excluded. 101 percent greater than 100 percent. Estimate challenged by: D-S-
- 2013: Estimate based on extrapolation from data reported by national government. Reported data excluded. 103 percent greater than 100 percent. Estimate challenged by: D-S-
- 2014: Estimate based on extrapolation from data reported by national government. Reported data excluded. 102 percent greater than 100 percent. Estimate challenged by: D-
- 2015: Estimate based on extrapolation from data reported by national government. Reported data excluded. 101 percent greater than 100 percent. GoC=D+

Cuba - MCV2

CUB - MCV2



	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Estimate	NA	53	97	99	98	95	98	95	95	95	95	95
Estimate GoC	NA	●●	●	●	●	●	●●	●●	●●	●●	●●	●
Official	NA	NA	97	100	113	95	98	95	102	103	102	103
Administrative	NA	53	32	100	113	95	98	95	102	103	102	103
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.

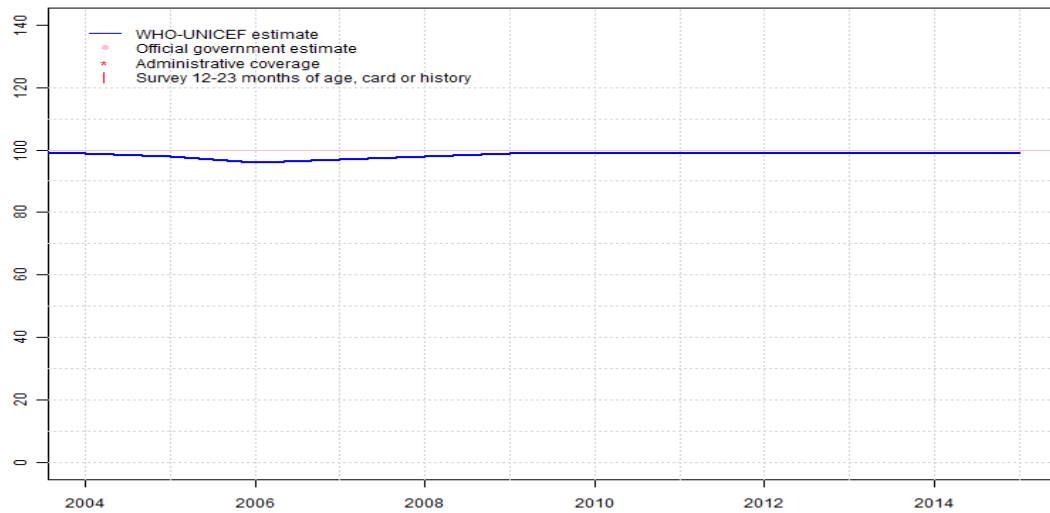
In all cases these estimates should be used with caution and should be assessed in light of the objective for which they are being used.

Description:

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

- 2005: Estimate based on reported administrative estimate. GoC=R+ D+
- 2006: 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-
- 2008: Estimate based on interpolation between reported values. Reported data excluded. 113 percent greater than 100 percent. Reported data excluded. Unexplained increase from 100 percent to 113 percent with decrease 95 percent. Estimate challenged by: D-
- 2009: Estimate based on coverage reported by national government. Estimate challenged by: D-
- 2010: Estimate based on coverage reported by national government. GoC=R+ D+
- 2011: Estimate based on coverage reported by national government. GoC=R+ D+
- 2012: Estimate based on extrapolation from data reported by national government. Reported data excluded. 102 percent greater than 100 percent. GoC=D+
- 2013: Estimate based on extrapolation from data reported by national government. Reported data excluded. 103 percent greater than 100 percent. GoC=D+
- 2014: Estimate based on extrapolation from data reported by national government. Reported data excluded. 102 percent greater than 100 percent. GoC=D+
- 2015: Estimate based on extrapolation from data reported by national government. Reported data excluded. 103 percent greater than 100 percent. Estimate challenged by: D-

CUB - RCV1



	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Estimate	99	98	96	97	98	99	99	99	99	99	99	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.

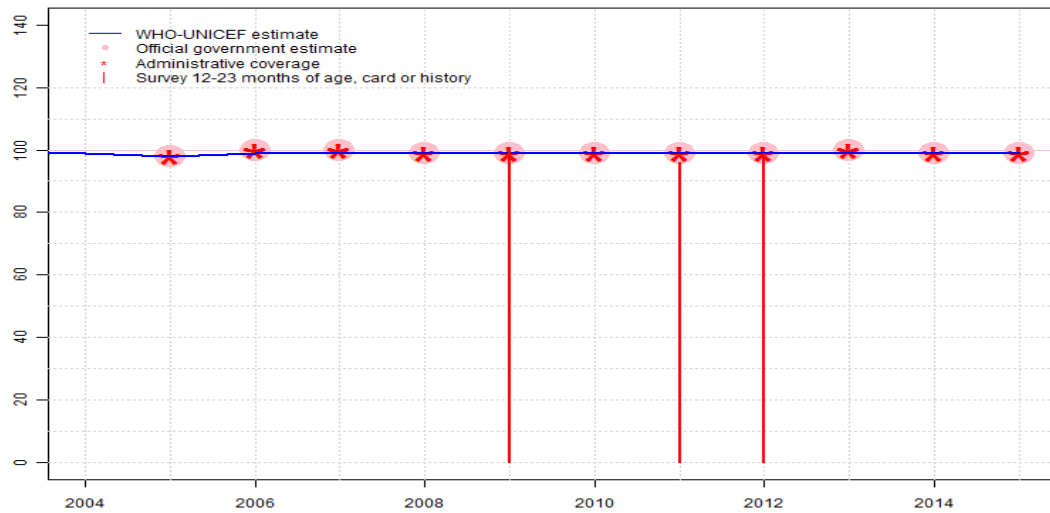
Description:

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 accompanying graph and data table.

- 2004: Estimate based on estimated MCV1. Estimate challenged by: S-
- 2005: Estimate based on estimated MCV1. Estimate challenged by: S-
- 2006: Estimate based on estimated MCV1. Estimate challenged by: S-
- 2007: Estimate based on estimated MCV1. Estimate challenged by: S-
- 2008: Estimate based on estimated MCV1. GoC=S+ D+
- 2009: Estimate based on estimated MCV1. Estimate challenged by: S-
- 2010: Estimate based on estimated MCV1. Estimate challenged by: S-
- 2011: . Estimate challenged by: R-S-
- 2012: Estimate based on estimated MCV1. Estimate challenged by: D-S-
- 2013: Estimate based on estimated MCV1. Estimate challenged by: D-S-
- 2014: Estimate based on estimated MCV1. Estimate challenged by: D-
- 2015: Estimate based on estimated MCV1. GoC=D+

Cuba - HepBB

CUB - HepBB



	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Estimate	99	98	99	99	99	99	99	99	99	99	99	99
Estimate GoC	●	●●	●	●	●●●	●●●	●●●	●●●	●●●	●●●	●●●	●●
Official	NA	98	100	100	99	99	99	99	99	100	99	99
Administrative	NA	98	100	100	99	99	99	99	99	100	99	99
Survey	NA	NA	NA	NA	NA	100	NA	96	99	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.

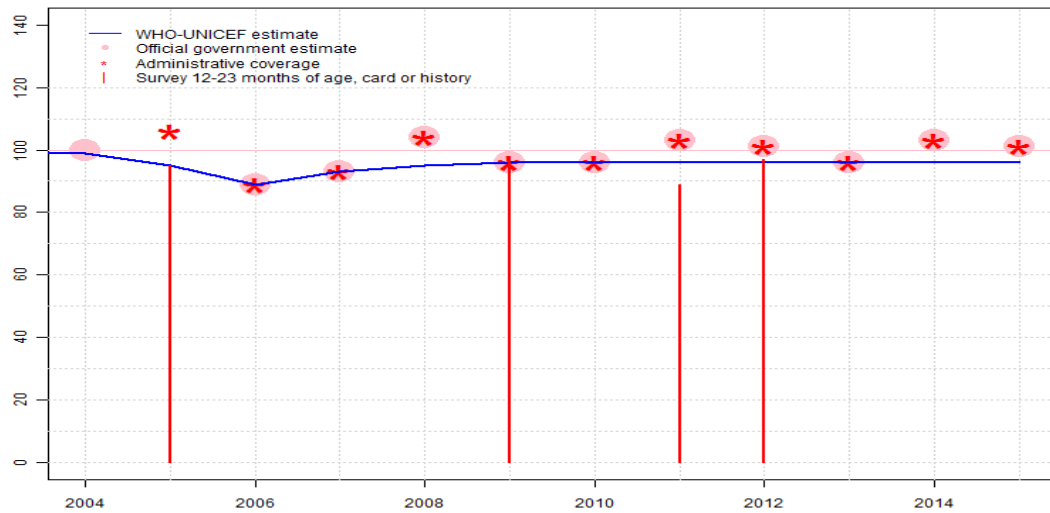
In all cases these estimates should be used with caution and should be assessed in light of the objective for which they are being used.

Description:

- 2004: Estimate based on interpolation between data reported by national government. GoC=No accepted empirical data
- 2005: Estimate based on reported data. GoC=R+ D+
- 2006: Estimate based on reported data. Estimate challenged by: D-
- 2007: Estimate based on reported data. Estimate challenged by: D-
- 2008: Estimate based on reported data. GoC=R+ S+ D+
- 2009: Estimate based on coverage reported by national government supported by survey. Survey evidence of 100 percent based on 1 survey(s). GoC=R+ S+ D+
- 2010: Estimate based on coverage reported by national government. GoC=R+ S+ D+
- 2011: Estimate based on coverage reported by national government supported by survey. Survey evidence of 96 percent based on 1 survey(s). GoC=R+ S+ D+
- 2012: Estimate based on coverage reported by national government supported by survey. Survey evidence of 99 percent based on 1 survey(s). GoC=R+ S+ D+
- 2013: Estimate based on coverage reported by national government. GoC=R+ S+ D+
- 2014: Estimate based on coverage reported by national government. GoC=R+ S+ D+
- 2015: Estimate based on coverage reported by national government. GoC=R+ D+

Cuba - HepB3

CUB - HepB3



	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Estimate	99	95	89	93	95	96	96	96	96	96	96	96
Estimate GoC	●●●	●	●	●	●●	●●●	●●●	●	●	●	●	●
Official	100	NA	89	93	104	96	96	103	101	96	103	101
Administrative	NA	106	89	93	104	96	96	103	101	96	103	101
Survey	NA	95	NA	NA	NA	97	NA	89	97	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:

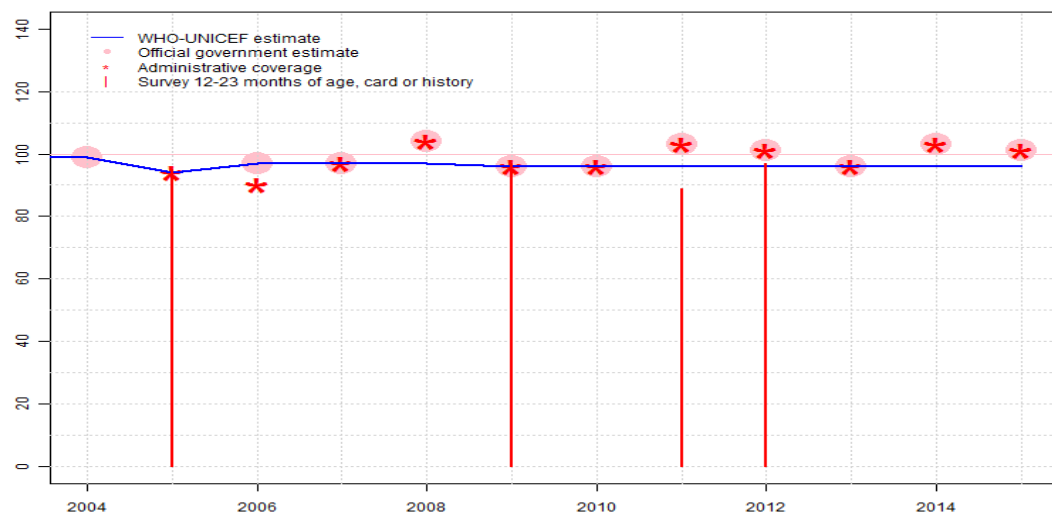
- 2004: Estimate based on coverage reported by national government. GoC=R+ S+ D+
- 2005: Estimate based on interpolation between data reported by national government supported by survey. Survey evidence of 94 percent based on 1 survey(s). Cuba Multiple Indicator Cluster Survey, 2006 card or history results of 95 percent modified for recall bias to 94 percent based on 1st dose card or history coverage of 99 percent, 1st dose card only coverage of 97 percent and 3d dose card only coverage of 92 percent. Reported data excluded. 106 percent greater than 100 percent. Estimate challenged by: D-
- 2006: 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-
- 2008: Estimate based on interpolation between coverage reported by national government. Reported data excluded. 104 percent greater than 100 percent. GoC=S+ D+
- 2009: Estimate based on coverage reported by national government supported by survey. Survey evidence of 97 percent based on 1 survey(s). GoC=R+ S+ D+
- 2010: Estimate based on coverage reported by national government. GoC=R+ S+ D+
- 2011: Estimate based on interpolation between data reported by national government supported by survey. Survey evidence of 91 percent based on 1 survey(s). Cuba Multiple Indicator Cluster Survey, 2014 card or history results of 89 percent modified for recall bias to 91 percent based on 1st dose card or history coverage of 94 percent, 1st dose card only coverage of 87 percent and 3d dose card only coverage of 84 percent. Reported data excluded. 103 percent greater than 100 percent. Estimate challenged by: D-
- 2012: Estimate based on interpolation between data reported by national government supported by survey. Survey evidence of 97 percent based on 1 survey(s). Reported data excluded. 101 percent greater than 100 percent. Estimate challenged by: D-
- 2013: Estimate based on coverage reported by national government. Estimate challenged by: D-
- 2014: Estimate based on extrapolation from data reported by national government. Reported data excluded. 103 percent greater than 100 percent. Estimate challenged by: D-
- 2015: Estimate based on extrapolation from data reported by national government. Reported data excluded. 101 percent greater than 100 percent. Estimate

Cuba - HepB3

challenged by: D-

Cuba - Hib3

CUB - Hib3



	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Estimate	99	94	97	97	97	96	96	96	96	96	96	96
Estimate GoC	●●●	●●●	●	●	●●	●●●	●●●	●	●	●	●	●
Official	99	NA	97	97	104	96	96	103	101	96	103	101
Administrative	NA	94	90	97	104	96	96	103	101	96	103	101
Survey	NA	95	NA	NA	NA	97	NA	89	97	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.

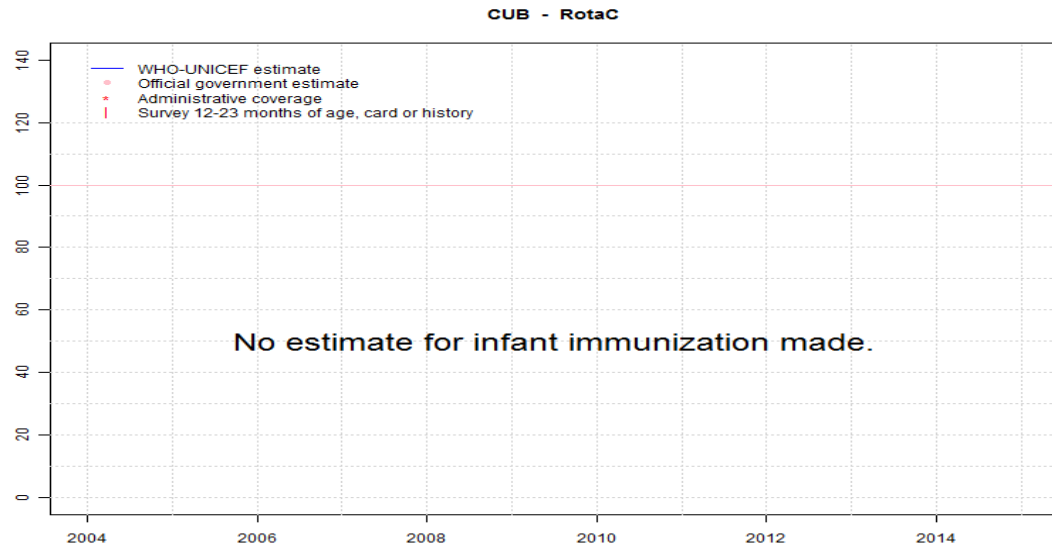
- Estimate is supported by reported data [R+], coverage recalculated with an independent denominator from the World Population Prospects: 2015 revision from the UN Population Division (D+), and at least one supporting survey within 2 years [S+]. While well supported, the estimate still carries a risk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

- 2004: Estimate based on reported data. GoC=R+ S+ D+
- 2005: Estimate based on administrative data reported by national government supported by survey. Survey evidence of 95 percent based on 1 survey(s). GoC=R+ S+ D+
- 2006: 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-
- 2008: Estimate based on interpolation between coverage reported by national government. Reported data excluded. 104 percent greater than 100 percent. GoC=S+ D+
- 2009: Estimate based on coverage reported by national government supported by survey. Survey evidence of 97 percent based on 1 survey(s). GoC=R+ S+ D+
- 2010: Estimate based on coverage reported by national government. GoC=R+ S+ D+
- 2011: Estimate based on interpolation between data reported by national government supported by survey. Survey evidence of 91 percent based on 1 survey(s). Cuba Multiple Indicator Cluster Survey, 2014 card or history results of 89 percent modified for recall bias to 91 percent based on 1st dose card or history coverage of 94 percent, 1st dose card only coverage of 87 percent and 3d dose card only coverage of 84 percent. Reported data excluded. 103 percent greater than 100 percent. Estimate challenged by: D-
- 2012: Estimate based on interpolation between data reported by national government supported by survey. Survey evidence of 97 percent based on 1 survey(s). Reported data excluded. 101 percent greater than 100 percent. Estimate challenged by: D-
- 2013: Estimate based on coverage reported by national government. Estimate challenged by: D-
- 2014: Estimate based on extrapolation from data reported by national government. Reported data excluded. 103 percent greater than 100 percent. Estimate challenged by: D-
- 2015: Estimate based on extrapolation from data reported by national government. Reported data excluded. 101 percent greater than 100 percent. Estimate challenged by: D-

Cuba - RotaC

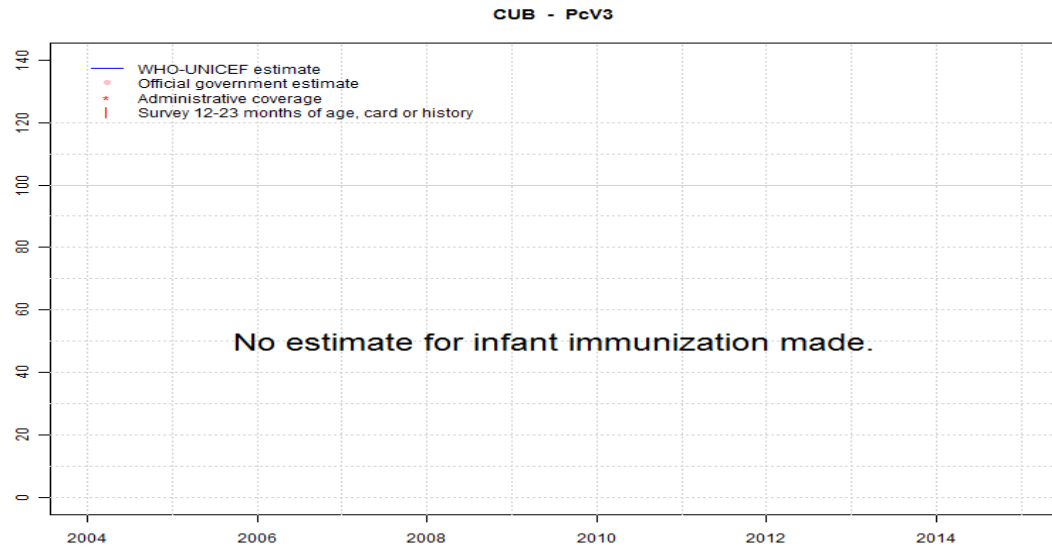


	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Estimate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Estimate GoC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Official	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Administrative	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Survey	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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.



	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
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.

Cuba - survey details

2012 Encuesta de Indicadores Múltiples por Conglomerados,
Cuba, 2014

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	C or H <12 months	100	12-23 m	1148	87
BCG	Card	96	12-23 m	1148	87
BCG	Card or History	100	12-23 m	1148	87
BCG	History	4	12-23 m	1148	87
DTP1	C or H <12 months	99	12-23 m	1148	87
DTP1	Card	96	12-23 m	1148	87
DTP1	Card or History	99	12-23 m	1148	87
DTP1	History	4	12-23 m	1148	87
DTP3	C or H <12 months	97	12-23 m	1148	87
DTP3	Card	93	12-23 m	1148	87
DTP3	Card or History	97	12-23 m	1148	87
DTP3	History	4	12-23 m	1148	87
HepB1	C or H <12 months	99	12-23 m	1148	87
HepB1	Card	95	12-23 m	1148	87
HepB1	Card or History	99	12-23 m	1148	87
HepB1	History	4	12-23 m	1148	87
HepB3	C or H <12 months	97	12-23 m	1148	87
HepB3	Card	93	12-23 m	1148	87
HepB3	Card or History	97	12-23 m	1148	87
HepB3	History	4	12-23 m	1148	87
HepBB	C or H <12 months	99	12-23 m	1148	87
HepBB	Card	96	12-23 m	1148	87
HepBB	Card or History	99	12-23 m	1148	87
HepBB	History	3	12-23 m	1148	87
Hib1	C or H <12 months	98	12-23 m	1148	87
Hib1	Card	95	12-23 m	1148	87
Hib1	Card or History	99	12-23 m	1148	87
Hib1	History	4	12-23 m	1148	87
Hib3	C or H <12 months	97	12-23 m	1148	87
Hib3	Card	93	12-23 m	1148	87
Hib3	Card or History	97	12-23 m	1148	87
Hib3	History	4	12-23 m	1148	87
MCV1	Card	86	12-23 m	1148	87
MCV1	Card or History	90	12-23 m	1148	87
MCV1	History	4	12-23 m	1148	87

2011 Encuesta de Indicadores Múltiples por Conglomerados,
Cuba, 2014

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	C or H <12 months	96	24-35 m	1175	87
BCG	Card	90	24-35 m	1175	87
BCG	Card or History	97	24-35 m	1175	87
BCG	History	6	24-35 m	1175	87
DTP1	C or H <12 months	94	24-35 m	1175	87
DTP1	Card	88	24-35 m	1175	87
DTP1	Card or History	95	24-35 m	1175	87
DTP1	History	6	24-35 m	1175	87
DTP3	C or H <12 months	88	24-35 m	1175	87
DTP3	Card	85	24-35 m	1175	87
DTP3	Card or History	90	24-35 m	1175	87
DTP3	History	5	24-35 m	1175	87
HepB1	C or H <12 months	94	24-35 m	1175	87
HepB1	Card	87	24-35 m	1175	87
HepB1	Card or History	94	24-35 m	1175	87
HepB1	History	6	24-35 m	1175	87
HepB3	C or H <12 months	88	24-35 m	1175	87
HepB3	Card	84	24-35 m	1175	87
HepB3	Card or History	89	24-35 m	1175	87
HepB3	History	5	24-35 m	1175	87
HepBB	C or H <12 months	96	24-35 m	1175	87
HepBB	Card	90	24-35 m	1175	87
HepBB	Card or History	96	24-35 m	1175	87
HepBB	History	6	24-35 m	1175	87
Hib1	C or H <12 months	93	24-35 m	1175	87
Hib1	Card	87	24-35 m	1175	87
Hib1	Card or History	94	24-35 m	1175	87
Hib1	History	7	24-35 m	1175	87
Hib3	C or H <12 months	88	24-35 m	1175	87
Hib3	Card	84	24-35 m	1175	87
Hib3	Card or History	89	24-35 m	1175	87
Hib3	History	5	24-35 m	1175	87
MCV1	C or H <12 months	87	24-35 m	1175	87
MCV1	Card	82	24-35 m	1175	87

Cuba - survey details

MCV1	Card or History	88	24-35 m	1175	87
MCV1	History	6	24-35 m	1175	87

MCV1	C or H <12 months	91	18-29 m	1413	95
MCV1	Card	92	18-29 m	1413	95
MCV1	Card or History	97	18-29 m	1413	95
MCV1	History	5	18-29 m	1413	95

2009 Encuesta de Indicadores Múltiples por Conglomerados de Cuba 2010/11

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	C or H <12 months	99	18-29 m	1413	95
BCG	Card	94	18-29 m	1413	95
BCG	Card or History	100	18-29 m	1413	95
BCG	History	5	18-29 m	1413	95
DTP1	C or H <12 months	98	18-29 m	1413	95
DTP1	Card	94	18-29 m	1413	95
DTP1	Card or History	99	18-29 m	1413	95
DTP1	History	5	18-29 m	1413	95
DTP3	C or H <12 months	93	18-29 m	1413	95
DTP3	Card	92	18-29 m	1413	95
DTP3	Card or History	97	18-29 m	1413	95
DTP3	History	5	18-29 m	1413	95
HepB1	C or H <12 months	98	18-29 m	1413	95
HepB1	Card	94	18-29 m	1413	95
HepB1	Card or History	99	18-29 m	1413	95
HepB1	History	5	18-29 m	1413	95
HepB3	C or H <12 months	93	18-29 m	1413	95
HepB3	Card	92	18-29 m	1413	95
HepB3	Card or History	97	18-29 m	1413	95
HepB3	History	5	18-29 m	1413	95
HepBB	C or H <12 months	99	18-29 m	1413	95
HepBB	Card	95	18-29 m	1413	95
HepBB	Card or History	100	18-29 m	1413	95
HepBB	History	5	18-29 m	1413	95
Hib1	C or H <12 months	98	18-29 m	1413	95
Hib1	Card	94	18-29 m	1413	95
Hib1	Card or History	99	18-29 m	1413	95
Hib1	History	5	18-29 m	1413	95
Hib3	C or H <12 months	93	18-29 m	1413	95
Hib3	Card	92	18-29 m	1413	95
Hib3	Card or History	97	18-29 m	1413	95
Hib3	History	5	18-29 m	1413	95

2005 La Encuesta de Indicadores Múltiples por Conglomerados 2006 de Cuba

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	C or H <12 months	100	12-23 m	1840	98
BCG	Card	98	12-23 m	1840	98
BCG	Card or History	100	12-23 m	1840	98
BCG	History	2	12-23 m	1840	98
DTP1	C or H <12 months	99	12-23 m	1840	98
DTP1	Card	97	12-23 m	1840	98
DTP1	Card or History	100	12-23 m	1840	98
DTP1	History	2	12-23 m	1840	98
DTP3	C or H <12 months	86	12-23 m	1840	98
DTP3	Card	91	12-23 m	1840	98
DTP3	Card or History	93	12-23 m	1840	98
DTP3	History	2	12-23 m	1840	98
HepB1	C or H <12 months	99	12-23 m	1840	98
HepB1	Card	97	12-23 m	1840	98
HepB1	Card or History	99	12-23 m	1840	98
HepB1	History	2	12-23 m	1840	98
HepB3	C or H <12 months	92	12-23 m	1840	98
HepB3	Card	92	12-23 m	1840	98
HepB3	Card or History	95	12-23 m	1840	98
HepB3	History	2	12-23 m	1840	98
Hib3	C or H <12 months	89	12-23 m	1840	98
Hib3	Card	93	12-23 m	1840	98
Hib3	Card or History	95	12-23 m	1840	98
Hib3	History	2	12-23 m	1840	98
MCV1	C or H <12 months	83	12-23 m	1840	98
MCV1	Card	83	12-23 m	1840	98
MCV1	Card or History	86	12-23 m	1840	98
MCV1	History	3	12-23 m	1840	98
Pol1	C or H <12 months	92	12-23 m	1840	98
Pol1	Card	65	12-23 m	1840	98

Cuba - survey details

Pol1	Card or History	95	12-23 m	1840	98
Pol1	History	30	12-23 m	1840	98

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