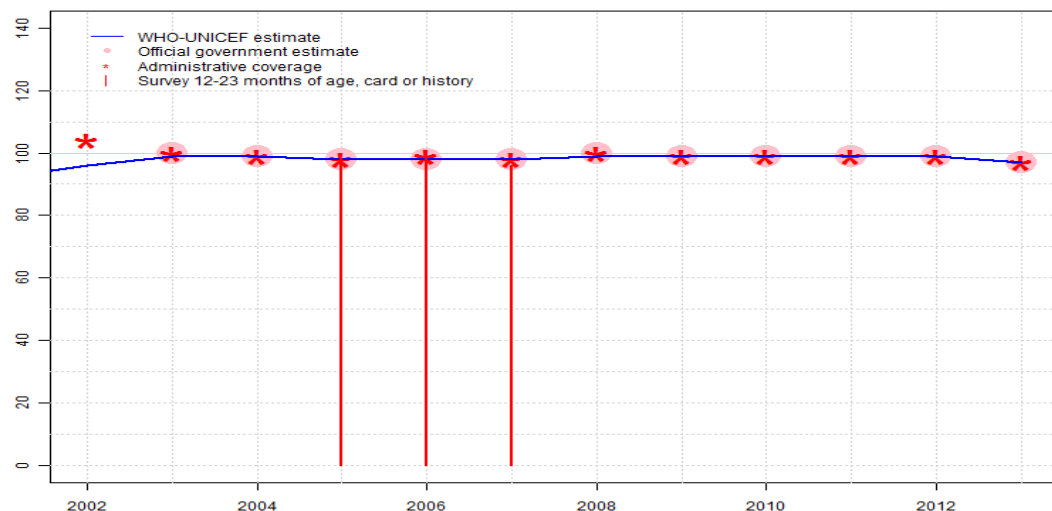


Sao Tome and Principe - BCG

STP - BCG



	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Estimate	96	99	99	98	98	98	99	99	99	99	99	97
Estimate GoC	●●	●	●	●	●●●	●●●	●	●	●	●	●	●●
Official	NA	100	99	98	98	98	100	99	99	99	99	97
Administrative	104	100	99	98	99	98	100	99	99	99	99	97
Survey	NA	NA	NA	98.2	99.5	96.1	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.

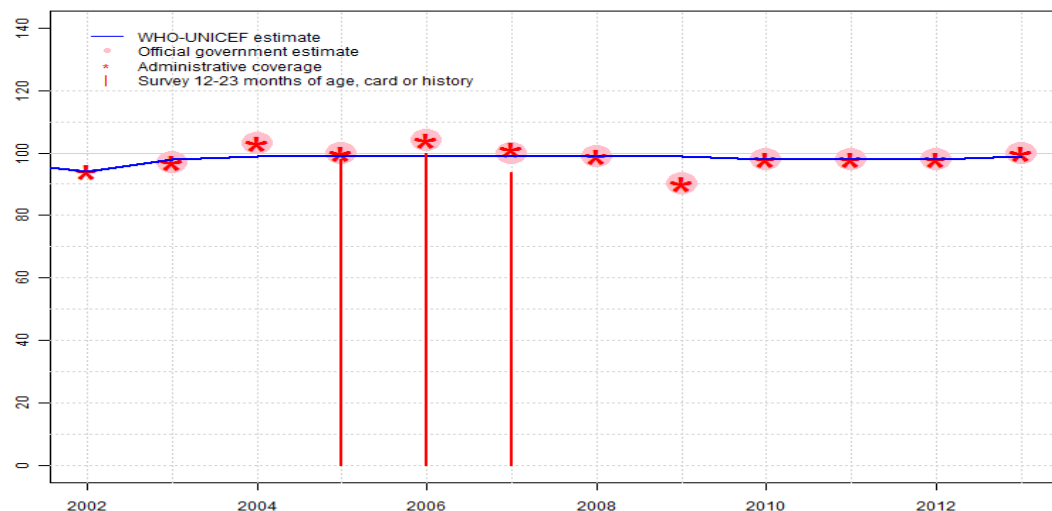
In all cases these estimates should be used with caution and should be assessed in light of the objective for which they are being used.

Description:

- 2002: Estimate based on interpolation between coverage reported by national government. Reported data excluded. 104 percent greater than 100 percent. GoC=D+
- 2003: Estimate based on coverage reported by national government. Estimate challenged by: D-
- 2004: Estimate based on coverage reported by national government. Estimate challenged by: D-
- 2005: Estimate based on coverage reported by national government supported by survey. Survey evidence of 98 percent based on 1 survey(s). Estimate challenged by: D-
- 2006: Estimate based on coverage reported by national government. Survey results ignored. Sample size 220 less than 300. GoC=R+ S+ D+
- 2007: 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+
- 2008: Estimate based on coverage reported by national government. 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. Estimate challenged by: 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. No nationally representative household survey within the last 5 years. WHO and UNICEF recommend a high-quality survey to confirm reported levels of coverage. GoC=R+ D+

Sao Tome and Principe - DTP1

STP - DTP1



	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Estimate	94	98	99	99	99	99	99	99	98	98	98	99
Estimate GoC	••	••	••	•••	••	•••	•	•	•	•	••	••
Official	NA	97	103	100	104	100	99	90	98	98	98	100
Administrative	94	97	103	100	104	101	99	90	98	98	98	100
Survey	NA	NA	NA	97.9	100	93.6	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.

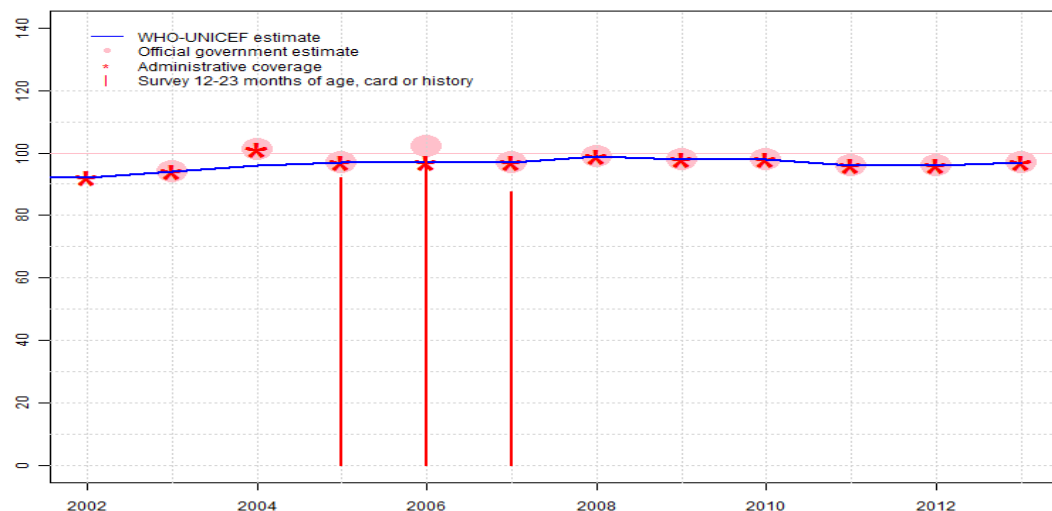
In all cases these estimates should be used with caution and should be assessed in light of the objective for which they are being used.

Description:

- 2002: Reported data calibrated to 1997 and 2005 levels. GoC=D+
- 2003: Reported data calibrated to 1997 and 2005 levels. GoC=S+ D+
- 2004: Reported data calibrated to 1997 and 2005 levels. Reported data excluded. 103 percent greater than 100 percent. GoC=S+ D+
- 2005: Estimate based on coverage reported by national government supported by survey. Survey evidence of 98 percent based on 1 survey(s). GoC=R+ S+ D+
- 2006: Estimate based on interpolation between coverage reported by national government. Survey results ignored. Sample size 220 less than 300. Reported data excluded. 104 percent greater than 100 percent. GoC=S+ D+
- 2007: Estimate based on coverage reported by national government supported by survey. Survey evidence of 94 percent based on 1 survey(s). GoC=R+ S+ D+
- 2008: Estimate based on coverage reported by national government. Estimate challenged by: D-
- 2009: DTP1 coverage estimated based on DTP3 coverage of 98. Estimate challenged by: D-R-
- 2010: Estimate based on coverage reported by national government. Estimate challenged by: D-
- 2011: Estimate based on coverage reported by national government. Estimate challenged by: D-
- 2012: Estimate based on coverage reported by national government. GoC=R+ D+
- 2013: Estimate based on coverage reported by national government. No nationally representative household survey within the last 5 years. WHO and UNICEF recommend a high-quality survey to confirm reported levels of coverage. GoC=R+ D+

Sao Tome and Principe - DTP3

STP - DTP3



	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Estimate	92	94	96	97	97	97	99	98	98	96	96	97
Estimate GoC	••	•••	••	•••	••	•••	•	•	•	•	••	••
Official	NA	94	101	97	102	97	99	98	98	96	96	97
Administrative	92	94	101	97	97	97	99	98	98	96	96	97
Survey	NA	NA	NA	92.1	98.6	87.4	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.

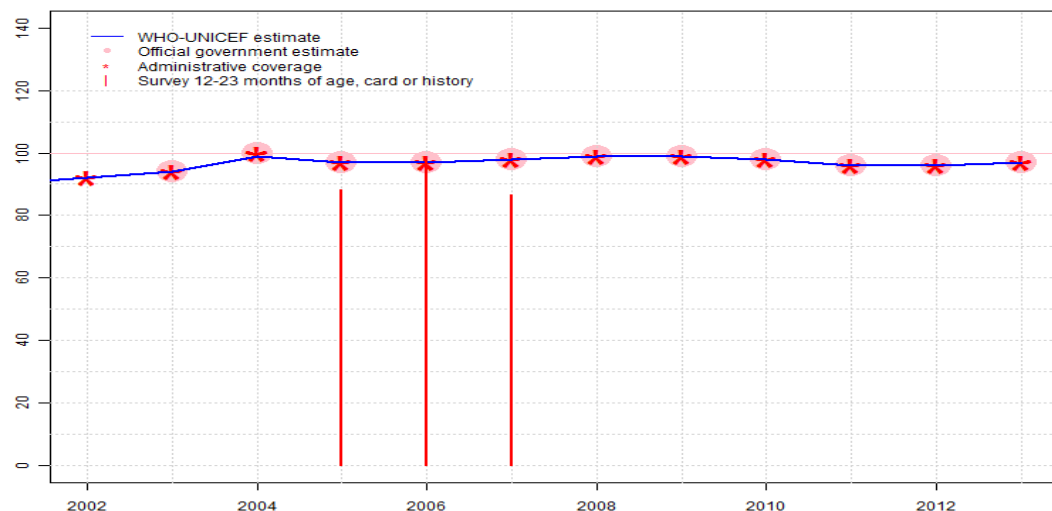
In all cases these estimates should be used with caution and should be assessed in light of the objective for which they are being used.

Description:

- 2002: Estimate based on reported administrative data. GoC=R+ D+
- 2003: Estimate based on coverage reported by national government. GoC=R+ S+ D+
- 2004: Estimate based on interpolation between coverage reported by national government. Reported data excluded. 101 percent greater than 100 percent. GoC=S+ D+
- 2005: Estimate based on coverage reported by national government supported by survey. Survey evidence of 94 percent based on 1 survey(s). The 2006 São Tomé e Príncipe Multiple Indicator Cluster Survey: Final Report card or history results of 92 percent modified for recall bias to 94 percent based on 1st dose card or history coverage of 98 percent, 1st dose card only coverage of 91 percent and 3d dose card only coverage of 88 percent. GoC=R+ S+ D+
- 2006: Estimate based on interpolation between coverage reported by national government. Survey results ignored. Sample size 220 less than 300. Enquête nationale de couverture vaccinale 2007 card or history results of 99 percent modified for recall bias to 99 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 96 percent. Reported data excluded. 102 percent greater than 100 percent. GoC=S+ D+
- 2007: Estimate based on coverage reported by national government supported by survey. Survey evidence of 89 percent based on 1 survey(s). Sao Tome and Principe Demographic and Health Survey 2008-2009 card or history results of 87 percent modified for recall bias to 89 percent based on 1st dose card or history coverage of 94 percent, 1st dose card only coverage of 90 percent and 3d dose card only coverage of 86 percent. GoC=R+ S+ D+
- 2008: Estimate based on coverage reported by national government. 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. Estimate challenged by: D-
- 2011: Estimate based on coverage reported by national government. Estimate challenged by: D-
- 2012: Estimate based on coverage reported by national government. GoC=R+ D+
- 2013: Estimate based on coverage reported by national government. No nationally representative household survey within the last 5 years. WHO and UNICEF recommend a high-quality survey to confirm reported levels of coverage. GoC=R+ D+

Sao Tome and Principe - Pol3

STP - Pol3



	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Estimate	92	94	99	97	97	98	99	99	98	96	96	97
Estimate GoC	••	•••	•	•••	•••	•••	•	•	•	•	••	••
Official	NA	94	100	97	97	98	99	99	98	96	96	97
Administrative	92	94	100	97	97	98	99	99	98	96	96	97
Survey	NA	NA	NA	88.1	98.2	86.7	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.

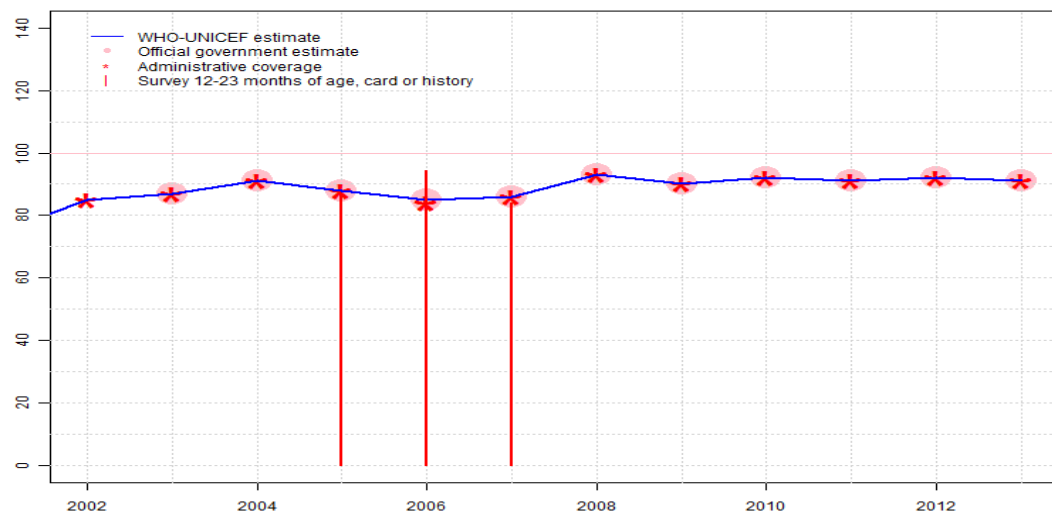
In all cases these estimates should be used with caution and should be assessed in light of the objective for which they are being used.

Description:

- 2002: Estimate based on reported administrative data. GoC=R+ D+
- 2003: Estimate based on coverage reported by national government. GoC=R+ S+ D+
- 2004: Estimate based on coverage reported by national government. Estimate challenged by: D-
- 2005: Estimate based on coverage reported by national government supported by survey. Survey evidence of 93 percent based on 1 survey(s). The 2006 São Tomé e Príncipe Multiple Indicator Cluster Survey: Final Report card or history results of 88 percent modified for recall bias to 93 percent based on 1st dose card or history coverage of 97 percent, 1st dose card only coverage of 91 percent and 3d dose card only coverage of 88 percent. GoC=R+ S+ D+
- 2006: Estimate based on coverage reported by national government. Survey results ignored. Sample size 220 less than 300. Enquête nationale de couverture vaccinale 2007 card or history results of 98 percent modified for recall bias to 98 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 96 percent. GoC=R+ S+ D+
- 2007: Estimate based on coverage reported by national government supported by survey. Survey evidence of 89 percent based on 1 survey(s). Sao Tome and Principe Demographic and Health Survey 2008-2009 card or history results of 87 percent modified for recall bias to 89 percent based on 1st dose card or history coverage of 95 percent, 1st dose card only coverage of 91 percent and 3d dose card only coverage of 86 percent. GoC=R+ S+ D+
- 2008: Estimate based on coverage reported by national government. 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. Estimate challenged by: D-
- 2011: Estimate based on coverage reported by national government. Estimate challenged by: D-
- 2012: Estimate based on coverage reported by national government. GoC=R+ D+
- 2013: Estimate based on coverage reported by national government. No nationally representative household survey within the last 5 years. WHO and UNICEF recommend a high-quality survey to confirm reported levels of coverage. GoC=R+ D+

Sao Tome and Principe - MCV

STP - MCV



	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Estimate	85	87	91	88	85	86	93	90	92	91	92	91
Estimate GoC	••	•••	•	•••	•••	•••	•	•	•	•	••	••
Official	NA	87	91	88	85	86	93	90	92	91	92	91
Administrative	85	87	91	88	84	86	93	90	92	91	92	91
Survey	NA	NA	NA	86.9	94.5	84	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.

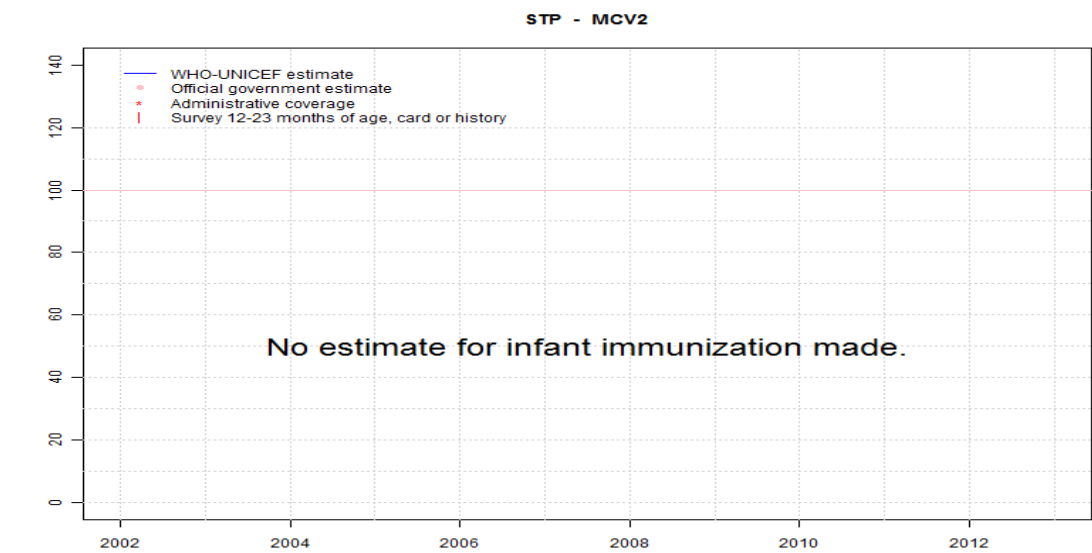
- Estimate is supported by reported data [R+], coverage recalculated with an independent denominator from the World Population Prospects: 2012 revision from the UN Population Division (D+), and at least one supporting survey within 2 years [S+]. While well supported, the estimate still carries a risk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

- 2002: Estimate based on reported administrative data. GoC=R+ D+
- 2003: Estimate based on coverage reported by national government. GoC=R+ S+ D+
- 2004: Estimate based on coverage reported by national government. Estimate challenged by: D-
- 2005: Estimate based on coverage reported by national government supported by survey. Survey evidence of 87 percent based on 1 survey(s). GoC=R+ S+ D+
- 2006: Estimate based on coverage reported by national government. Survey results ignored. Sample size 220 less than 300. GoC=R+ S+ D+
- 2007: Estimate based on coverage reported by national government supported by survey. Survey evidence of 84 percent based on 1 survey(s). GoC=R+ S+ D+
- 2008: Estimate based on coverage reported by national government. 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. Estimate challenged by: D-
- 2011: Estimate based on coverage reported by national government. Estimate challenged by: D-
- 2012: Estimate based on coverage reported by national government. GoC=R+ D+
- 2013: Estimate based on coverage reported by national government. No nationally representative household survey within the last 5 years. WHO and UNICEF recommend a high-quality survey to confirm reported levels of coverage. GoC=R+ D+

Sao Tome and Principe - MCV2

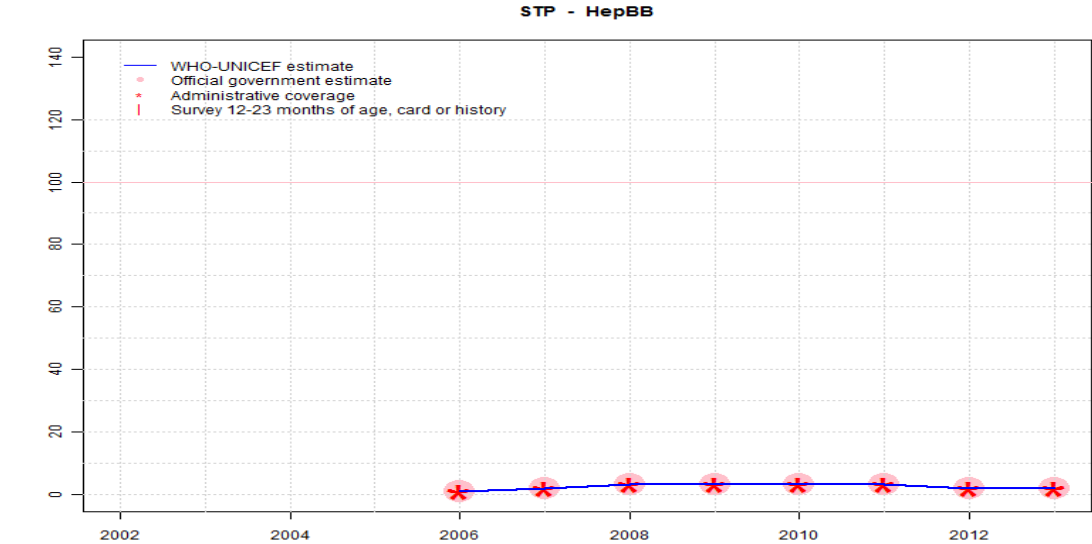


	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Estimate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Estimate GoC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Official	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Administrative	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Survey	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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.



	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Estimate	NA	NA	NA	NA	1	2	3	3	3	3	2	2
Estimate GoC	NA	NA	NA	NA	••	••	••	••	••	••	••	••
Official	NA	NA	NA	NA	1	2	3	3	3	3	2	2
Administrative	NA	NA	NA	NA	1	2	3	3	3	3	2	2
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.

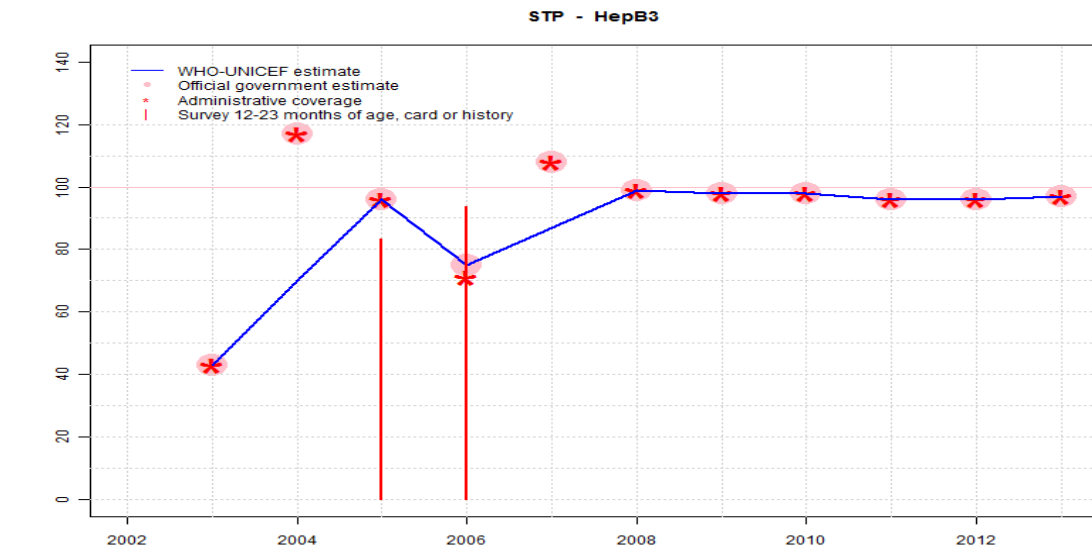
- Estimate is supported by reported data [R+], coverage recalculated with an independent denominator from the World Population Prospects: 2012 revision from the UN Population Division (D+), and at least one supporting survey within 2 years [S+]. While well supported, the estimate still carries a risk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

- 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. GoC=R+ 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. GoC=R+ D+
- 2012: Estimate based on coverage reported by national government. GoC=R+ D+
- 2013: Estimate based on coverage reported by national government. No nationally representative household survey within the last 5 years. WHO and UNICEF recommend a high-quality survey to confirm reported levels of coverage. GoC=R+ D+

Sao Tome and Principe - HepB3



	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Estimate	NA	43	70	96	75	87	99	98	98	96	96	97
Estimate GoC	NA	•	•	•	•	•	•	•	•	•	••	••
Official	NA	43	117	96	75	108	99	98	98	96	96	97
Administrative	NA	43	117	96	71	108	99	98	98	96	96	97
Survey	NA	NA	NA	83.2	93.6	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.

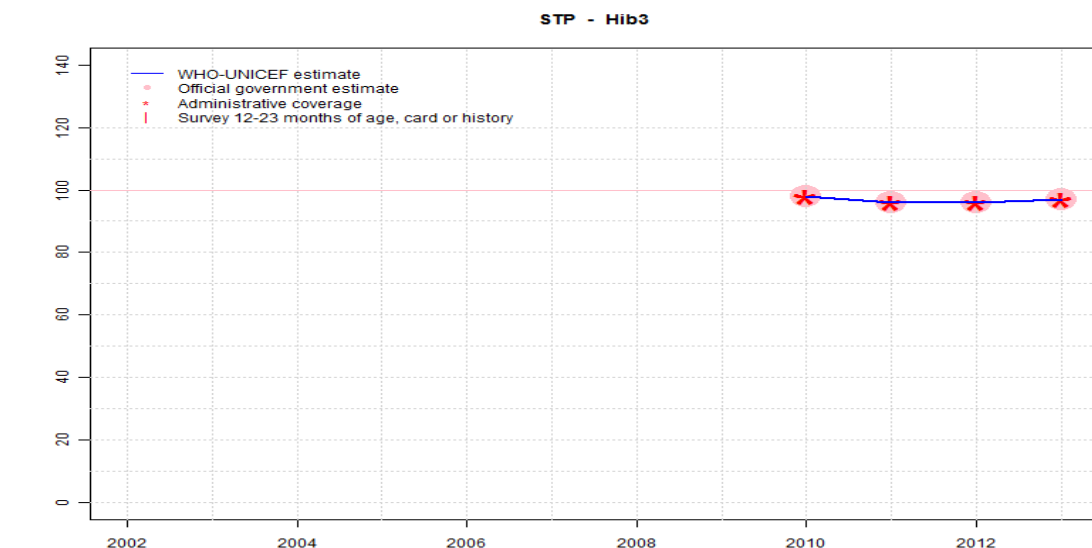
- Estimate is supported by reported data [R+], coverage recalculated with an independent denominator from the World Population Prospects: 2012 revision from the UN Population Division (D+), and at least one supporting survey within 2 years [S+]. While well supported, the estimate still carries a risk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

- 2003: Estimate based on coverage reported by national government. HepB vaccine introduced in 2003 Estimate challenged by: S-
- 2004: Estimate based on interpolation between reported values. Reported data excluded. 117 percent greater than 100 percent. Reported data excluded. Unexplained increase from 43 percent to 117 percent with decrease 96 percent. Estimate challenged by: D-S-
- 2005: Estimate based on coverage reported by national government. The 2006 São Tomé e Príncipe Multiple Indicator Cluster Survey: Final Report results ignored by working group. Survey supports reported data for all other antigens. The 2006 São Tomé e Príncipe Multiple Indicator Cluster Survey: Final Report card or history results of 83 percent modified for recall bias to 83 percent based on 1st dose card or history coverage of 88 percent, 1st dose card only coverage of 88 percent and 3d dose card only coverage of 83 percent. Estimate challenged by: S-
- 2006: Estimate based on coverage reported by national government. Survey results ignored. Sample size 220 less than 300. Enquête nationale de couverture vaccinale 2007 card or history results of 94 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. Decline is due to eight months vaccine stock out. Estimate challenged by: S-
- 2007: Estimate based on interpolation between reported values. Reported data excluded. 108 percent greater than 100 percent. Estimate challenged by: D-S-
- 2008: Estimate based on coverage reported by national government. 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. Estimate challenged by: D-
- 2011: Estimate based on coverage reported by national government. Estimate challenged by: D-
- 2012: Estimate based on coverage reported by national government. GoC=R+ D+
- 2013: Estimate based on coverage reported by national government. No nationally representative household survey within the last 5 years. WHO and UNICEF recommend a high-quality survey to confirm reported levels of coverage. GoC=R+ D+

Sao Tome and Principe - Hib3



	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Estimate	NA	NA	NA	NA	NA	NA	NA	NA	98	96	96	97
Estimate GoC	NA	NA	NA	NA	NA	NA	NA	NA	•	•	••	••
Official	NA	NA	NA	NA	NA	NA	NA	NA	98	96	96	97
Administrative	NA	NA	NA	NA	NA	NA	NA	NA	98	96	96	97
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.

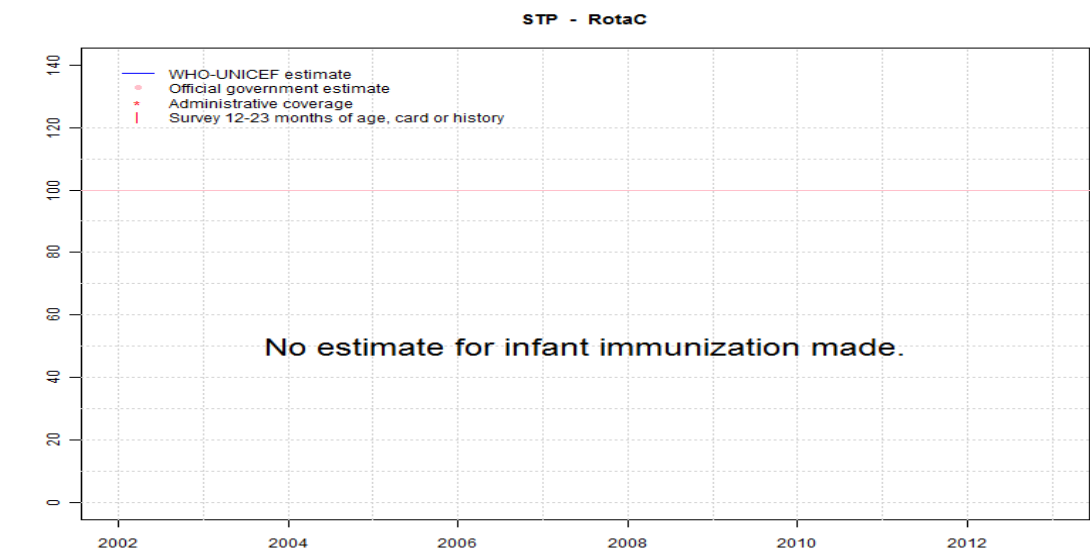
- Estimate is supported by reported data [R+], coverage recalculated with an independent denominator from the World Population Prospects: 2012 revision from the UN Population Division (D+), and at least one supporting survey within 2 years [S+]. While well supported, the estimate still carries a risk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

- 2010: Estimate based on coverage reported by national government. DTP-HepB-Hib pentavalent vaccine introduced in 2009; reporting begin in 2010. Estimate challenged by: D-
- 2011: Estimate based on coverage reported by national government. Estimate challenged by: D-
- 2012: Estimate based on coverage reported by national government. GoC=R+ D+
- 2013: Estimate based on coverage reported by national government. No nationally representative household survey within the last 5 years. WHO and UNICEF recommend a high-quality survey to confirm reported levels of coverage. GoC=R+ D+

Sao Tome and Principe - RotaC



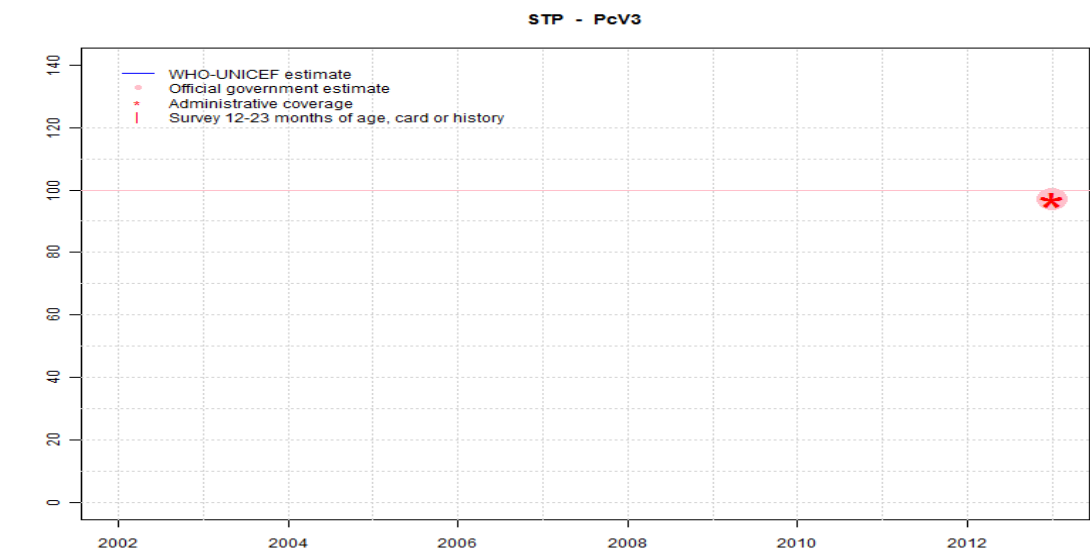
	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Estimate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Estimate GoC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Official	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Administrative	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Survey	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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.

Sao Tome and Principe - PcV3



Description:

2013: Estimate based on coverage reported by national government. No nationally representative household survey within the last 5 years. WHO and UNICEF recommend a high-quality survey to confirm reported levels of coverage. Pneumococcal conjugate vaccine introduced in 2012. National reporting began in 2013. GoC=R+ D+

	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Estimate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	97
Estimate GoC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	●●
Official	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	97
Administrative	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	97
Survey	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

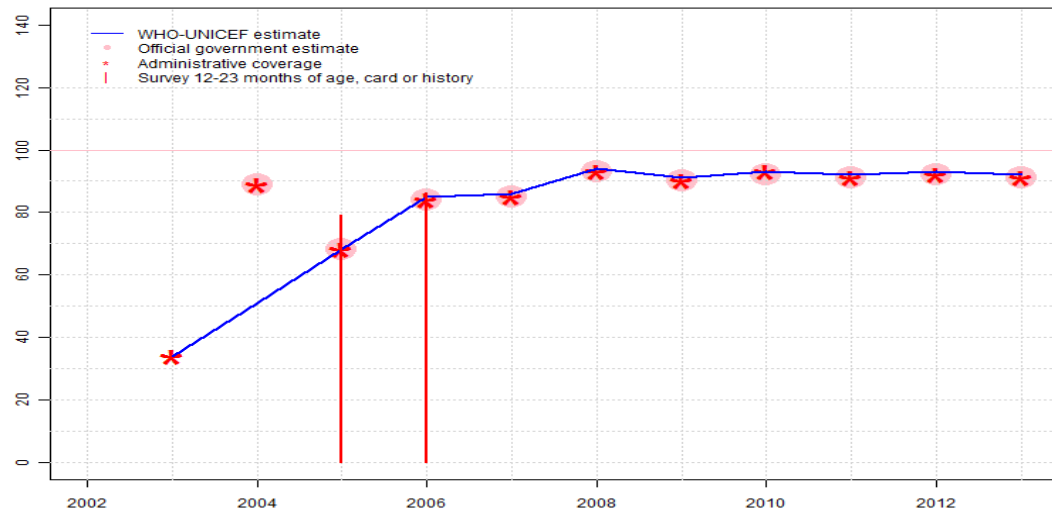
The WHO and UNICEF estimates of national immunization coverage (wuenic) are based on data and information that are of varying, and, in some instances, unknown quality. Beginning with the 2011 revision we describe the grade of confidence (GoC) we have in these estimates. As there is no underlying probability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

Sao Tome and Principe - YFV

STP - YFV



	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Estimate	NA	34	51	68	85	86	94	91	93	92	93	92
Estimate GoC	NA	••	•	•	••	••	•	•	•	•	•	••
Official	NA	NA	89	68	84	85	93	90	92	91	92	91
Administrative	NA	34	89	68	84	85	93	90	93	91	92	91
Survey	NA	NA	NA	79.3	86.4	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:

- 2003: Estimate is based on reported data. YFV introduced in 2003 GoC=R+ D+
- 2004: Reported data calibrated to 2003 and 2005 levels. Reported data excluded. Unexplained increase from 34 percent to 89 percent with decrease 68 percent. Estimate challenged by: D-
- 2005: Survey supports reported. Reported data excluded. Decline in reported coverage from 89 percent to 68 percent with increase to 84 percent. Estimate challenged by: R-
- 2006: Reported data calibrated to 2005 levels. Survey results ignored. Sample size 220 less than 300. GoC=S+ D+
- 2007: Reported data calibrated to 2005 levels. GoC=S+ D+
- 2008: Reported data calibrated to 2005 levels. Estimate challenged by: D-
- 2009: Reported data calibrated to 2005 levels. Estimate challenged by: D-
- 2010: Reported data calibrated to 2005 levels. Estimate challenged by: D-
- 2011: Reported data calibrated to 2005 levels. Estimate challenged by: D-
- 2012: Reported data calibrated to 2005 levels. Estimate challenged by: D-
- 2013: Reported data calibrated to 2005 levels. No nationally representative household survey within the last 5 years. WHO and UNICEF recommend a high-quality survey to confirm reported levels of coverage. GoC=D+

Sao Tome and Principe - survey details

2007 São Tomé e Príncipe Inquérito Demográfico e Sanitário (IDS STP 2008-2009)

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	C or H <12 months	95.2	12-23 m	341	93
BCG	Card	92.7	12-23 m	341	93
BCG	Card or History	96.1	12-23 m	341	93
DTP1	C or H <12 months	93.6	12-23 m	341	93
DTP1	Card	90.4	12-23 m	341	93
DTP1	Card or History	93.6	12-23 m	341	93
DTP3	C or H <12 months	86.4	12-23 m	341	93
DTP3	Card	85.8	12-23 m	341	93
DTP3	Card or History	87.4	12-23 m	341	93
MCV	C or H <12 months	75.3	12-23 m	341	93
MCV	Card	81.1	12-23 m	341	93
MCV	Card or History	84	12-23 m	341	93
Pol1	C or H <12 months	94.6	12-23 m	341	93
Pol1	Card	91.3	12-23 m	341	93
Pol1	Card or History	94.6	12-23 m	341	93
Pol3	C or H <12 months	85.7	12-23 m	341	93
Pol3	Card	86.3	12-23 m	341	93
Pol3	Card or History	86.7	12-23 m	341	93

2006 Enquête nationale de couverture vaccinale 2007

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	Card	98.6	12-23 m	220	97
BCG	Card or History	99.5	12-23 m	220	97
DTP1	Card	97.3	12-23 m	220	97
DTP1	Card or History	100	12-23 m	220	97
DTP3	Card	95.9	12-23 m	220	97
DTP3	Card or History	98.6	12-23 m	220	97
HepB1	Card	96.8	12-23 m	220	97
HepB1	Card or History	99.5	12-23 m	220	97
HepB3	Card	91.4	12-23 m	220	97
HepB3	Card or History	93.6	12-23 m	220	97
MCV	Card	91.8	12-23 m	220	97
MCV	Card or History	94.5	12-23 m	220	97

Pol1	Card	97.3	12-23 m	220	97
Pol1	Card or History	100	12-23 m	220	97
Pol3	Card	95.5	12-23 m	220	97
Pol3	Card or History	98.2	12-23 m	220	97
YFV	Card	83.6	12-23 m	220	97
YFV	Card or History	86.4	12-23 m	220	97

2005 The 2006 São Tomé e Príncipe Multiple Indicator Cluster Survey: Final Report

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	C or H <12 months	98.1	12-23 m	673	91
BCG	Card	90.8	12-23 m	673	91
BCG	Card or History	98.2	12-23 m	673	91
BCG	History	7.5	12-23 m	673	91
DTP1	C or H <12 months	97.9	12-23 m	673	91
DTP1	Card	90.8	12-23 m	673	91
DTP1	Card or History	97.9	12-23 m	673	91
DTP1	History	7.2	12-23 m	673	91
DTP3	C or H <12 months	91.4	12-23 m	673	91
DTP3	Card	87.5	12-23 m	673	91
DTP3	Card or History	92.1	12-23 m	673	91
DTP3	History	4.7	12-23 m	673	91
HepB1	C or H <12 months	87.6	12-23 m	673	91
HepB1	Card	88	12-23 m	673	91
HepB1	Card or History	88	12-23 m	673	91
HepB1	History	0	12-23 m	673	91
HepB3	C or H <12 months	82.9	12-23 m	673	91
HepB3	Card	83.2	12-23 m	673	91
HepB3	Card or History	83.2	12-23 m	673	91
HepB3	History	0	12-23 m	673	91
MCV	C or H <12 months	83.4	12-23 m	673	91
MCV	Card	80	12-23 m	673	91
MCV	Card or History	86.9	12-23 m	673	91
MCV	History	6.8	12-23 m	673	91
Pol1	C or H <12 months	97	12-23 m	673	91
Pol1	Card	90.9	12-23 m	673	91
Pol1	Card or History	97.1	12-23 m	673	91
Pol1	History	6.2	12-23 m	673	91

Sao Tome and Principe - survey details

Pol3	C or H <12 months	87.4	12-23 m	673	91
Pol3	Card	87.5	12-23 m	673	91
Pol3	Card or History	88.1	12-23 m	673	91
Pol3	History	0.6	12-23 m	673	91
YFV	C or H <12 months	76.9	12-23 m	673	91
YFV	Card	73.9	12-23 m	673	91
YFV	Card or History	79.3	12-23 m	673	91
YFV	History	5.4	12-23 m	673	91

multiples MICS, Rapport d'analyse, 2000

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	Card <12 months	99	12-23 m	-	-
DTP1	Card <12 months	97	12-23 m	-	-
DTP3	Card <12 months	94	12-23 m	-	-
MCV	Card <12 months	89	12-23 m	-	-
Pol1	Card <12 months	99	12-23 m	-	-
Pol3	Card <12 months	92	12-23 m	-	-

1999 Sao Tome and Principe Enquête de grappes à indicateurs

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