

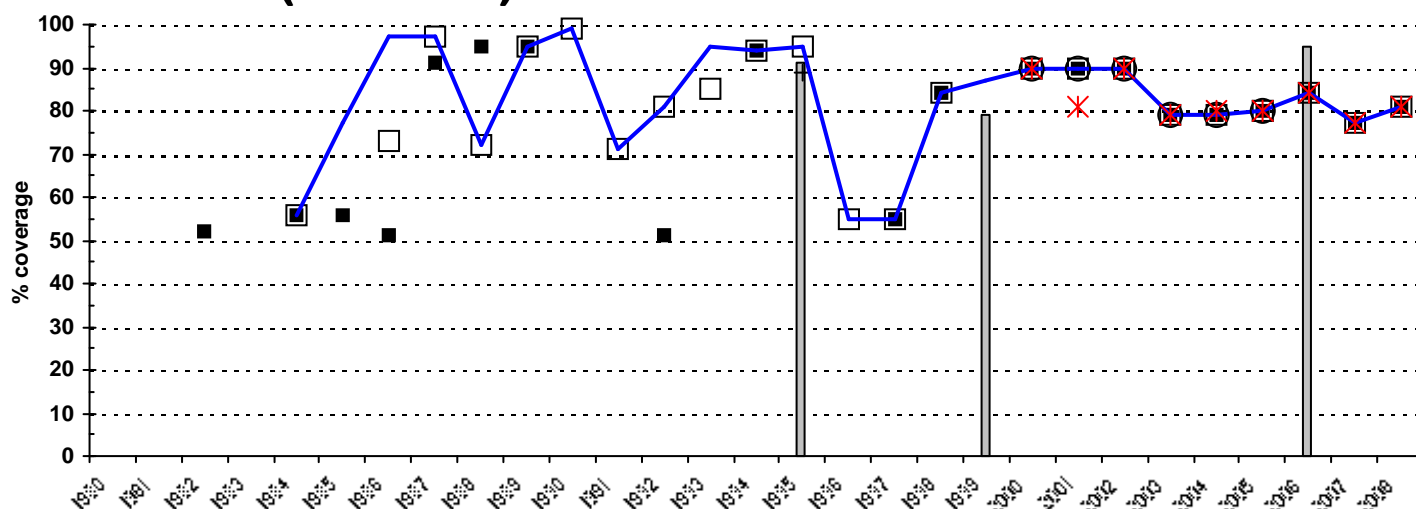
**WHO/UNICEF
Review of National Immunization Coverage
1980-2008**

Comoros

July, 2009

Comoros

BCG (1980-2008)



Description of trend

Estimated immunization coverage levels are based on reported data. DHS 1997 and MICS 2000 support official reports. The 2006 EPI survey point (sample size 217 children) suggest that coverage may be higher.

Data presented in chart

Year	WHO/ UNICEF estimate (%)	Reported to:*		Government official estimate (%)	Reported doses administered (%)**	Survey data (%)***	
		WHO (%)	UNICEF (%)			Survey 12-23 months	Survey <12 months
1980							
1981							
1982			52				
1983							
1984	56	56	56				
1985	77		56				
1986	97	73	51				
1987	97	97	91				
1988	72	72	95				
1989	95	95	95				
1990	99	99					
1991	71	71					
1992	81	81	51				
1993	95	85					
1994	94	94	94				
1995	95	95				91	89
1996	55	55					
1997	55	55	55				
1998	84	84	84				
1999	87					79	
2000	90	90	90	90	90		
2001	90	90	90	90	81		
2002	90	90	90	90	90		
2003	79	79	79	79	79		
2004	79	79	79	79	80		
2005	80	80	80	80	80		
2006	84	84	84	84	84	95	
2007	77	77	77		77		
2008	81	81	81		81		

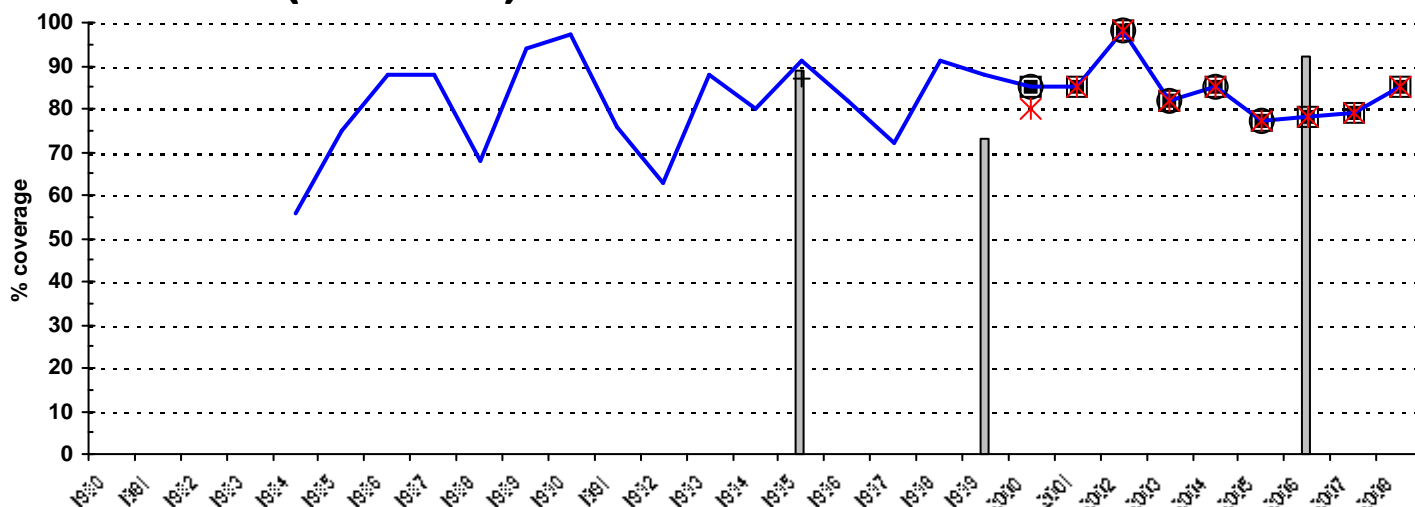
*Prior to 1998 national reports to WHO/UNICEF did not specify whether information was derived from administrative records, surveys or other sources.

**Coverage based on registration of doses administered by health care providers.

***In case more than one survey was implemented in a certain year the highest value is presented. Details of all data are presented in the second section of this report.

Comoros

DTP1 (1980-2008)



Description of trend

WHO and UNICEF began requesting data on DTP1 coverage in 2001 and have received national reports reflecting DTP1 coverage from 2001 onward. The DTP1 estimates from 2000-2004 are based on these reports. For years prior to 2000 the estimates are derived from the WHO/UNICEF estimates of DTP3 and the relationship between the levels of DTP3 coverage and the drop-out between DTP1 and DTP3. This relationship results from an analysis of 282 surveys conducted in 101 countries which were published between 1980 and 2004. The 2006 EPI survey point (sample size 217 children) suggest that coverage may be higher.

Data presented in chart

Year	WHO/ UNICEF estimate (%)	Reported to:*		Government official estimate (%)	Reported doses administered (%)**	Survey data (%)***	
		WHO (%)	UNICEF (%)			Survey 12-23 months	Survey <12 months
1980							
1981							
1982							
1983							
1984	56						
1985	75						
1986	88						
1987	88						
1988	68						
1989	94						
1990	97						
1991	76						
1992	63						
1993	88						
1994	80						
1995	91					89	87
1996	82						
1997	72						
1998	91						
1999	88					73	
2000	85	85	85	85	80		
2001	85	85	85	85	85		
2002	98	98	98	98	98		
2003	82	82	82	82	82		
2004	85	85	85	85	85		
2005	77	77	77	77	77		
2006	78	78	78	78	78	92	
2007	79	79	79	79	79		
2008	85	85	85	85	85		

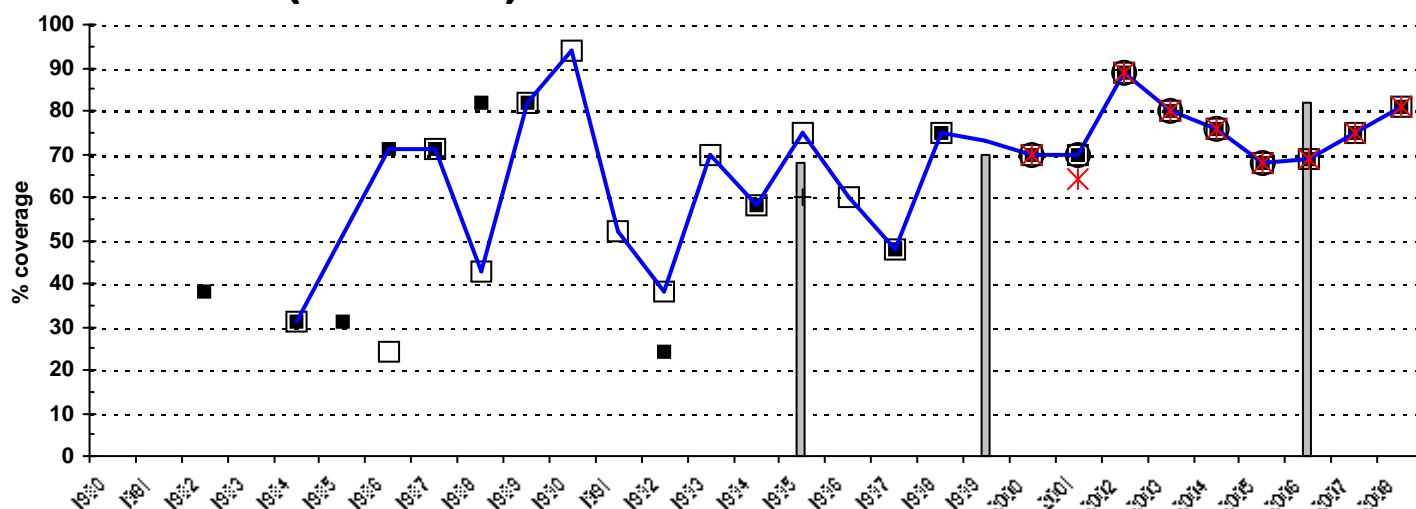
*Prior to 1998 national reports to WHO/UNICEF did not specify whether information was derived from administrative records, surveys or other sources.

**Coverage based on registration of doses administered by health care providers.

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Comoros

DTP3 (1980-2008)



Description of trend

Estimated immunization coverage levels are based on reported data. DHS 1997 and MICS 2000 support official reports. The 2006 EPI survey point (sample size 217 children) suggest that coverage may be higher.

Data presented in chart

Year	WHO/ UNICEF estimate (%)	Reported to:*		Government official estimate (%)	Reported doses administered (%)**	Survey data (%)***	
		WHO (%)	UNICEF (%)			Survey 12-23 months	Survey <12 months
1980							
1981							
1982			38				
1983							
1984	31	31	31				
1985	51		31				
1986	71	24	71				
1987	71	71	71				
1988	43	43	82				
1989	82	82	82				
1990	94						
1991	52	52					
1992	38	38	24				
1993	70	70					
1994	58	58	58				
1995	75	75				68	60
1996	60	60					
1997	48	48	48				
1998	75	75	75				
1999	73					70	
2000	70	70	70	70	70		
2001	70	70	70	70	64		
2002	89	89	89	89	89		
2003	80	80	80	80	80		
2004	76	76	76	76	76		
2005	68	68	68	68	68		
2006	69	69	69	68	69	82	
2007	75	75	75		75		
2008	81	81	81		81		

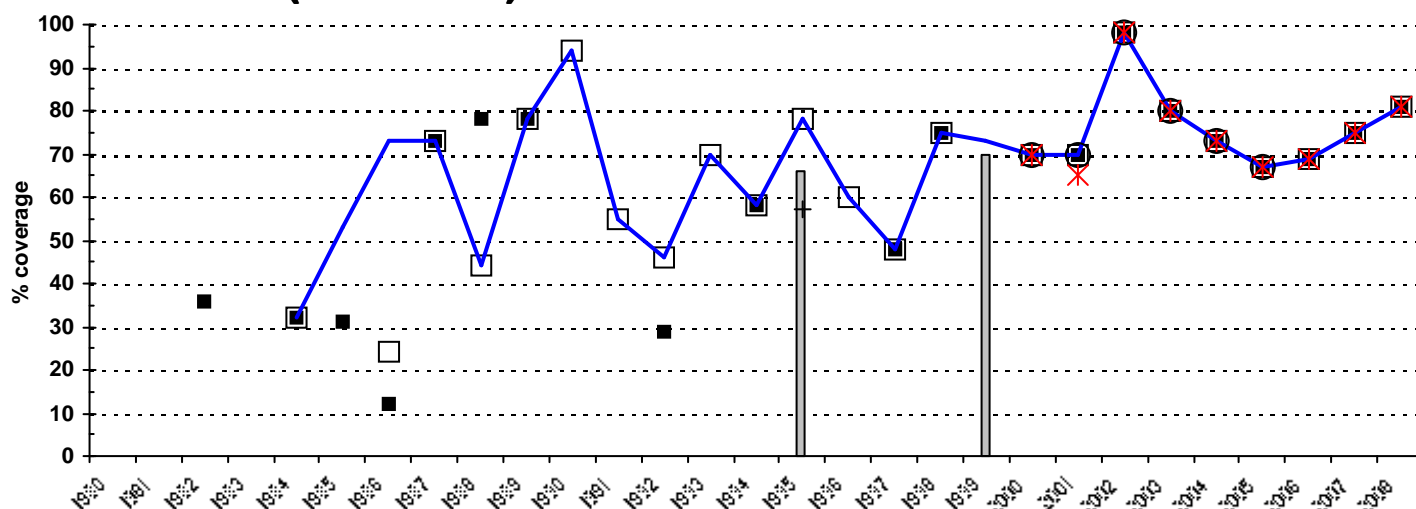
*Prior to 1998 national reports to WHO/UNICEF did not specify whether information was derived from administrative records, surveys or other sources.

**Coverage based on registration of doses administered by health care providers.

***In case more than one survey was implemented in a certain year the highest value is presented. Details of all data are presented in the second section of this report.

Comoros

Pol3 (1980-2008)



Description of trend

Estimated immunization coverage levels are based on reported data. DHS 1997 and MICS 2000 support official reports.

Data presented in chart

Year	WHO/ UNICEF estimate (%)	Reported to:*		Government official estimate (%)	Reported doses administered (%)**	Survey data (%)***	
		WHO (%)	UNICEF (%)			Survey 12-23 months	Survey <12 months
1980							
1981							
1982			36				
1983							
1984	32	32	32				
1985	53		31				
1986	73	24	12				
1987	73	73					
1988	44	44	78				
1989	78	78	78				
1990	94	94					
1991	55	55					
1992	46	46	29				
1993	70	70					
1994	58	58	58				
1995	78	78				66	57
1996	60	60					
1997	48	48	48				
1998	75	75	75				
1999	73					70	
2000	70	70	70	70	70		
2001	70	70	70	70	65		
2002	98	98	98	98	98		
2003	80	80	80	80	80		
2004	73	73	73	73	73		
2005	67	67	67	67	67		
2006	69	69	69	69	69		
2007	75	75	75	75	75		
2008	81	81	81	81	81		

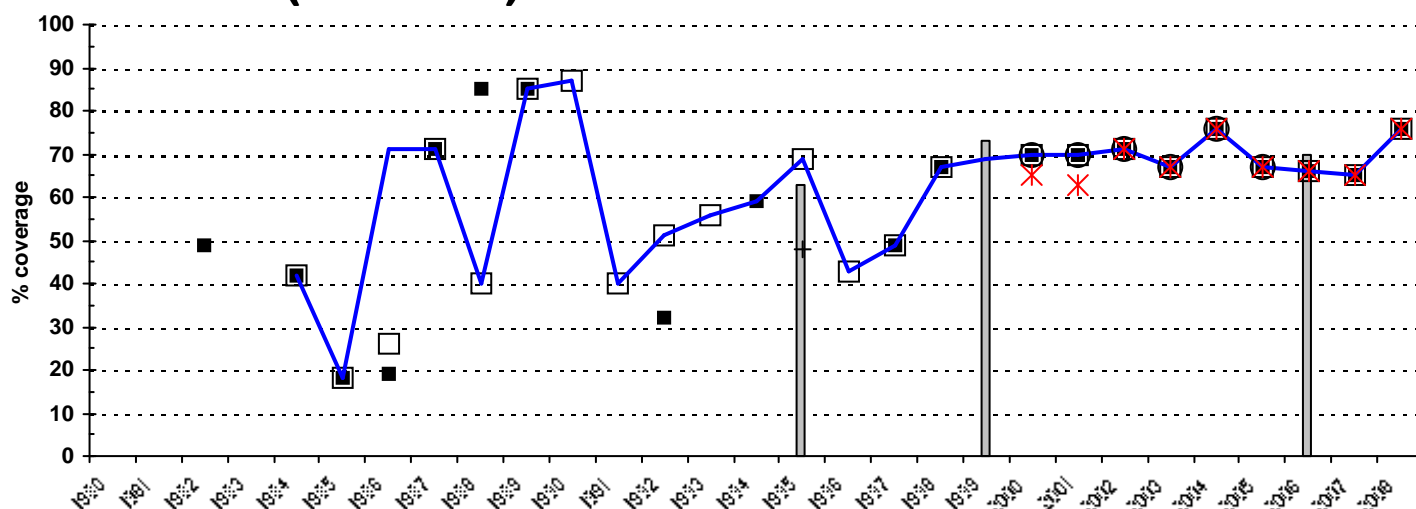
*Prior to 1998 national reports to WHO/UNICEF did not specify whether information was derived from administrative records, surveys or other sources.

**Coverage based on registration of doses administered by health care providers.

***In case more than one survey was implemented in a certain year the highest value is presented. Details of all data are presented in the second section of this report.

Comoros

MCV (1980-2008)



Description of trend

Estimated immunization coverage levels are based on reported data. DHS 1997 and MICS 2000 supports official reports. The 2006 EPI survey point (sample size 217 children) suggest that coverage may be higher.

Data presented in chart

Year	WHO/ UNICEF estimate (%) —	Reported to:*		Government official estimate (%) ○	Reported doses administered (%)** ✕	Survey data (%)***	
		WHO (%) □	UNICEF (%) ■			Survey 12-23 months 	Survey <12 months +
1980							
1981							
1982			49				
1983							
1984	42	42	42				
1985	18	18	18				
1986	71	26	19				
1987	71	71	71				
1988	40	40	85				
1989	85	85	85				
1990	87	87					
1991	40	40					
1992	51	51	32				
1993	56	56					
1994	59		59				
1995	69	69				63	48
1996	43	43					
1997	49	49	49				
1998	67	67	67				
1999	69					73	
2000	70	70	70	70	65		
2001	70	70	70	70	63		
2002	71	71	71	71	71		
2003	67	67	67	67	67		
2004	76	76	76	76	76		
2005	67	67	67	67	67		
2006	66	66	66	67	66	70	
2007	65	65	65		65		
2008	76	76	76		76		

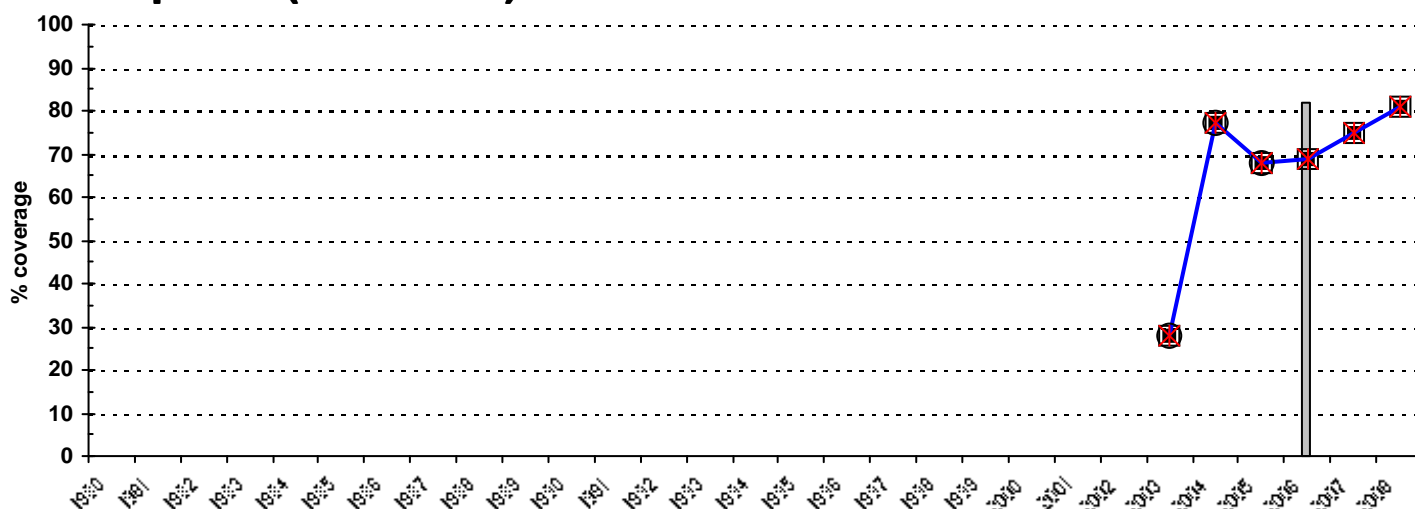
*Prior to 1998 national reports to WHO/UNICEF did not specify whether information was derived from administrative records, surveys or other sources.

**Coverage based on registration of doses administered by health care providers.

***In case more than one survey was implemented in a certain year the highest value is presented. Details of all data are presented in the second section of this report.

Comoros

HepB3 (1980-2008)



Description of trend

Hepatitis B vaccine introduced in mid 2003. Estimated immunization coverage levels are based on reported data. No survey data are available for 2006. The 2006 EPI survey point (sample size 217 children) suggest that coverage may be higher.

Data presented in chart

Year	WHO/ UNICEF estimate (%)	Reported to:*		Government official estimate (%)	Reported doses administered (%)**	Survey data (%)***	
		WHO (%)	UNICEF (%)			Survey 12-23 months	Survey <12 months
1980							
1981							
1982							
1983							
1984							
1985							
1986							
1987							
1988							
1989							
1990							
1991							
1992							
1993							
1994							
1995							
1996							
1997							
1998							
1999							
2000							
2001							
2002							
2003	28	28	28	28	28		
2004	77	77	77	77	77		
2005	68	68	68	68	68		
2006	69	69	69	69	69	82	
2007	75	75	75	75	75		
2008	81	81	81	81	81		

*Prior to 1998 national reports to WHO/UNICEF did not specify whether information was derived from administrative records, surveys or other sources.

**Coverage based on registration of doses administered by health care providers.

***In case more than one survey was implemented in a certain year the highest value is presented. Details of all data are presented in the second section of this report.

Comoros

Details Survey Data

Year Source

Antigen	Confirmation method	% coverage	Compliance with schedule	Age group	Sample size	% cards seen	Survey year	Comments
2006 Enquête de couverture vaccinale en Union des Comores (Novembre 2007)								
BCG	Card or History	94.9		12-23 m	217	77.4	2007	
DTP1	Card or History	92.2		12-23 m	217	77.4	2007	
DTP3	Card or History	82		12-23 m	217	77.4	2007	
MCV	Card or History	70.5		12-23 m	217	77.4	2007	
HepB	Card or History	82		12-23 m	217	77.4	2007	
1999 Comores, Enquête à Indicateurs Multiples (MICS 2000), 2001								
BCG	Card or History	79.1		12-23 m	956	71.4	2000	
DTP1	Card or History	73		12-23 m	956	71.4	2000	
DTP3	Card or History	70		12-23 m	956	71.4	2000	
Pol3	Card or History	70.4		12-23 m	956	71.4	2000	
MCV	Card or History	72.9		12-23 m	956	71.4	2000	
PAB	Card or History	46.3		Women 15-49			2000	
1995 Enquête Démographique et de Santé Comores 1996, 1997								
BCG	Card or History	90.8		12-23 m	369	74.3	1996	
BCG	C or H <12 month	89.1		12-23 m	369	74.3	1996	
DTP1	Card or History	88.6		12-23 m	369	74.3	1996	
DTP1	C or H <12 month	86.6		12-23 m	369	74.3	1996	
DTP3	Card or History	68.3		12-23 m	369	74.3	1996	
DTP3	C or H <12 month	59.6		12-23 m	369	74.3	1996	
Pol3	Card or History	65.6		12-23 m	369	74.3	1996	
Pol3	C or H <12 month	57.2		12-23 m	369	74.3	1996	
MCV	Card or History	63.4		12-23 m	369	74.3	1996	
MCV	C or H <12 month	48		12-23 m	369	74.3	1996	

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.

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.

Comoros

Year	PAB coverage estimate (%)
1980	
1981	
1982	
1983	
1984	14
1985	13
1986	24
1987	31
1988	33
1989	64
1990	78
1991	44
1992	37
1993	48
1994	58
1995	67
1996	50
1997	41
1998	44
1999	50
2000	57
2001	70
2002	84
2003	93
2004	92
2005	91
2006	88
2007	89
2008	83