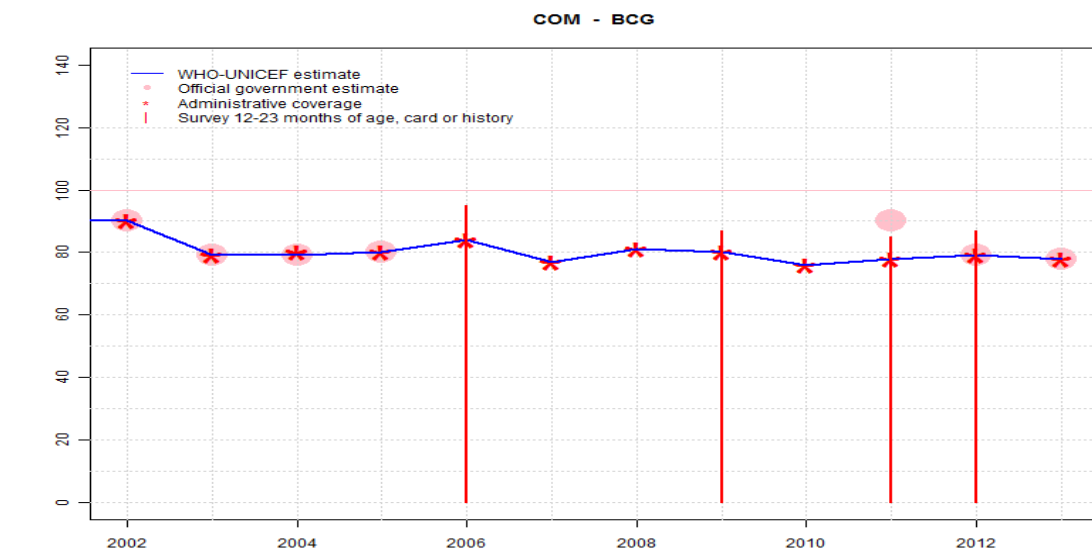


Comoros - BCG



	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Estimate	90	79	79	80	84	77	81	80	76	78	79	78
Estimate GoC	••	•	••	•	•	•	•	•	•	•	•	•
Official	90	79	79	80	NA	NA	NA	NA	NA	90	79	78
Administrative	90	79	80	80	84	77	81	80	76	78	79	78
Survey	NA	NA	NA	NA	95	NA	NA	87	NA	85	87	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.

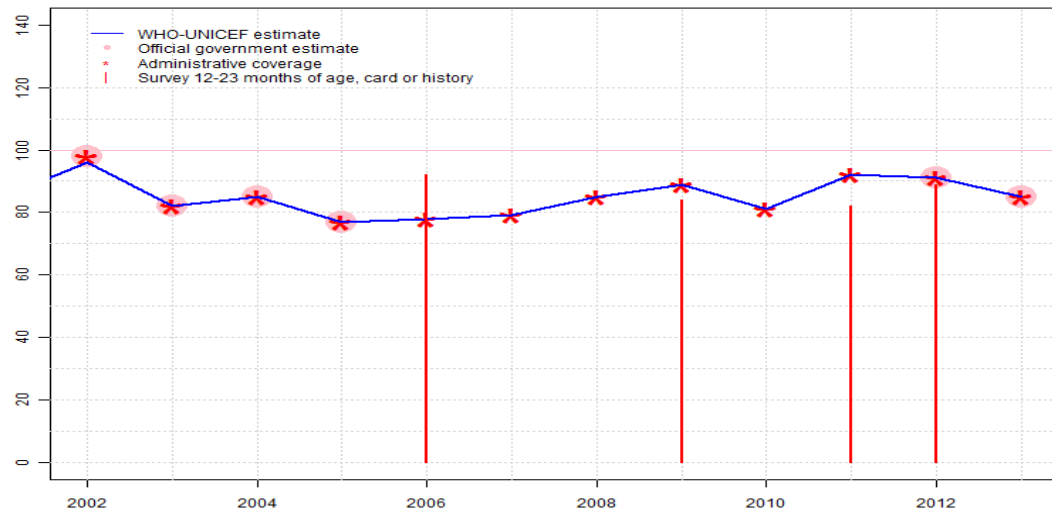
In all cases these estimates should be used with caution and should be assessed in light of the objective for which they are being used.

Description:

- 2002: Estimate based on coverage reported by national government. GoC=R+
- 2003: Estimate based on coverage reported by national government. Estimate challenged by: D-
- 2004: Estimate based on coverage reported by national government. GoC=R+D+
- 2005: Estimate based on coverage reported by national government. Estimate challenged by: D-
- 2006: Estimate based on reported administrative data. Survey results ignored. Sample size 217 less than 300. Estimate challenged by: D-
- 2007: Estimate based on reported administrative data. Estimate challenged by: D-
- 2008: Estimate based on reported administrative data. Estimate challenged by: D-
- 2009: Estimate based on administrative data reported by national government supported by survey. Survey evidence of 87 percent based on 1 survey(s). Estimate challenged by: D-S-
- 2010: Estimate based on reported administrative data. Estimate challenged by: D-S-
- 2011: Estimate based on interpolation between coverage reported by national government. Comoros Demographic and Health and Multiple Indicator Survey (EDSC-MICS II) 2012 results ignored by working group. Survey results are preliminary. Reported data excluded. Unexplained increase from 76 percent to 90 percent with decrease 79 percent. Estimate of 78 percent changed from previous revision value of 76 percent. Estimate challenged by: D-S-
- 2012: Estimate based on coverage reported by national government supported by survey. Survey evidence of 87 percent based on 1 survey(s). Estimate of 79 percent changed from previous revision value of 76 percent. Estimate challenged by: D-S-
- 2013: Estimate based on coverage reported by national government. Estimate challenged by: D-S-

Comoros - DTP1

COM - DTP1



	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Estimate	96	82	85	77	78	79	85	89	81	92	91	85
Estimate GoC	•	•	•	•	•	•	•	•	•	•	•	•
Official	98	82	85	77	NA	NA	NA	NA	NA	NA	91	85
Administrative	98	82	85	77	78	79	85	89	81	92	91	85
Survey	NA	NA	NA	NA	92	NA	NA	84	NA	82	89	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.

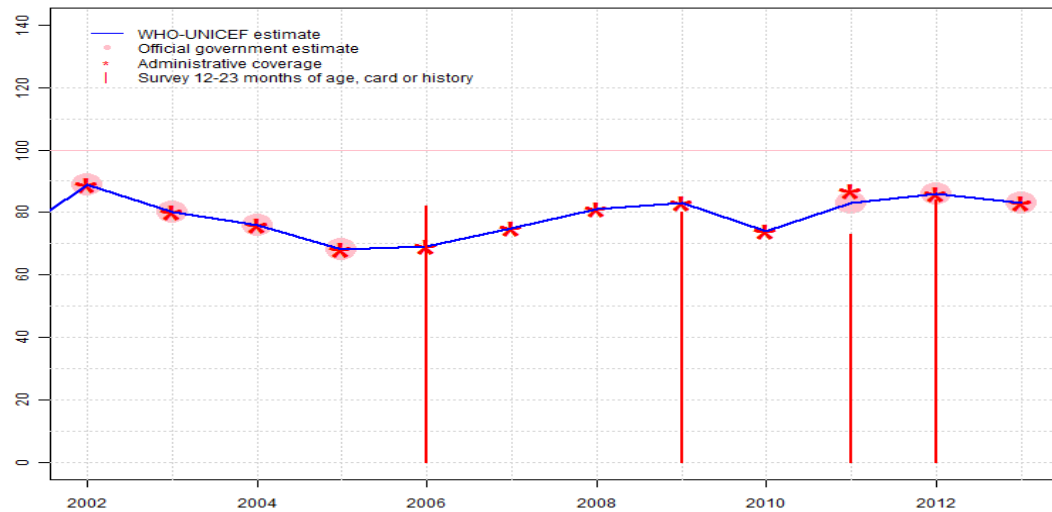
In all cases these estimates should be used with caution and should be assessed in light of the objective for which they are being used.

Description:

- 2002: DTP1 coverage estimated based on DTP3 coverage of 89. Reported data excluded. Unexplained increase from 85 percent to 98 percent with decrease 82 percent. Estimate challenged by: R-
- 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. Vaccine presentation changed to DTP-HepB. Estimate challenged by: D-
- 2006: Estimate based on reported administrative data. Survey results ignored. Sample size 217 less than 300. Estimate challenged by: D-
- 2007: Estimate based on reported administrative data. Estimate challenged by: D-
- 2008: Estimate based on reported administrative data. Estimate challenged by: D-
- 2009: Estimate based on administrative data reported by national government supported by survey. Survey evidence of 84 percent based on 1 survey(s). Vaccine presentation changed to DTP-HepB-Hib. Estimate challenged by: D-S-
- 2010: Estimate based on reported administrative data. Estimate challenged by: D-S-
- 2011: Estimate based on reported administrative data. Comoros Demographic and Health and Multiple Indicator Survey (EDSC-MICS II) 2012 results ignored by working group. Survey results are preliminary. Estimate challenged by: D-S-
- 2012: Estimate based on coverage reported by national government supported by survey. Survey evidence of 89 percent based on 1 survey(s). Estimate challenged by: D-S-
- 2013: Estimate based on coverage reported by national government. Estimate challenged by: D-S-

Comoros - DTP3

COM - DTP3



	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Estimate	89	80	76	68	69	75	81	83	74	83	86	83
Estimate GoC	●●	●	●●	●	●	●	●	●	●	●	●	●
Official	89	80	76	68	NA	NA	NA	NA	NA	83	86	83
Administrative	89	80	76	68	69	75	81	83	74	87	86	83
Survey	NA	NA	NA	NA	82	NA	NA	80	NA	73	84	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.

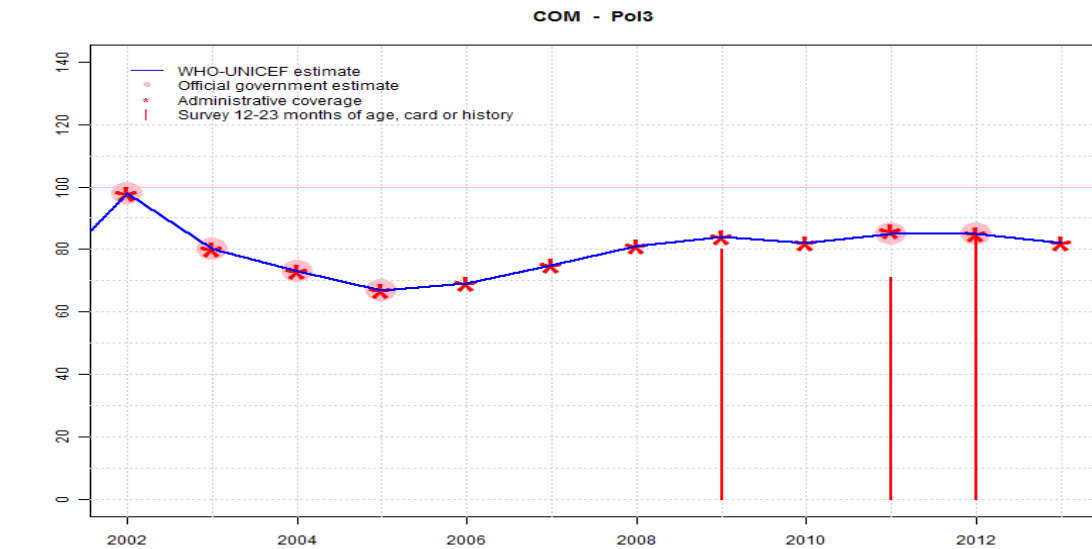
- Estimate is supported by reported data [R+], coverage recalculated with an independent denominator from the World Population Prospects: 2012 revision from the UN Population Division (D+), and at least one supporting survey within 2 years [S+]. While well supported, the estimate still carries a risk 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. Estimate challenged by: D-
- 2004: Estimate based on coverage reported by national government. GoC=R+ D+
- 2005: Estimate based on coverage reported by national government. Vaccine presentation changed to DTP-HepB. Estimate challenged by: D-
- 2006: Estimate based on reported administrative data. Survey results ignored. Sample size 217 less than 300. Estimate challenged by: D-
- 2007: Estimate based on reported administrative data. Estimate challenged by: D-
- 2008: Estimate based on reported administrative data. Estimate challenged by: D-
- 2009: Estimate based on administrative data reported by national government supported by survey. Survey evidence of 80 percent based on 1 survey(s). Vaccine presentation changed to DTP-HepB-Hib. Estimate challenged by: D-S-
- 2010: Estimate based on reported administrative data. Estimate challenged by: D-S-
- 2011: Estimate based on coverage reported by national government. Comoros Demographic and Health and Multiple Indicator Survey (EDSC-MICS II) 2012 results ignored by working group. Survey results are preliminary. Estimate challenged by: D-S-
- 2012: Estimate based on coverage reported by national government supported by survey. Survey evidence of 84 percent based on 1 survey(s). Estimate challenged by: D-S-
- 2013: Estimate based on coverage reported by national government. Estimate challenged by: D-S-

Comoros - Pol3



	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Estimate	98	80	73	67	69	75	81	84	82	85	85	82
Estimate GoC	●●	●	●●	●	●	●	●	●	●	●	●	●
Official	98	80	73	67	NA	NA	NA	NA	NA	85	85	NA
Administrative	98	80	73	67	69	75	81	84	82	86	85	82
Survey	NA	NA	NA	NA	NA	NA	NA	80	NA	71	84	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.

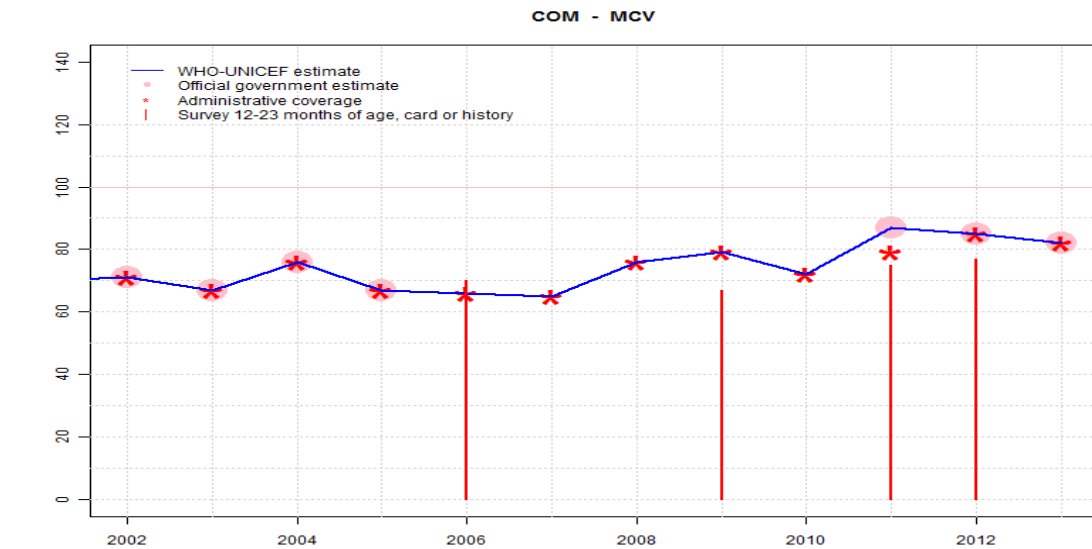
- Estimate is supported by reported data [R+], coverage recalculated with an independent denominator from the World Population Prospects: 2012 revision from the UN Population Division (D+), and at least one supporting survey within 2 years [S+]. While well supported, the estimate still carries a risk 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. Reported coverage accepted for all other vaccines. GoC=R+
- 2003: Estimate based on coverage reported by national government. Estimate challenged by: D-
- 2004: Estimate based on coverage reported by national government. GoC=R+ D+
- 2005: Estimate based on coverage reported by national government. Estimate challenged by: D-
- 2006: Estimate based on reported administrative data. Estimate challenged by: D-
- 2007: Estimate based on reported administrative data. Estimate challenged by: D-
- 2008: Estimate based on reported administrative data. Estimate challenged by: D-
- 2009: Estimate based on administrative data reported by national government supported by survey. Survey evidence of 80 percent based on 1 survey(s). Estimate challenged by: D-S-
- 2010: Estimate based on reported administrative data. Estimate challenged by: D-S-
- 2011: Estimate based on coverage reported by national government. Comoros Demographic and Health and Multiple Indicator Survey (EDSC-MICS II) 2012 results ignored by working group. Survey results are preliminary. Estimate challenged by: D-S-
- 2012: Estimate based on coverage reported by national government supported by survey. Survey evidence of 84 percent based on 1 survey(s). Estimate challenged by: D-S-
- 2013: Estimate based on reported administrative data. Estimate challenged by: D-S-

Comoros - MCV



	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Estimate	71	67	76	67	66	65	76	79	72	87	85	82
Estimate GoC	••	•	••	•	••	•	•	•	•	•	•	•
Official	71	67	76	67	NA	NA	NA	NA	NA	87	85	82
Administrative	71	67	76	67	66	65	76	79	72	79	85	82
Survey	NA	NA	NA	NA	70	NA	NA	67	NA	75	77	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.

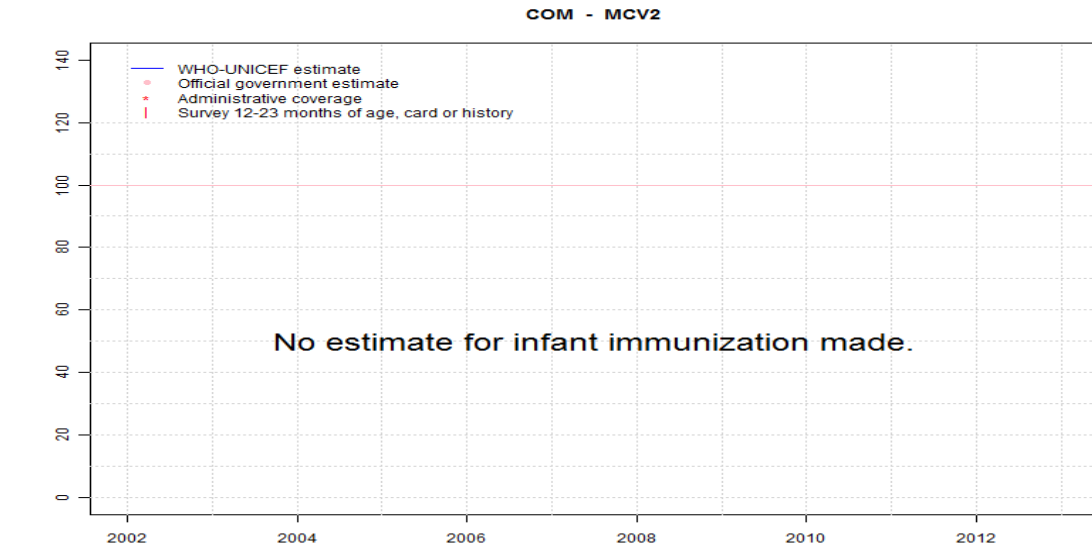
- Estimate is supported by reported data [R+], coverage recalculated with an independent denominator from the World Population Prospects: 2012 revision from the UN Population Division (D+), and at least one supporting survey within 2 years [S+]. While well supported, the estimate still carries a risk 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. Estimate challenged by: D-
- 2004: Estimate based on coverage reported by national government. GoC=R+ D+
- 2005: Estimate based on coverage reported by national government. Estimate challenged by: D-
- 2006: Estimate based on reported administrative data. Survey results ignored. Sample size 217 less than 300. GoC=R+ D+
- 2007: Estimate based on reported administrative data. Estimate challenged by: S-
- 2008: Estimate based on reported administrative data. Estimate challenged by: D-S-
- 2009: Estimate based on reported administrative data. Immunization Coverage Survey in the Union of Comoros (October 2010) results ignored by working group. Survey supports reported data for other antigens. Estimate challenged by: D-S-
- 2010: Estimate based on reported administrative data. Estimate challenged by: D-S-
- 2011: Estimate based on coverage reported by national government. Comoros Demographic and Health and Multiple Indicator Survey (EDSC-MICS II) 2012 results ignored by working group. Survey results are preliminary. Estimate challenged by: D-S-
- 2012: Estimate based on coverage reported by national government supported by survey. Survey evidence of 77 percent based on 1 survey(s). Estimate challenged by: D-S-
- 2013: Estimate based on coverage reported by national government. Estimate challenged by: D-S-

Comoros - MCV2



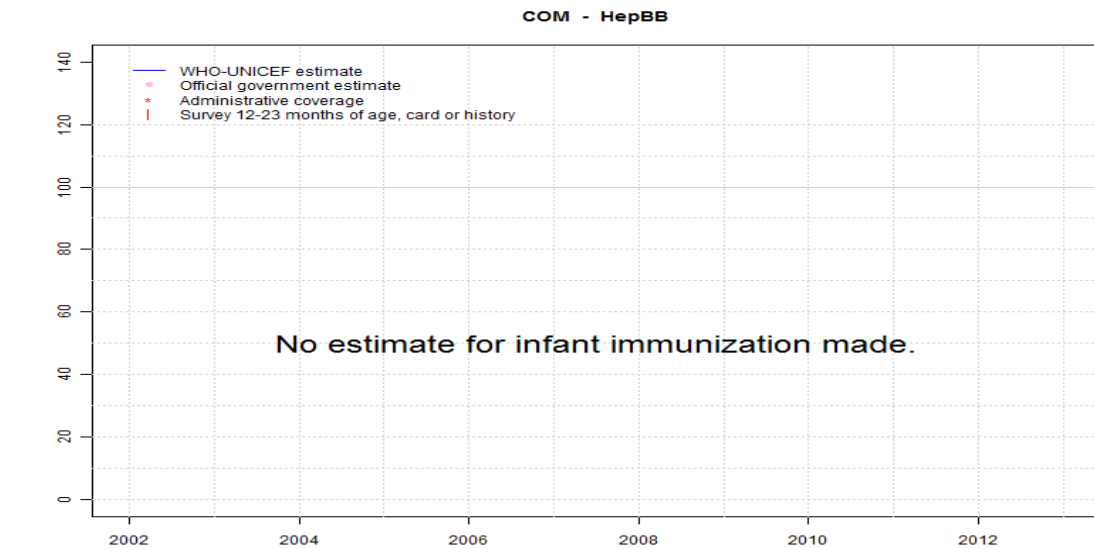
	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Estimate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Estimate GoC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Official	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Administrative	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Survey	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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.

Comoros - HepBB



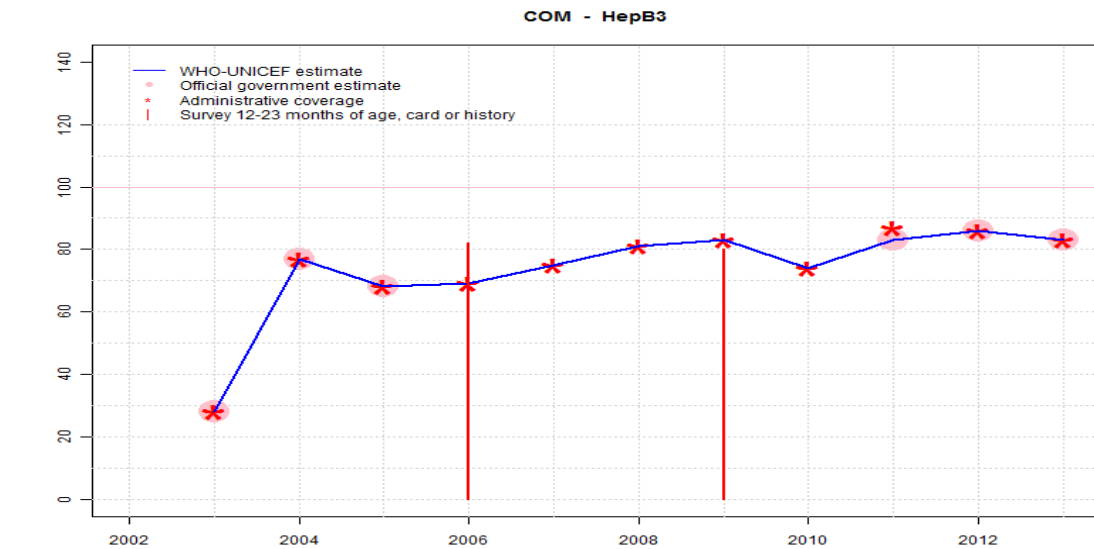
	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Estimate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Estimate GoC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Official	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Administrative	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Survey	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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.

Comoros - HepB3



	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Estimate	NA	28	77	68	69	75	81	83	74	83	86	83
Estimate GoC	NA	••	••	•	•	•	•	•	•	•	•	•
Official	NA	28	77	68	NA	NA	NA	NA	NA	83	86	83
Administrative	NA	28	77	68	69	75	81	83	74	87	86	83
Survey	NA	NA	NA	NA	82	NA	NA	80	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.

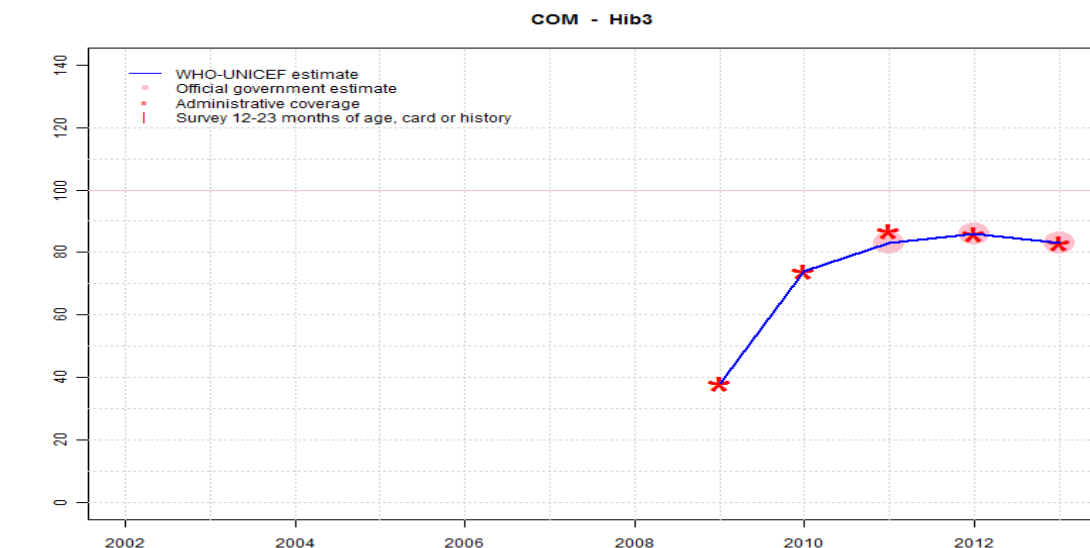
- Estimate is supported by reported data [R+], coverage recalculated with an independent denominator from the World Population Prospects: 2012 revision from the UN Population Division (D+), and at least one supporting survey within 2 years [S+]. While well supported, the estimate still carries a risk 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 reported data. HepB vaccine introduced in 2003. Vaccine presentation was monovalent HepB. GoC=R+ D+
- 2004: Estimate based on reported data. GoC=R+ D+
- 2005: Estimate based on reported data. Vaccine presentation changed to DTP-HepB. Estimate challenged by: D-
- 2006: Estimate based on reported data. Survey results ignored. Sample size 217 less than 300. Estimate challenged by: D-
- 2007: Estimate based on reported data. Estimate challenged by: D-
- 2008: Estimate based on reported data. Estimate challenged by: D-
- 2009: Estimate based on administrative data reported by national government supported by survey. Survey evidence of 80 percent based on 1 survey(s). Vaccine presentation changed to DTP-HepB-Hib. Estimate challenged by: D-S-
- 2010: Estimate based on reported administrative data. Estimate challenged by: D-S-
- 2011: Estimate based on coverage reported by national government. Estimate challenged by: D-S-
- 2012: Estimate based on coverage reported by national government. Estimate challenged by: D-S-
- 2013: Estimate based on coverage reported by national government. Estimate challenged by: D-S-

Comoros - Hib3



	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Estimate	NA	NA	NA	NA	NA	NA	NA	38	74	83	86	83
Estimate GoC	NA	NA	NA	NA	NA	NA	NA	•	•	•	•	•
Official	NA	NA	NA	NA	NA	NA	NA	NA	NA	83	86	83
Administrative	NA	NA	NA	NA	NA	NA	NA	38	74	87	86	83
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.

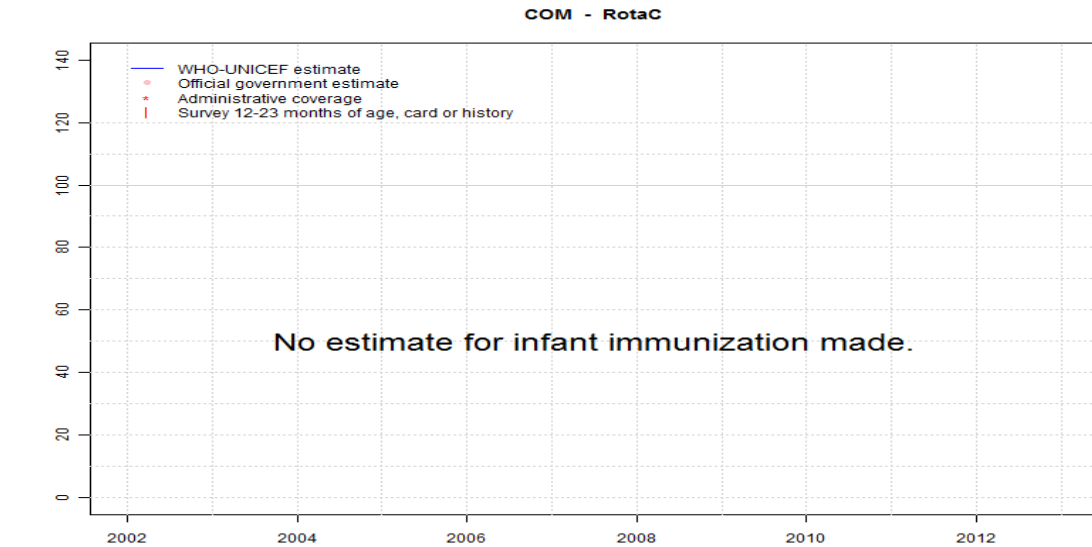
- Estimate is supported by reported data [R+], coverage recalculated with an independent denominator from the World Population Prospects: 2012 revision from the UN Population Division (D+), and at least one supporting survey within 2 years [S+]. While well supported, the estimate still carries a risk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

- 2009: Estimate based on reported administrative estimate. Hib vaccine introduced in 2009 Vaccine presentation is DTP-HepB-Hib. Estimate challenged by: S-
- 2010: Estimate based on reported administrative estimate. Estimate challenged by: D-S-
- 2011: Estimate based on coverage reported by national government. Estimate challenged by: D-S-
- 2012: Estimate based on coverage reported by national government. Estimate challenged by: D-S-
- 2013: Estimate based on coverage reported by national government. Estimate challenged by: D-S-

Comoros - RotaC

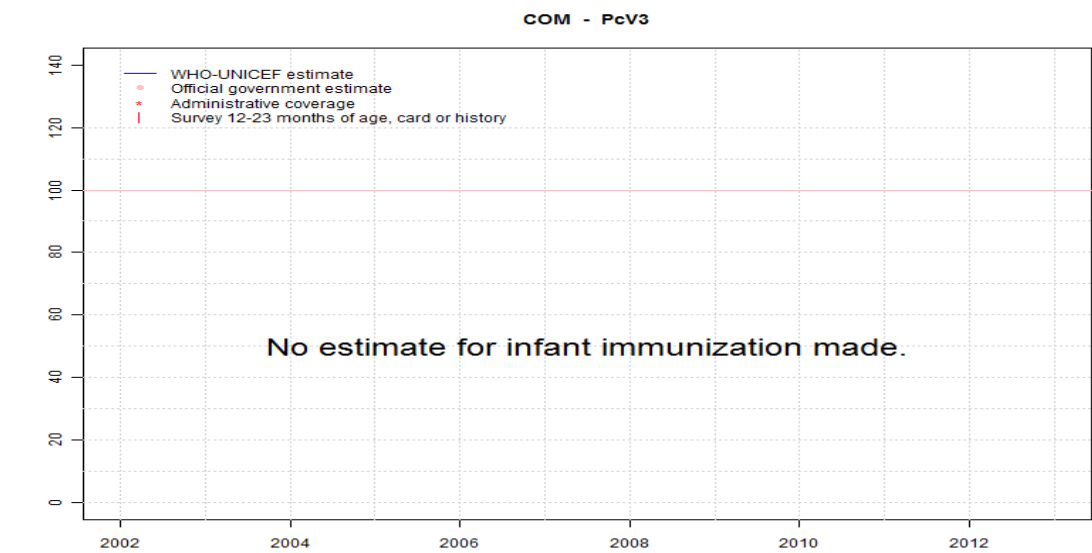


	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Estimate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Estimate GoC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Official	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Administrative	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Survey	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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.



	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.

Comoros - survey details

2012 Enquête de la Couverture Vaccinale post Campagne du Rougeole et de la Vaccination de Routine dans l'Union des Comores

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	Card or History	87	12-23 m	750	75
DTP1	Card or History	89	12-23 m	750	75
DTP3	Card or History	84	12-23 m	750	75
MCV	Card or History	77	12-23 m	750	75
Pol1	Card or History	84	12-23 m	750	75
Pol3	Card or History	84	12-23 m	750	75

2011 Enquête Démographique et de Santé et à Indicateurs Multiples aux Comores EDSC-MICS- 2012 (Rapport Préliminaire)

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	Card or History	85	12-23 m	660	73
DTP1	Card or History	82	12-23 m	660	73
DTP3	Card or History	73	12-23 m	660	73
MCV	Card or History	75	12-23 m	660	73
Pol1	Card or History	87	12-23 m	660	73
Pol3	Card or History	71	12-23 m	660	73

2009 Enquête de couverture vaccinale en Union des Comores (Octobre 2010)

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	Card or History	87	12-23 m	325	63
DTP1	Card or History	84	12-23 m	325	63
DTP3	Card or History	80	12-23 m	325	63
HepB1	Card or History	84	12-23 m	325	63
HepB3	Card or History	80	12-23 m	325	63
MCV	Card or History	67	12-23 m	325	63
Pol1	Card or History	82	12-23 m	325	63

Pol3 Card or History 80 12-23 m 325 63

2006 Enquête de couverture vaccinale en Union des Comores (Novembre 2007)

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	Card or History	95	12-23 m	217	77
DTP1	Card or History	92	12-23 m	217	77
DTP3	Card or History	82	12-23 m	217	77
HepB1	Card or History	92	12-23 m	217	77
HepB3	Card or History	82	12-23 m	217	77
MCV	Card or History	70	12-23 m	217	77

1999 Comores, Enquête à Indicateurs Multiples (MICS 2000), 2001

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	Card	85	12-23 m	956	71
BCG	Card or History	79	12-23 m	956	71
BCG	History	4	12-23 m	956	71
DTP1	Card	80	12-23 m	956	71
DTP1	Card or History	73	12-23 m	956	71
DTP1	History	5	12-23 m	956	71
DTP3	Card	74	12-23 m	956	71
DTP3	Card or History	70	12-23 m	956	71
DTP3	History	3	12-23 m	956	71
MCV	Card	56	12-23 m	956	71
MCV	Card or History	73	12-23 m	956	71
MCV	History	4	12-23 m	956	71
Pol1	Card	85	12-23 m	956	71
Pol1	Card or History	75	12-23 m	956	71
Pol1	History	3	12-23 m	956	71
Pol3	Card	78	12-23 m	956	71
Pol3	Card or History	70	12-23 m	956	71
Pol3	History	2	12-23 m	956	71

Comoros - survey details

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

Comoros

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	84
2003	93
2004	92
2005	91
2006	88
2007	89
2008	83
2009	83
2010	85
2011	85
2012	85
2013	85

¹ 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.