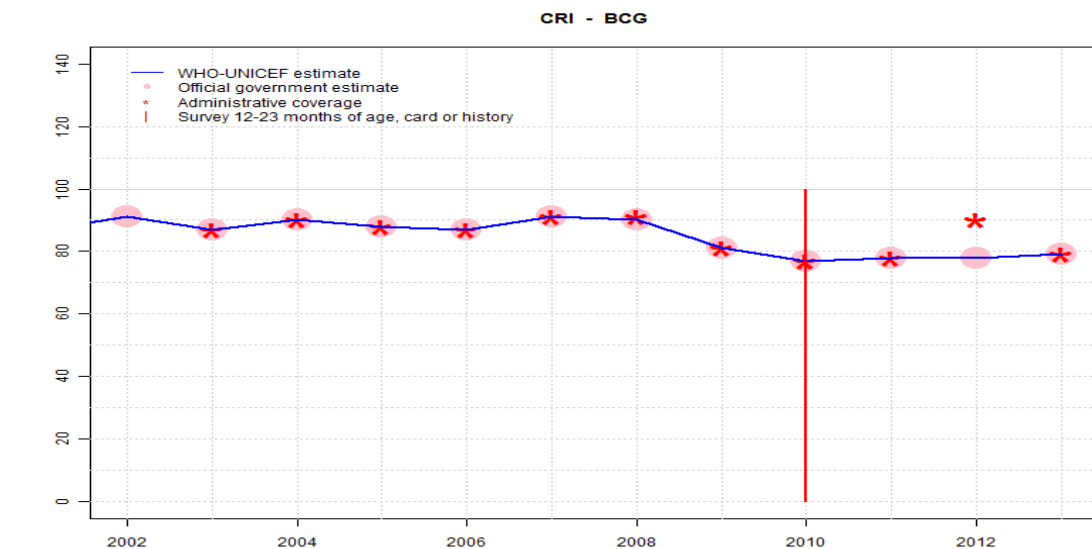


Costa Rica - BCG



	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Estimate	91	87	90	88	87	91	90	81	77	78	78	79
Estimate GoC	••	••	••	••	••	••	•	•	•	•	•	••
Official	91	87	90	88	87	91	90	81	77	78	78	79
Administrative	NA	87	90	88	87	91	91	81	77	78	90	79
Survey	NA	NA	NA	NA	NA	NA	NA	NA	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.

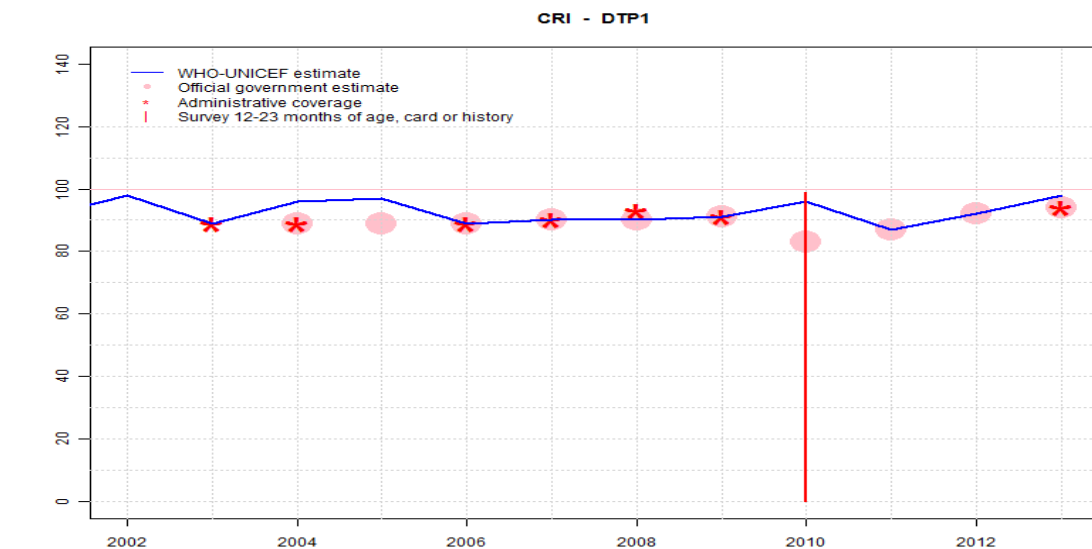
- Estimate is supported by reported data [R+], coverage recalculated with an independent denominator from the World Population Prospects: 2012 revision from the UN Population Division (D+), and at least one supporting survey within 2 years [S+]. While well supported, the estimate still carries a risk 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:

- 2002: Estimate based on coverage reported by national government. GoC=R+
 2003: Estimate based on coverage reported by national government. GoC=R+D+
 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. GoC=R+D+
 2008: Estimate based on coverage reported by national government. Estimate challenged by: S-
 2009: Estimate based on coverage reported by national government. Decline is due to change in BCG vaccination procedure in some hospitals (HIV testing required before vaccination) Estimate challenged by: S-
 2010: Estimate based on coverage reported by national government. Costa Rica Multiple Indicator Cluster Survey 2011 results ignored by working group. Survey results suggest national estimates may be conservative and actual coverage may be higher than reported. Estimate challenged by: S-
 2011: Estimate based on coverage reported by national government. Estimate challenged by: S-
 2012: Estimate based on coverage reported by national government. Estimate challenged by: D-S-
 2013: Estimate based on coverage reported by national government. GoC=R+D+

Costa Rica - DTP1



	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Estimate	98	89	96	97	89	90	90	91	96	87	92	98
Estimate GoC	•	••	•	•	••	••	•	•	•	•	•	•
Official	NA	NA	89	89	89	90	90	91	83	87	92	94
Administrative	NA	89	89	NA	89	90	93	91	NA	NA	NA	94
Survey	NA	NA	NA	NA	NA	NA	NA	NA	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: 2012 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.

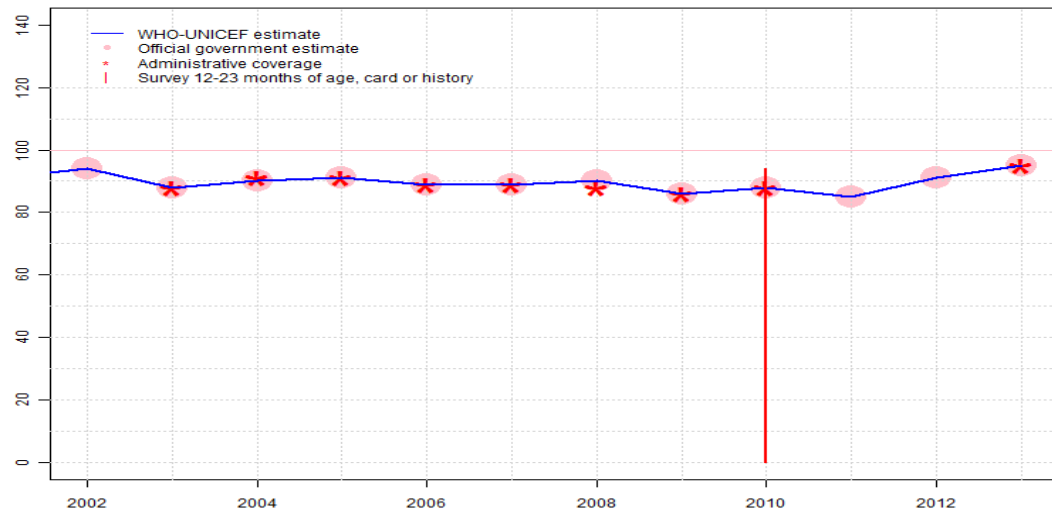
In all cases these estimates should be used with caution and should be assessed in light of the objective for which they are being used.

Description:

- 2002: DTP1 coverage estimated based on DTP3 coverage of 94. GoC=No accepted empirical data
- 2003: Estimate based on reported administrative data. GoC=R+ D+
- 2004: DTP1 coverage estimated based on DTP3 coverage of 90. Estimate challenged by: D-R-
- 2005: DTP1 coverage estimated based on DTP3 coverage of 91. Estimate challenged by: D-R-
- 2006: Estimate based on coverage reported by national government. GoC=R+ D+
- 2007: Estimate based on coverage reported by national government. GoC=R+ D+
- 2008: Estimate based on coverage reported by national government. Estimate challenged by: S-
- 2009: Estimate based on coverage reported by national government. Estimate challenged by: S-
- 2010: DTP1 coverage estimated based on DTP3 coverage of 88. Costa Rica Multiple Indicator Cluster Survey 2011 results ignored by working group. Survey results suggest national estimates may be conservative and actual coverage may be higher than reported. Estimate challenged by: R-S-
- 2011: Estimate based on coverage reported by national government. Estimate challenged by: S-
- 2012: Estimate based on coverage reported by national government. Estimate challenged by: S-
- 2013: DTP1 coverage estimated based on DTP3 coverage of 95. Estimate challenged by: R-

Costa Rica - DTP3

CRI - DTP3



	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Estimate	94	88	90	91	89	89	90	86	88	85	91	95
Estimate GoC	●●	●●	●●	●●	●●	●●	●	●	●	●	●	●●
Official	94	88	90	91	89	89	90	86	88	85	91	95
Administrative	NA	88	91	91	89	89	88	86	88	NA	NA	95
Survey	NA	NA	NA	NA	NA	NA	NA	NA	94	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: 2012 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.

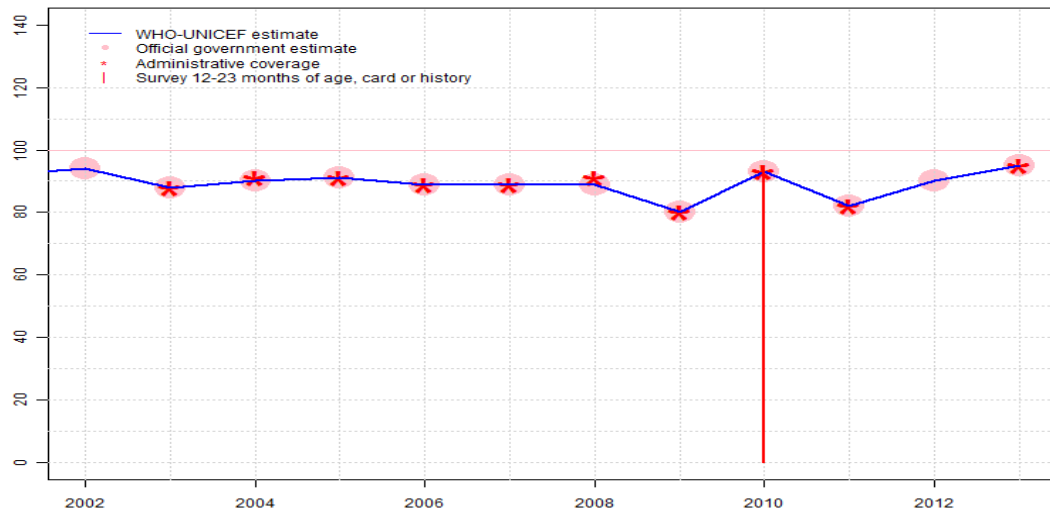
In all cases these estimates should be used with caution and should be assessed in light of the objective for which they are being used.

Description:

- 2002: Estimate based on coverage reported by national government. GoC=R+
- 2003: Estimate based on coverage reported by national government. GoC=R+D+
- 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. GoC=R+D+
- 2008: Estimate based on coverage reported by national government. Estimate challenged by: S-
- 2009: Estimate based on coverage reported by national government. Estimate challenged by: S-
- 2010: Estimate based on coverage reported by national government. Costa Rica Multiple Indicator Cluster Survey 2011 results ignored by working group. Survey results suggest national estimates may be conservative and actual coverage may be higher than reported. Costa Rica Multiple Indicator Cluster Survey 2011 card or history results of 94 percent modified for recall bias to 99 percent based on 1st dose card or history coverage of 99 percent, 1st dose card only coverage of 92 percent and 3d dose card only coverage of 92 percent. Estimate challenged by: S-
- 2011: Estimate based on coverage reported by national government. Estimate challenged by: S-
- 2012: Estimate based on coverage reported by national government. Estimate challenged by: S-
- 2013: Estimate based on coverage reported by national government. GoC=R+D+

Costa Rica - Pol3

CRI - Pol3



	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Estimate	94	88	90	91	89	89	89	80	93	82	90	95
Estimate GoC	••	••	••	••	••	••	•	•	•	•	•	••
Official	94	88	90	91	89	89	89	80	93	82	90	95
Administrative	NA	88	91	91	89	89	91	80	93	82	NA	95
Survey	NA	NA	NA	NA	NA	NA	NA	NA	95	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: 2012 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.

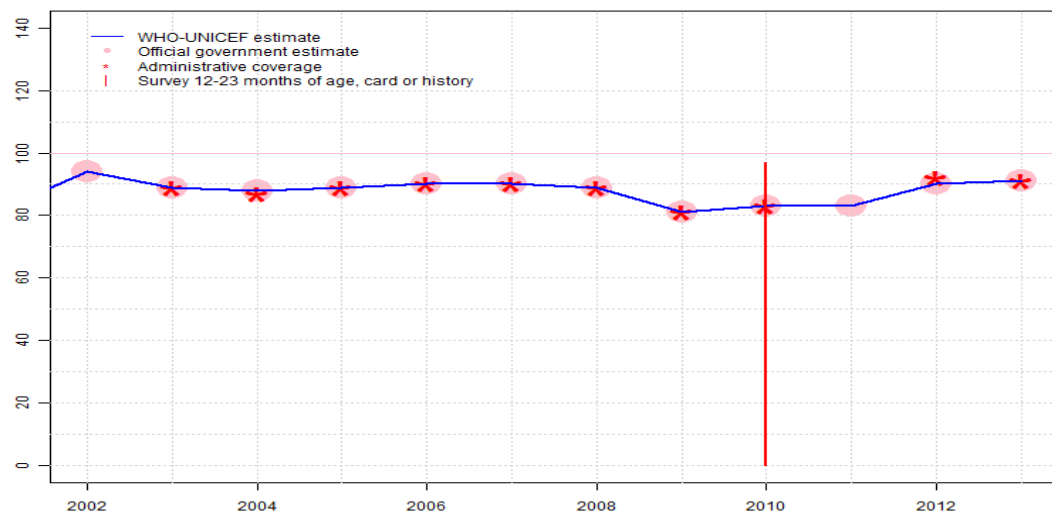
In all cases these estimates should be used with caution and should be assessed in light of the objective for which they are being used.

Description:

- 2002: Estimate based on coverage reported by national government. GoC=R+
- 2003: Estimate based on coverage reported by national government. GoC=R+ D+
- 2004: Estimate based on coverage reported by national government. GoC=R+
- 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. GoC=R+ D+
- 2008: Estimate based on coverage reported by national government. Estimate challenged by: S-
- 2009: Estimate based on coverage reported by national government. Vaccine stock out for 3-6 months Estimate challenged by: S-
- 2010: Estimate based on coverage reported by national government. Costa Rica Multiple Indicator Cluster Survey 2011 results ignored by working group. Survey results suggest national estimates may be conservative and actual coverage may be higher than reported. Costa Rica Multiple Indicator Cluster Survey 2011 card or history results of 95 percent modified for recall bias to 97 percent based on 1st dose card or history coverage of 100 percent, 1st dose card only coverage of 94 percent and 3d dose card only coverage of 91 percent. Increase in coverage most likely a return to 2008 pre-stockout levels. Estimate challenged by: S-
- 2011: Estimate based on coverage reported by national government. Decline in coverage is consistent with patterns in coverage for other antigens. Estimate challenged by: S-
- 2012: Estimate based on coverage reported by national government. Estimate challenged by: S-
- 2013: Estimate based on coverage reported by national government. GoC=R+ D+

Costa Rica - MCV

CRI - MCV



	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Estimate	94	89	88	89	90	90	89	81	83	83	90	91
Estimate GoC	••	••	••	••	••	••	•	•	•	•	•	••
Official	94	89	88	89	90	90	89	81	83	83	90	91
Administrative	NA	89	87	89	90	90	89	81	83	NA	92	91
Survey	NA	NA	NA	NA	NA	NA	NA	NA	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.

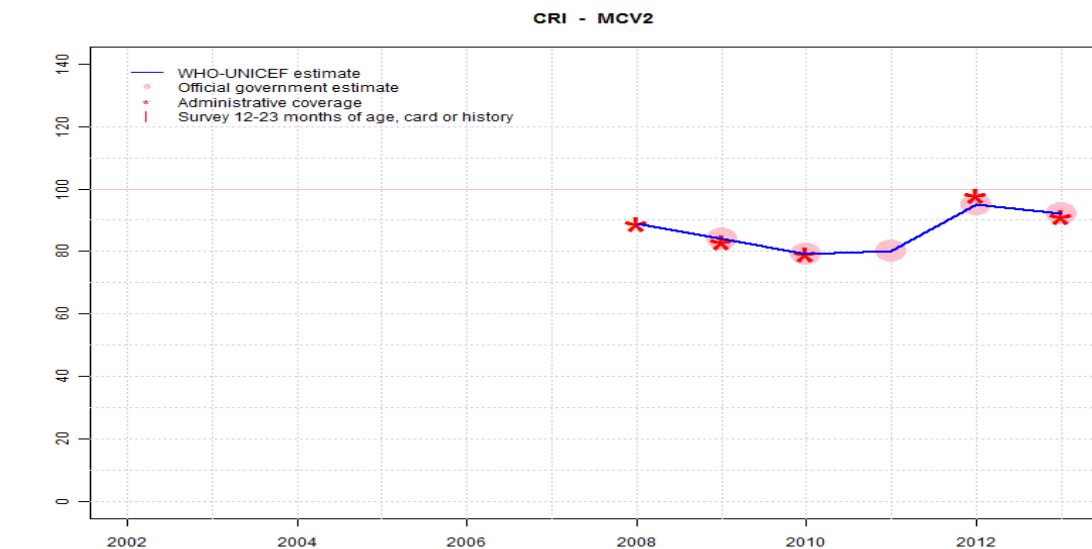
- Estimate is supported by reported data [R+], coverage recalculated with an independent denominator from the World Population Prospects: 2012 revision from the UN Population Division (D+), and at least one supporting survey within 2 years [S+]. While well supported, the estimate still carries a risk 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:

- 2002: Estimate based on coverage reported by national government. GoC=R+
 2003: Estimate based on coverage reported by national government. GoC=R+
 2004: Estimate based on coverage reported by national government. GoC=R+
 2005: Estimate based on coverage reported by national government. GoC=R+
 2006: Estimate based on coverage reported by national government. GoC=R+
 2007: Estimate based on coverage reported by national government. GoC=R+
 2008: Estimate based on coverage reported by national government. Estimate challenged by: S-
 2009: Estimate based on coverage reported by national government. Estimate challenged by: S-
 2010: Estimate based on coverage reported by national government. Costa Rica Multiple Indicator Cluster Survey 2011 results ignored by working group. Survey results suggest national estimates may be conservative and actual coverage may be higher than reported. Estimate challenged by: S-
 2011: Estimate based on coverage reported by national government. Estimate challenged by: S-
 2012: Estimate based on coverage reported by national government. Estimate challenged by: S-
 2013: Estimate based on coverage reported by national government. GoC=R+
 D+

Costa Rica - MCV2



	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Estimate	NA	NA	NA	NA	NA	NA	89	84	79	80	95	92
Estimate GoC	NA	NA	NA	NA	NA	NA	●	●	●	●	●	●●
Official	NA	NA	NA	NA	NA	NA	NA	84	79	80	95	92
Administrative	NA	NA	NA	NA	NA	NA	89	83	79	NA	98	91
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: 2012 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.

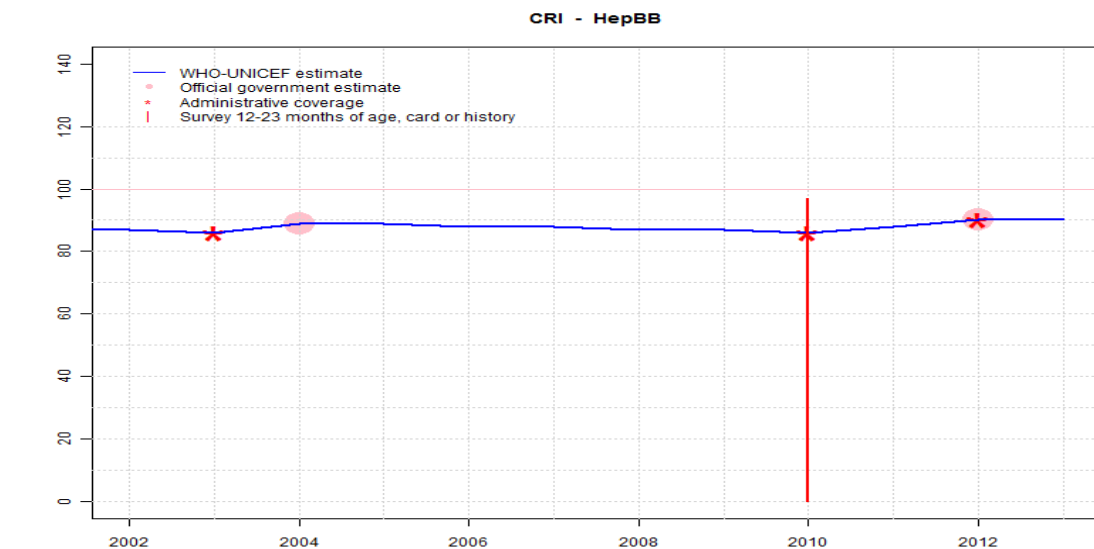
In all cases these estimates should be used with caution and should be assessed in light of the objective for which they are being used.

Description:

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

- 2008: Estimate based on reported administrative estimate. Estimate challenged by: S-
- 2009: Estimate based on coverage reported by national government. Estimate challenged by: S-
- 2010: Estimate based on coverage reported by national government. Estimate challenged by: S-
- 2011: Estimate based on coverage reported by national government. Estimate challenged by: S-
- 2012: Estimate based on coverage reported by national government. Estimate challenged by: S-
- 2013: Estimate based on coverage reported by national government. GoC=R+D+

Costa Rica - HepBB



	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Estimate	87	86	89	89	88	88	87	87	86	88	90	90
Estimate GoC	•	••	••	•	•	•	•	•	•	•	•	•
Official	NA	NA	89	NA	NA	NA	NA	NA	NA	NA	90	NA
Administrative	NA	86	NA	NA	NA	NA	NA	NA	86	NA	90	NA
Survey	NA	NA	NA	NA	NA	NA	NA	NA	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: 2012 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.

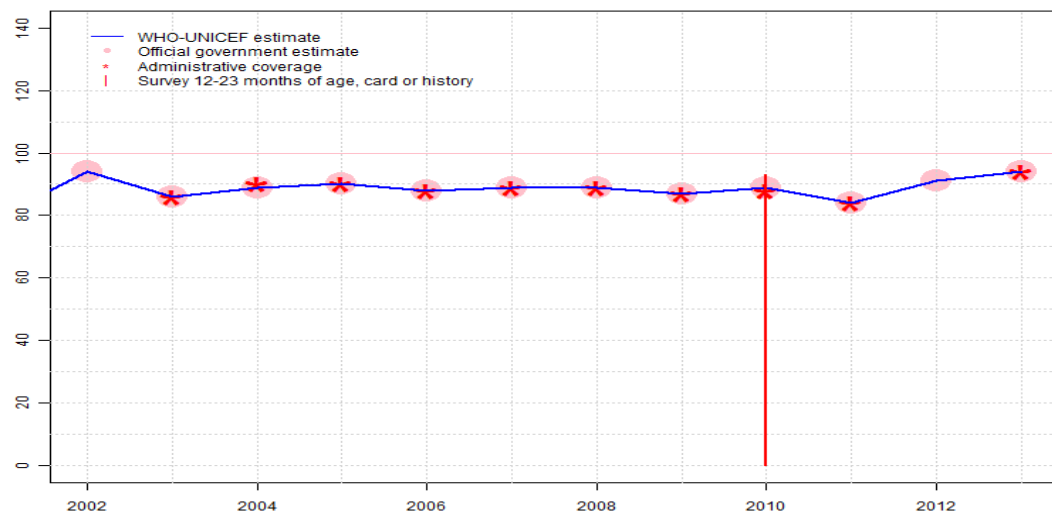
In all cases these estimates should be used with caution and should be assessed in light of the objective for which they are being used.

Description:

- 2002: Estimate based on interpolation between reported values. GoC=No accepted empirical data
- 2003: Estimate based on reported administrative estimate. GoC=R+
- 2004: Estimate based on coverage reported by national government. GoC=R+
- 2005: Estimate based on interpolation between reported values. GoC=No accepted empirical data
- 2006: Estimate based on interpolation between reported values. GoC=No accepted empirical data
- 2007: Estimate based on interpolation between reported values. GoC=No accepted empirical data
- 2008: Estimate based on interpolation between reported values. Estimate challenged by: S-
- 2009: Estimate based on interpolation between reported values. Estimate challenged by: S-
- 2010: Estimate based on reported administrative estimate. Costa Rica Multiple Indicator Cluster Survey 2011 results ignored by working group. Survey results suggest national estimates may be conservative and actual coverage may be higher than reported. Estimate challenged by: S-
- 2011: Estimate based on interpolation between reported values. Estimate challenged by: S-
- 2012: Estimate based on coverage reported by national government. Estimate challenged by: S-
- 2013: Estimate based on extrapolation from data reported by national government. GoC=No accepted empirical data

Costa Rica - HepB3

CRI - HepB3



	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Estimate	94	86	89	90	88	89	89	87	89	84	91	94
Estimate GoC	●●	●●	●●	●●	●●	●●	●	●	●	●	●	●●
Official	94	86	89	90	88	89	89	87	89	84	91	94
Administrative	NA	86	90	90	88	89	89	87	88	84	NA	94
Survey	NA	NA	NA	NA	NA	NA	NA	NA	93	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: 2012 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.

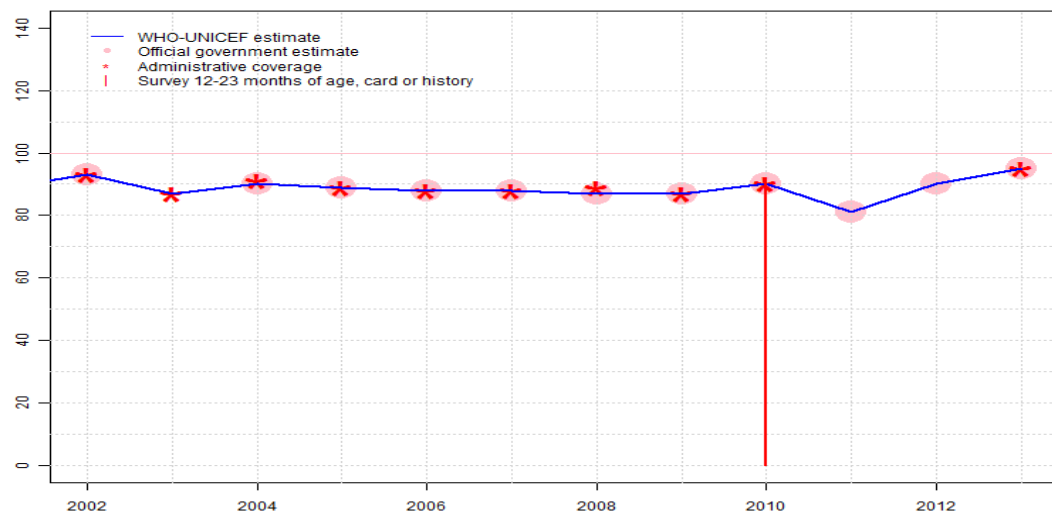
In all cases these estimates should be used with caution and should be assessed in light of the objective for which they are being used.

Description:

- 2002: Estimate based on coverage reported by national government. GoC=R+
 2003: Estimate based on coverage reported by national government. GoC=R+D+
 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. GoC=R+D+
 2008: Estimate based on coverage reported by national government. Estimate challenged by: S-
 2009: Estimate based on coverage reported by national government. Estimate challenged by: S-
 2010: Estimate based on coverage reported by national government. Costa Rica Multiple Indicator Cluster Survey 2011 results ignored by working group. Survey results suggest national estimates may be conservative and actual coverage may be higher than reported. Estimate challenged by: S-
 2011: Estimate based on coverage reported by national government. Estimate challenged by: S-
 2012: Estimate based on coverage reported by national government. Estimate challenged by: S-
 2013: Estimate based on coverage reported by national government. GoC=R+D+

Costa Rica - Hib3

CRI - Hib3



	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Estimate	93	87	90	89	88	88	87	87	90	81	90	95
Estimate GoC	••	••	••	••	••	••	•	•	•	•	•	••
Official	93	NA	90	89	88	88	87	87	90	81	90	95
Administrative	93	87	91	89	88	88	89	87	90	NA	NA	95
Survey	NA	NA	NA	NA	NA	NA	NA	NA	92	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.

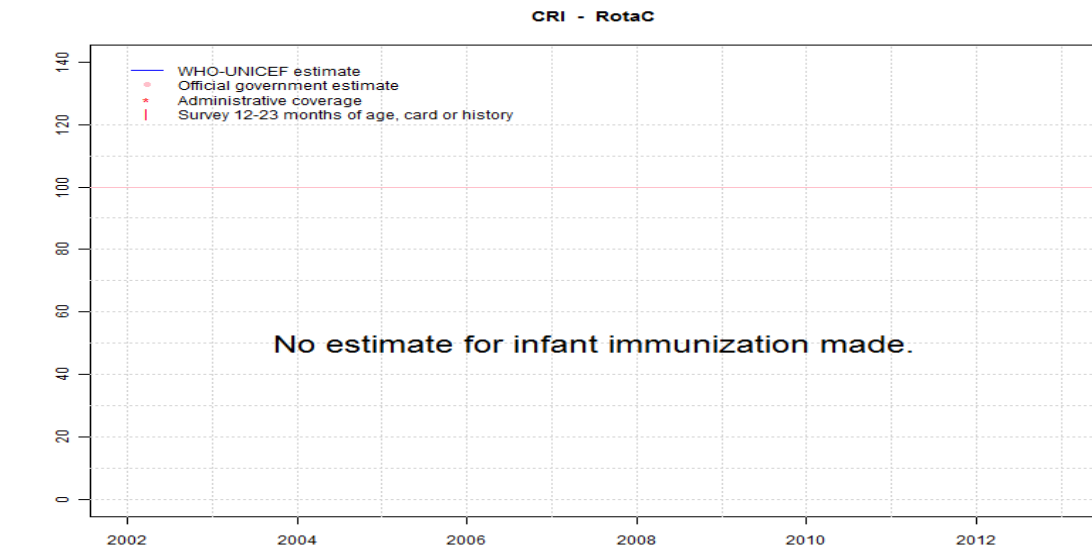
- Estimate is supported by reported data [R+], coverage recalculated with an independent denominator from the World Population Prospects: 2012 revision from the UN Population Division (D+), and at least one supporting survey within 2 years [S+]. While well supported, the estimate still carries a risk 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:

- 2002: Estimate based on coverage reported by national government. GoC=R+
- 2003: Estimate based on reported administrative estimate. GoC=R+ D+
- 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. GoC=R+ D+
- 2008: Estimate based on coverage reported by national government. Estimate challenged by: S-
- 2009: Estimate based on coverage reported by national government. Estimate challenged by: S-
- 2010: Estimate based on coverage reported by national government. Costa Rica Multiple Indicator Cluster Survey 2011 results ignored by working group. Survey results suggest national estimates may be conservative and actual coverage may be higher than reported. Costa Rica Multiple Indicator Cluster Survey 2011 card or history results of 92 percent modified for recall bias to 94 percent based on 1st dose card or history coverage of 97 percent, 1st dose card only coverage of 94 percent and 3d dose card only coverage of 91 percent. Estimate challenged by: S-
- 2011: Estimate based on coverage reported by national government. Decline in coverage is consistent with patterns in coverage for other antigens. Estimate challenged by: S-
- 2012: Estimate based on coverage reported by national government. Estimate challenged by: S-
- 2013: Estimate based on coverage reported by national government. GoC=R+ D+

Costa Rica - RotaC



	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
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

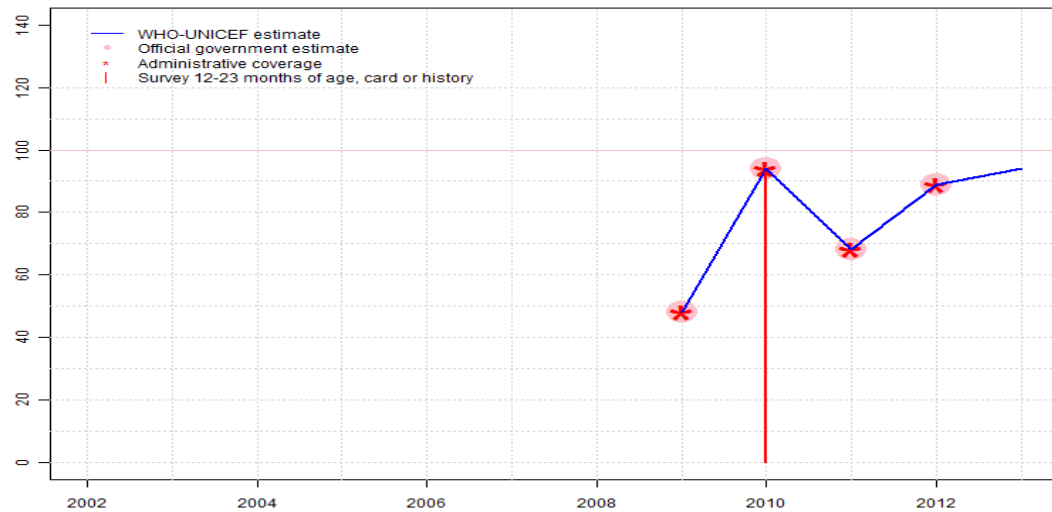
The WHO and UNICEF estimates of national immunization coverage (wuenic) are based on data and information that are of varying, and, in some instances, unknown quality. Beginning with the 2011 revision we describe the grade of confidence (GoC) we have in these estimates. As there is no underlying probability 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: 2012 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.

Costa Rica - PcV3

CRI - PcV3



	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Estimate	NA	NA	NA	NA	NA	NA	NA	48	94	68	89	94
Estimate GoC	NA	NA	NA	NA	NA	NA	NA	•	•	•	•	•
Official	NA	NA	NA	NA	NA	NA	NA	48	94	68	89	NA
Administrative	NA	NA	NA	NA	NA	NA	NA	48	94	68	89	NA
Survey	NA	NA	NA	NA	NA	NA	NA	NA	93	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: 2012 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:

- 2009: Estimate based on coverage reported by national government. Estimate challenged by: S-
- 2010: Estimate based on coverage reported by national government. Costa Rica Multiple Indicator Cluster Survey 2011 results ignored by working group. Survey results suggest national estimates may be conservative and actual coverage may be higher than reported.. Estimate challenged by: S-
- 2011: Estimate based on coverage reported by national government. Vaccine stock-out for 1 month. Estimate challenged by: S-
- 2012: Estimate based on coverage reported by national government. Estimate challenged by: S-
- 2013: Presentation changed from a 3+1 (2,4,6 months and 15 months of age) dose, 7 valent presentation to a 2+1 (2,4 months and 15 months of age) dose, 13 valent presentation in 2012. The WHO and UNICEF estimates is based on the second dose of PcV. GoC=No accepted empirical data

Costa Rica - survey details

2010 Costa Rica Encuesta de Indicadores Múltiples por Conglom- erados 2011

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	C or H <12 months	100	18-29 m	437	94
BCG	Card	93	18-29 m	-	94
BCG	Card or History	100	18-29 m	437	94
BCG	History	7	18-29 m	-	94
DTP1	C or H <12 months	96	18-29 m	437	94
DTP1	Card	92	18-29 m	-	94
DTP1	Card or History	99	18-29 m	437	94
DTP1	History	6	18-29 m	-	94
DTP3	C or H <12 months	92	18-29 m	437	94
DTP3	Card	92	18-29 m	-	94
DTP3	Card or History	94	18-29 m	437	94
DTP3	History	2	18-29 m	-	94
HepB1	C or H <12 months	97	18-29 m	437	94
HepB1	Card	96	18-29 m	-	94
HepB1	Card or History	98	18-29 m	437	94
HepB1	History	3	18-29 m	-	94
HepB3	C or H <12 months	89	18-29 m	437	94
HepB3	Card	91	18-29 m	-	94
HepB3	Card or History	93	18-29 m	437	94
HepB3	History	2	18-29 m	-	94
HepBB	C or H <12 months	97	18-29 m	437	94
HepBB	Card	94	18-29 m	-	94

HepBB	Card or History	97	18-29 m	437	94
HepBB	History	3	18-29 m	-	94
Hib1	C or H <12 months	96	18-29 m	437	94
Hib1	Card	94	18-29 m	-	94
Hib1	Card or History	97	18-29 m	437	94
Hib1	History	4	18-29 m	-	94
Hib3	C or H <12 months	88	18-29 m	437	94
Hib3	Card	91	18-29 m	-	94
Hib3	Card or History	92	18-29 m	437	94
Hib3	History	2	18-29 m	-	94
MCV	C or H <18 months	93	18-29 m	437	94
MCV	Card	92	18-29 m	-	94
MCV	Card or History	97	18-29 m	437	94
MCV	History	6	18-29 m	-	94
PcV3	C or H <12 months	89	18-29 m	437	94
PcV3	Card	91	18-29 m	-	94
PcV3	Card or History	93	18-29 m	437	94
PcV3	History	2	18-29 m	-	94
Pol1	C or H <12 months	99	18-29 m	437	94
Pol1	Card	94	18-29 m	-	94
Pol1	Card or History	100	18-29 m	437	94
Pol1	History	6	18-29 m	-	94
Pol3	C or H <12 months	93	18-29 m	437	94
Pol3	Card	91	18-29 m	-	94
Pol3	Card or History	95	18-29 m	437	94
Pol3	History	4	18-29 m	-	94

Further information and estimates prior to 2002 are available at:

<http://www.data.unicef.org/child-health/immunization>

http://www.who.int/immunization/monitoring_surveillance/routine/coverage/en/index4.html