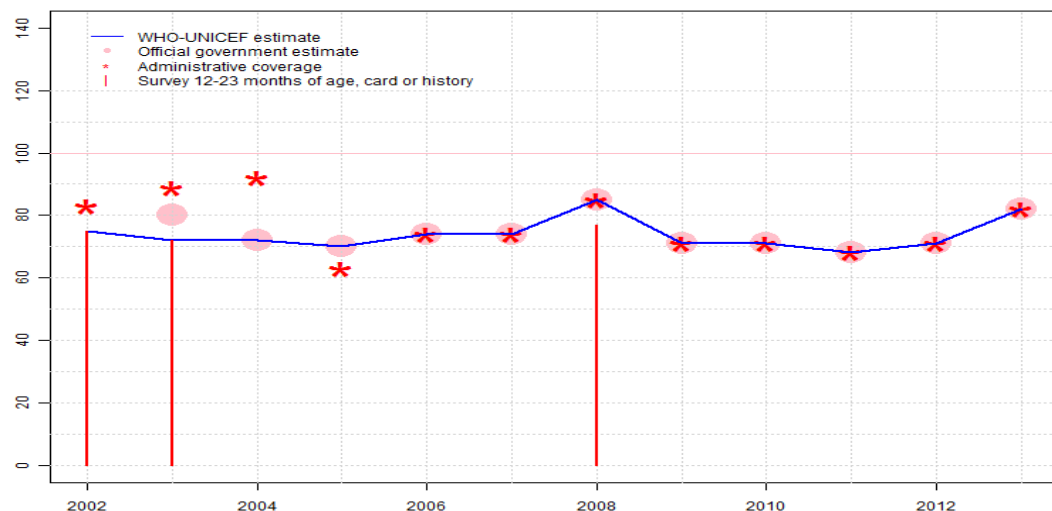


# Timor-Leste - BCG

TLS - BCG



	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Estimate	75	72	72	70	74	74	85	71	71	68	71	82
Estimate GoC	•	•	•••	•••	•••	•••	•••	•	•••	••	••	••
Official	NA	80	72	70	74	74	85	71	71	68	71	82
Administrative	83	89	92	63	74	74	85	71	71	68	71	82
Survey	75	72	NA	NA	NA	NA	77	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.

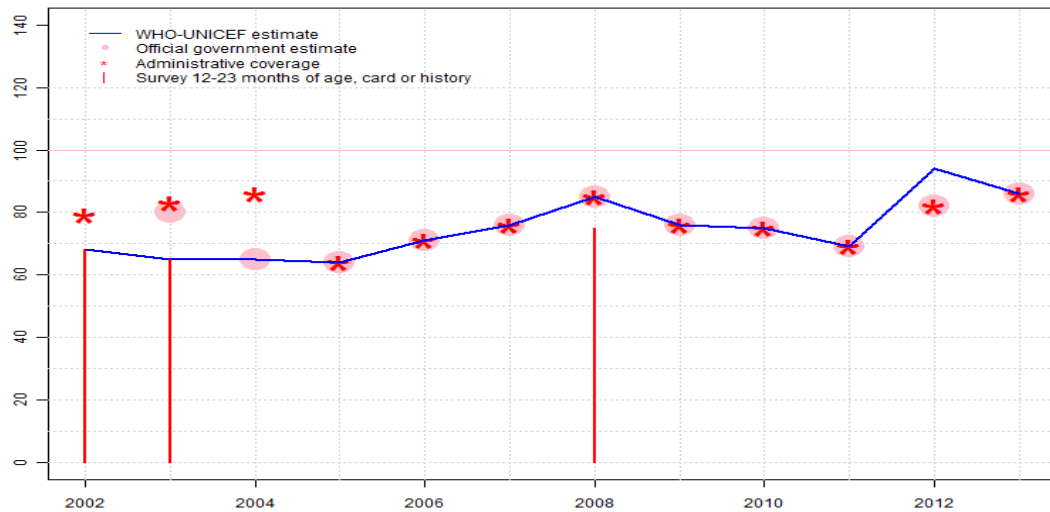
In all cases these estimates should be used with caution and should be assessed in light of the objective for which they are being used.

## Description:

- 2002: Subsequent revision of denominator based on 2005 census Estimate challenged by: D-R-
- 2003: Subsequent revision of denominator based on 2005 census Estimate challenged by: D-R-
- 2004: Subsequent revision of denominator based on 2005 census GoC=R+ S+ D+
- 2005: Estimate based on coverage reported by national government. GoC=R+ S+ D+
- 2006: Estimate based on coverage reported by national government. GoC=R+ S+ D+
- 2007: Estimate based on coverage reported by national government. GoC=R+ S+ D+
- 2008: Estimate based on coverage reported by national government supported by survey. Survey evidence of 77 percent based on 1 survey(s). Trends in coverage from 2007 to 2009 consistent with trends in other antigens. GoC=R+ S+ D+
- 2009: Estimate based on coverage reported by national government. Trends in coverage from 2007 to 2009 consistent with trends in other antigens. Estimate challenged by: D-
- 2010: Estimate based on coverage reported by national government. GoC=R+ S+ 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. Programme reports three month stockout at national level and in two districts. Estimates based on reported data. GoC=R+ D+

# Timor-Leste - DTP1

TLS - DTP1



	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Estimate	68	65	65	64	71	76	85	76	75	69	94	86
Estimate GoC	•	•	•••	•••	•••	•••	•••	•	•••	••	•	••
Official	NA	80	65	64	71	76	85	76	75	69	82	86
Administrative	79	83	86	64	71	76	85	76	75	69	82	86
Survey	68	65	NA	NA	NA	NA	75	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.

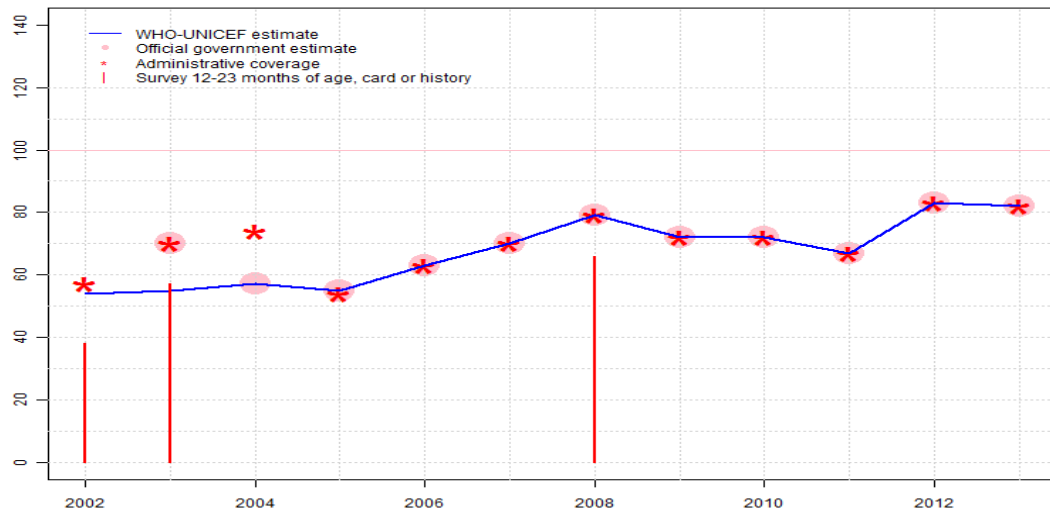
In all cases these estimates should be used with caution and should be assessed in light of the objective for which they are being used.

## Description:

- 2002: Subsequent revision of denominator based on 2005 census Estimate challenged by: D-R-
- 2003: Subsequent revision of denominator based on 2005 census Estimate challenged by: R-
- 2004: Subsequent revision of denominator based on 2005 census GoC=R+ S+ D+
- 2005: Estimate based on coverage reported by national government. GoC=R+ S+ D+
- 2006: Estimate based on coverage reported by national government. GoC=R+ S+ D+
- 2007: Estimate based on coverage reported by national government. GoC=R+ S+ D+
- 2008: Estimate based on coverage reported by national government supported by survey. Survey evidence of 75 percent based on 1 survey(s). GoC=R+ S+ 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+ S+ D+
- 2011: Estimate based on coverage reported by national government. GoC=R+ D+
- 2012: DTP1 coverage estimated based on DTP3 coverage of 83. Estimate of 94 percent changed from previous revision value of 69 percent. Estimate challenged by: D-R-
- 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+

# Timor-Leste - DTP3

TLS - DTP3



	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Estimate	54	55	57	55	63	70	79	72	72	67	83	82
Estimate GoC	•	•	•••	•••	•••	•••	•••	•	•••	••	••	••
Official	NA	70	57	55	63	70	79	72	72	67	83	82
Administrative	57	70	74	54	63	70	79	72	72	67	83	82
Survey	38	57	NA	NA	NA	NA	66	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.

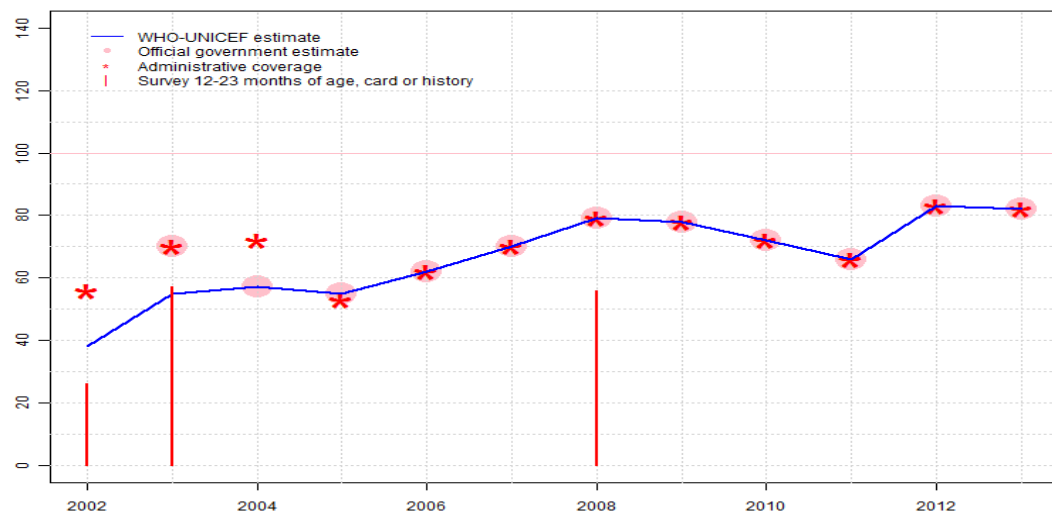
In all cases these estimates should be used with caution and should be assessed in light of the objective for which they are being used.

## Description:

- 2002: Subsequent revision of denominator based on 2005 census Timor-Leste 2003 Demographic and Health Survey card or history results of 38 percent modified for recall bias to 54 percent based on 1st dose card or history coverage of 68 percent, 1st dose card only coverage of 64 percent and 3d dose card only coverage of 51 percent. Estimate challenged by: D-R-
- 2003: Subsequent revision of denominator based on 2005 census Immunization coverage among women and children 12-23 months in the Democratic Republic of Timor Lest Using the EPI cluster survey methodology card or history results of 57 percent modified for recall bias to 55 percent based on 1st dose card or history coverage of 65 percent, 1st dose card only coverage of 20 percent and 3d dose card only coverage of 17 percent. Reported data excluded. Unexplained increase from 57 percent to 70 percent with decrease 57 percent. Estimate challenged by: R-
- 2004: Subsequent revision of denominator based on 2005 census GoC=R+ S+ D+
- 2005: Estimate based on coverage reported by national government. GoC=R+ S+ D+
- 2006: Estimate based on coverage reported by national government. GoC=R+ S+ D+
- 2007: Estimate based on coverage reported by national government. GoC=R+ S+ D+
- 2008: Estimate based on coverage reported by national government supported by survey. Survey evidence of 72 percent based on 1 survey(s). Timor-Leste Demographic and Health Survey 2009-10 card or history results of 66 percent modified for recall bias to 72 percent based on 1st dose card or history coverage of 75 percent, 1st dose card only coverage of 49 percent and 3d dose card only coverage of 47 percent. GoC=R+ S+ 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+ S+ D+
- 2011: Estimate based on coverage reported by national government. GoC=R+ D+
- 2012: Estimate based on coverage reported by national government. Estimate of 83 percent changed from previous revision value of 67 percent. 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+

# Timor-Leste - Pol3

TLS - Pol3



	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Estimate	38	55	57	55	62	70	79	78	72	66	83	82
Estimate GoC	•	•	•••	•••	•••	•••	•••	•••	•••	••	••	••
Official	NA	70	57	55	62	70	79	78	72	66	83	82
Administrative	56	70	72	53	62	70	79	78	72	66	83	82
Survey	26	57	NA	NA	NA	NA	56	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.

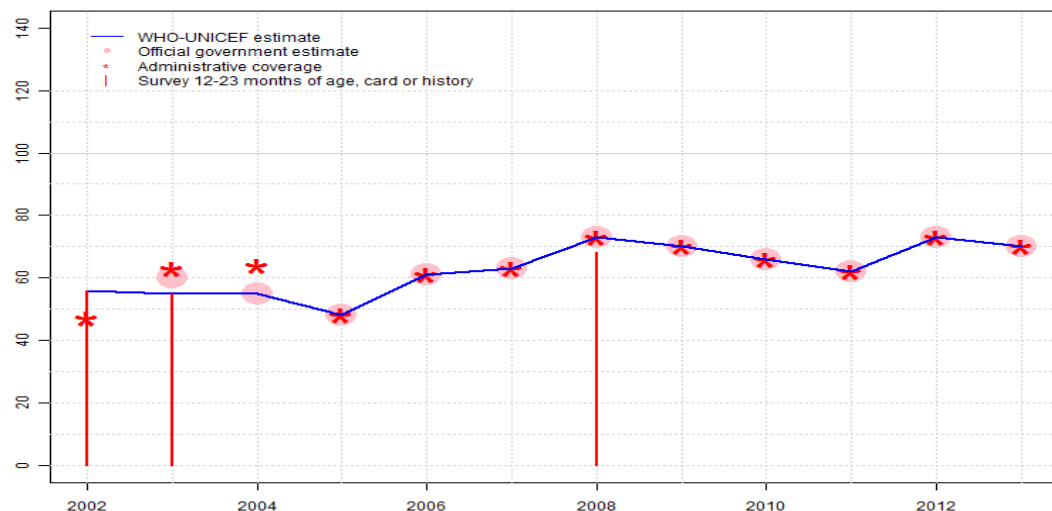
In all cases these estimates should be used with caution and should be assessed in light of the objective for which they are being used.

## Description:

- 2002: Subsequent revision of denominator based on 2005 census Timor-Leste 2003 Demographic and Health Survey card or history results of 26 percent modified for recall bias to 37 percent based on 1st dose card or history coverage of 69 percent, 1st dose card only coverage of 89 percent and 3d dose card only coverage of 48 percent. Estimate challenged by: R-
- 2003: Subsequent revision of denominator based on 2005 census Immunization coverage among women and children 12-23 months in the Democratic Republic of Timor Lest Using the EPI cluster survey methodology card or history results of 57 percent modified for recall bias to 55 percent based on 1st dose card or history coverage of 65 percent, 1st dose card only coverage of 20 percent and 3d dose card only coverage of 17 percent. Reported data excluded. Unexplained increase from 56 percent to 70 percent with decrease 57 percent. Estimate challenged by: R-
- 2004: Subsequent revision of denominator based on 2005 census GoC=R+ S+ D+
- 2005: Estimate based on coverage reported by national government. GoC=R+ S+ D+
- 2006: Estimate based on coverage reported by national government. GoC=R+ S+ D+
- 2007: Estimate based on coverage reported by national government. GoC=R+ S+ D+
- 2008: Estimate based on coverage reported by national government supported by survey. Survey evidence of 72 percent based on 1 survey(s). Timor-Leste Demographic and Health Survey 2009-10 card or history results of 56 percent modified for recall bias to 72 percent based on 1st dose card or history coverage of 75 percent, 1st dose card only coverage of 49 percent and 3d dose card only coverage of 47 percent. GoC=R+ S+ D+
- 2009: Estimate based on coverage reported by national government. 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. GoC=R+ D+
- 2012: Estimate based on coverage reported by national government. Estimate of 83 percent changed from previous revision value of 66 percent. 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+

# Timor-Leste - MCV

TLS - MCV



	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Estimate	56	55	55	48	61	63	73	70	66	62	73	70
Estimate GoC	•	•	•••	•••	•••	•••	•••	•	•••	••	••	••
Official	NA	60	55	48	61	63	73	70	66	62	73	70
Administrative	47	63	64	48	61	63	73	70	66	62	73	70
Survey	56	55	NA	NA	NA	NA	68	NA	NA	NA	NA	NA

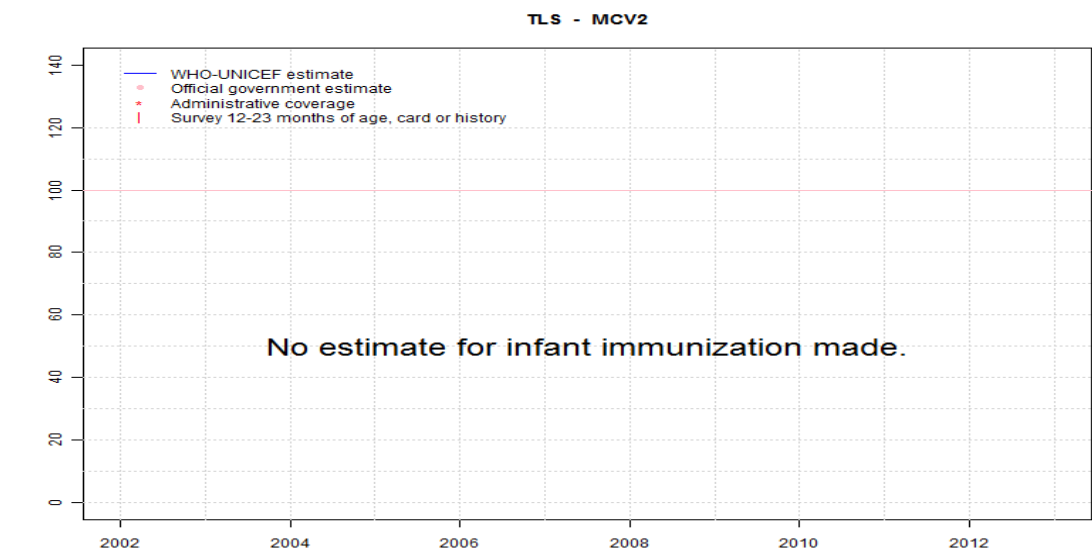
The WHO and UNICEF estimates of national immunization coverage (wuenic) are based on data and information that are of varying, and, in some instances, unknown quality. Beginning with the 2011 revision we describe the grade of confidence (GoC) we have in these estimates. As there is no underlying probability 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: Subsequent revision of denominator based on 2005 census Estimate challenged by: R-
- 2003: Subsequent revision of denominator based on 2005 census Estimate challenged by: R-
- 2004: Subsequent revision of denominator based on 2005 census GoC=R+ S+ D+
- 2005: Estimate based on coverage reported by national government. GoC=R+ S+ D+
- 2006: Estimate based on coverage reported by national government. GoC=R+ S+ D+
- 2007: Estimate based on coverage reported by national government. GoC=R+ S+ D+
- 2008: Estimate based on coverage reported by national government supported by survey. Survey evidence of 68 percent based on 1 survey(s). GoC=R+ S+ 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+ S+ D+
- 2011: Estimate based on coverage reported by national government. GoC=R+ D+
- 2012: Estimate based on coverage reported by national government. Estimate of 73 percent changed from previous revision value of 62 percent. 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. Programme reports four month stockout at national level and in four districts. 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	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

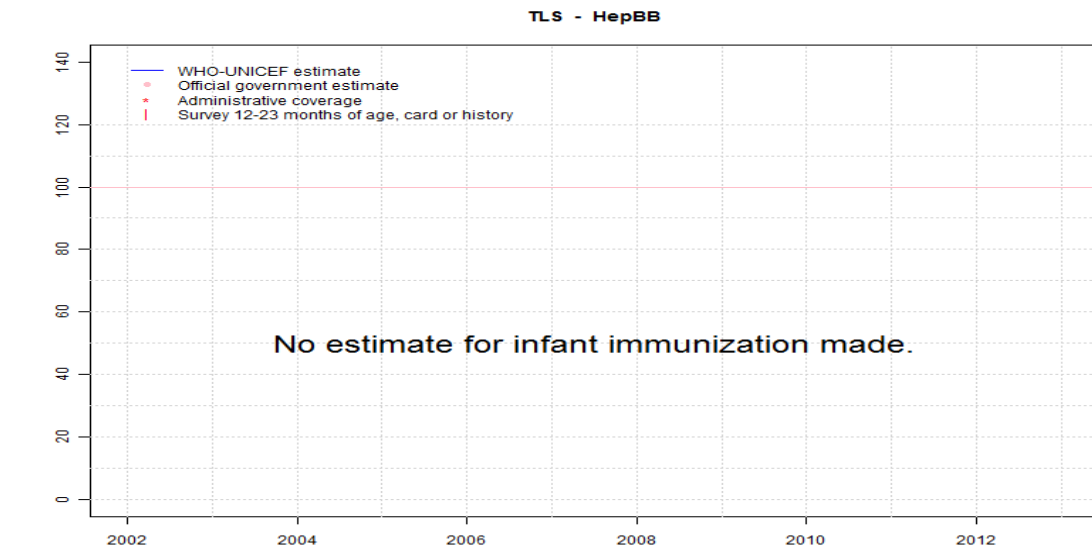
The WHO and UNICEF estimates of national immunization coverage (wuenic) are based on data and information that are of varying, and, in some instances, unknown quality. Beginning with the 2011 revision we describe the grade of confidence (GoC) we have in these estimates. As there is no underlying probability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



# Timor-Leste - HepBB



	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

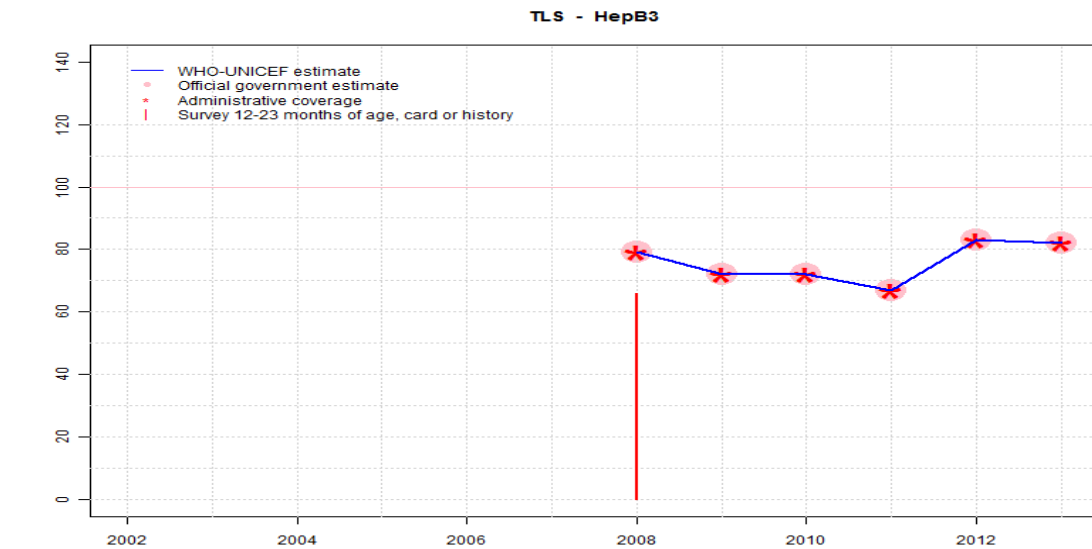
The WHO and UNICEF estimates of national immunization coverage (wuenic) are based on data and information that are of varying, and, in some instances, unknown quality. Beginning with the 2011 revision we describe the grade of confidence (GoC) we have in these estimates. As there is no underlying probability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



# Timor-Leste - HepB3



	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Estimate	NA	NA	NA	NA	NA	NA	79	72	72	67	83	82
Estimate GoC	NA	NA	NA	NA	NA	NA	●●●	●	●●●	●●	●●	●●
Official	NA	NA	NA	NA	NA	NA	79	72	72	67	83	82
Administrative	NA	NA	NA	NA	NA	NA	79	72	72	67	83	82
Survey	NA	NA	NA	NA	NA	NA	66	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.

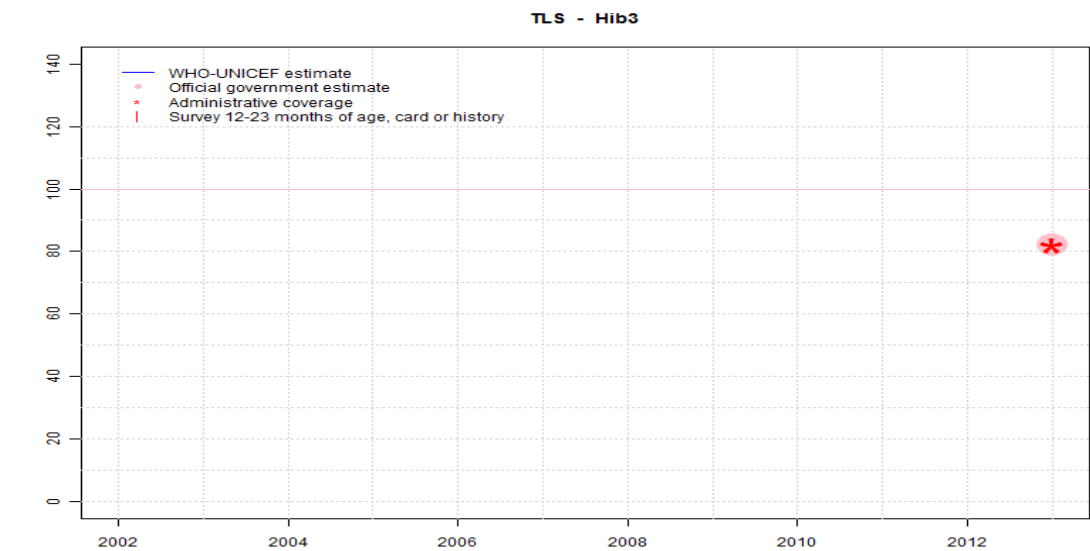
- Estimate is supported by reported data [R+], coverage recalculated with an independent denominator from the World Population Prospects: 2012 revision from the UN Population Division (D+), and at least one supporting survey within 2 years [S+]. While well supported, the estimate still carries a risk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

- 2008: Estimate based on coverage reported by national government supported by survey. Survey evidence of 72 percent based on 1 survey(s). Timor-Leste Demographic and Health Survey 2009-10 card or history results of 66 percent modified for recall bias to 72 percent based on 1st dose card or history coverage of 75 percent, 1st dose card only coverage of 49 percent and 3d dose card only coverage of 47 percent. HepB vaccine introduced in 2007. Reporting started in 2008. Vaccine presentation is DTP-HepB. GoC=R+ S+ 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+ S+ D+
- 2011: Estimate based on coverage reported by national government. GoC=R+ D+
- 2012: Estimate based on coverage reported by national government. Estimate of 83 percent changed from previous revision value of 67 percent. 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. Vaccine presentation changed from DTP-HepB to DTP-HepB-Hib in October 2012. GoC=R+ D+

# Timor-Leste - Hib3



	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Estimate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	82
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	82
Administrative	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	82
Survey	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

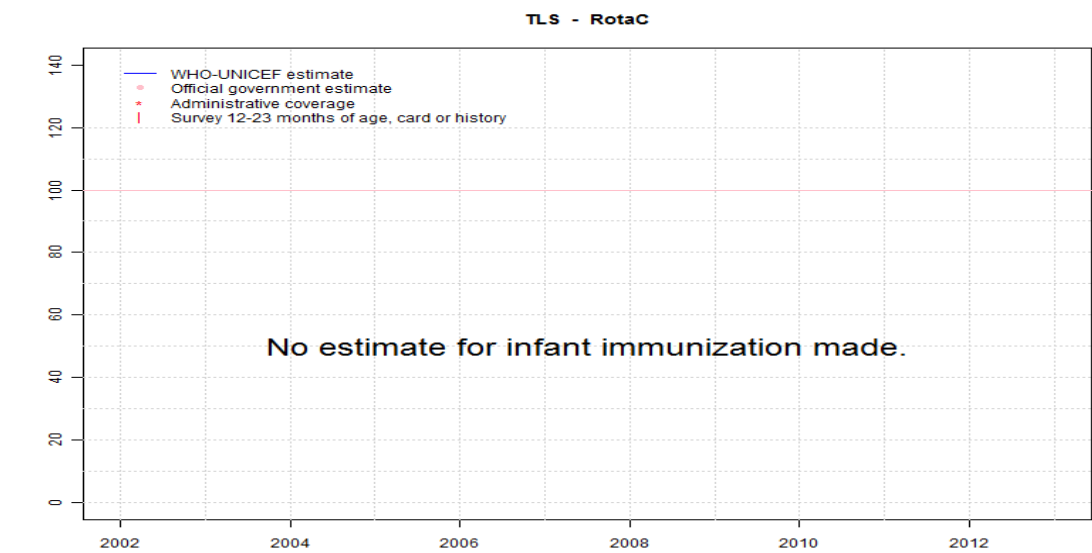
The WHO and UNICEF estimates of national immunization coverage (wuenic) are based on data and information that are of varying, and, in some instances, unknown quality. Beginning with the 2011 revision we describe the grade of confidence (GoC) we have in these estimates. As there is no underlying probability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

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. Vaccine introduced in October 2012 and reporting started in 2013. Vaccine presentation is DTP-HepB-Hib. GoC=R+ D+



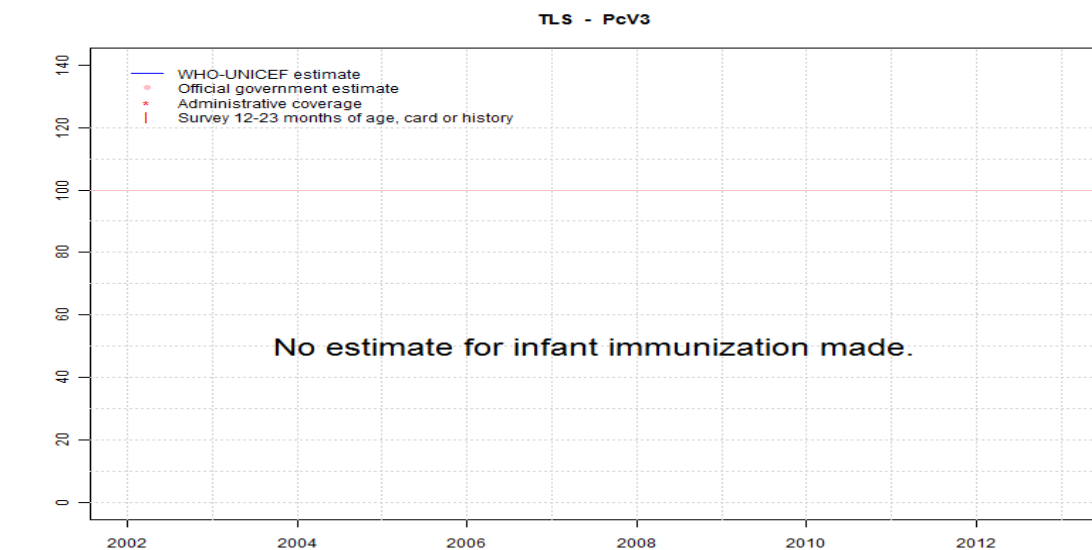
	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Estimate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Estimate GoC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Official	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Administrative	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Survey	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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.

# Timor-Leste - PcV3



	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.

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- 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.

# Timor-Leste - survey details

2010 Report on Coverage Evaluation Survey Measles Catch-up Activity, 2011 Timor-Leste

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
MCV	History	70	6-11 m	210	-

2008 Timor-Leste Demographic and Health Survey 2009-10

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	C or H <12 months	77	12-23 m	1752	50
BCG	Card	49	12-23 m	1752	50
BCG	Card or History	77	12-23 m	1752	50
BCG	History	27	12-23 m	1752	50
DTP1	C or H <12 months	74	12-23 m	1752	50
DTP1	Card	49	12-23 m	1752	50
DTP1	Card or History	75	12-23 m	1752	50
DTP1	History	26	12-23 m	1752	50
DTP3	C or H <12 months	64	12-23 m	1752	50
DTP3	Card	47	12-23 m	1752	50
DTP3	Card or History	66	12-23 m	1752	50
DTP3	History	19	12-23 m	1752	50
HepB1	C or H <12 months	74	12-23 m	1752	50
HepB1	Card	49	12-23 m	1752	50
HepB1	Card or History	75	12-23 m	1752	50
HepB1	History	26	12-23 m	1752	50
HepB3	C or H <12 months	63	12-23 m	1752	50
HepB3	Card	47	12-23 m	1752	50
HepB3	Card or History	66	12-23 m	1752	50
HepB3	History	19	12-23 m	1752	50
MCV	C or H <12 months	60	12-23 m	1752	50
MCV	Card	45	12-23 m	1752	50
MCV	Card or History	68	12-23 m	1752	50
MCV	History	23	12-23 m	1752	50
Pol1	C or H <12 months	74	12-23 m	1752	50
Pol1	Card	49	12-23 m	1752	50
Pol1	Card or History	75	12-23 m	1752	50
Pol1	History	26	12-23 m	1752	50
Pol3	C or H <12 months	54	12-23 m	1752	50

Pol3	Card	47	12-23 m	1752	50
Pol3	Card or History	56	12-23 m	1752	50
Pol3	History	9	12-23 m	1752	50

2003 Immunization coverage among women and children 12-23 months in the Democratic Republic of Timor Lest Using the EPI cluster srvey methodology

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	Card	25	12-23 m	2662	26
BCG	Card or history	72	12-23 m	2662	26
DTP1	Card	20	12-23 m	2662	26
DTP1	Card or history	65	12-23 m	2662	26
DTP3	Card	17	12-23 m	2662	26
DTP3	Card or history	57	12-23 m	2662	26
MCV	Card	15	12-23 m	2662	26
MCV	Card or history	55	12-23 m	2662	26
Pol1	Card	20	12-23 m	2662	26
Pol1	Card or history	65	12-23 m	2662	26
Pol3	Card	17	12-23 m	2662	26
Pol3	Card or history	57	12-23 m	2662	26

2002 Timor-Leste 2003 Demographic and Health Survey

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	Card	62	12-23 m	722	12
BCG	Card or History	75	12-23 m	722	12
BCG	History	71	12-23 m	722	12
DTP1	Card	64	12-23 m	722	12
DTP1	Card or History	68	12-23 m	722	12
DTP1	History	63	12-23 m	722	12
DTP3	Card	51	12-23 m	722	12
DTP3	Card or History	38	12-23 m	722	12
DTP3	History	30	12-23 m	722	12
MCV	Card	40	12-23 m	722	12
MCV	Card or History	56	12-23 m	722	12
MCV	History	52	12-23 m	722	12
Pol1	Card	89	12-23 m	722	12

# Timor-Leste - survey details

Pol1	Card or History	69	12-23 m	722	12
Pol1	History	62	12-23 m	722	12
Pol3	Card	48	12-23 m	722	12
Pol3	Card or History	26	12-23 m	722	12
Pol3	History	18	12-23 m	722	12

## 2001 Multiple Indicator Cluster Survey Timor-Leste 2002

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	C or H <12 months	34	12-23 m	988	10
BCG	Card	9	12-23 m	988	10
BCG	Card or History	37	12-23 m	988	10
BCG	History	28	12-23 m	988	10
DTP1	C or H <12 months	34	12-23 m	988	10
DTP1	Card	9	12-23 m	988	10
DTP1	Card or History	35	12-23 m	988	10

DTP1	History	26	12-23 m	988	10
DTP3	C or H <12 months	17	12-23 m	988	10
DTP3	Card	5	12-23 m	988	10
DTP3	Card or History	18	12-23 m	988	10
DTP3	History	13	12-23 m	988	10
MCV	C or H <12 months	24	12-23 m	988	10
MCV	Card	5	12-23 m	988	10
MCV	Card or History	28	12-23 m	988	10
MCV	History	22	12-23 m	988	10
Pol1	C or H <12 months	34	12-23 m	988	10
Pol1	Card	7	12-23 m	988	10
Pol1	Card or History	37	12-23 m	988	10
Pol1	History	30	12-23 m	988	10
Pol3	C or H <12 months	16	12-23 m	988	10
Pol3	Card	4	12-23 m	988	10
Pol3	Card or History	16	12-23 m	988	10
Pol3	History	12	12-23 m	988	10

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

## Timor-Leste

### WHO/UNICEF Estimates of Protection at Birth (PAB) against tetanus

In countries where tetanus is recommended for girls and women coverage is usually reported as "TT2+", i.e. the proportion of (pregnant) women who have received their second or superior TT dose in a given year. TT2 + coverage, however, can under-represent the actual proportion of births that are protected against tetanus as it does not include women who have previously received protective doses, women who received one dose without documentation of previous doses, and women who received doses in TT (or Td) supplemental immunization activities (SIA). In addition, girls who have received DTP in their childhood and are entering childbearing age, may be protected with TT booster doses.

WHO and UNICEF have developed a model that takes into account the above scenarios, and calculates the proportion of births in a given year that can be considered as having been protected against tetanus - "Protection at Birth".

In this model, annual cohorts of women are followed from infancy through their life. A proportion receive DTP in infancy (estimated based on the WHO-UNICEF estimates of DTP3 coverage). In addition some of these women also receive TT through routine services when they are pregnant and may also receive TT during SIAs. The model also adjusts reported data, taking into account coverage patterns in other years, and/or results available through surveys. The duration of protection is then calculated, based on WHO estimates of the duration of protection by doses ever received. The proportion of births that are protected against tetanus as a result of maternal immunization reflects the tetanus immunization received by the mother throughout her life rather than simply the TT immunizations received during the current pregnancy.

Year	PAB coverage estimate (%)
2002	55
2003	58
2004	64
2005	59
2006	63
2007	59
2008	66
2009	81
2010	81
2011	81
2012	81
2013	81

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<sup>1</sup> This model is described in: Griffiths U., Wolfson L., Quddus A., Younus M., Hafiz R.. Incremental cost-effectiveness of supplementary immunization activities to prevent neo-natal tetanus in Pakistan. Bulletin of the World Health Organization 2004; 82:643-651.