

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

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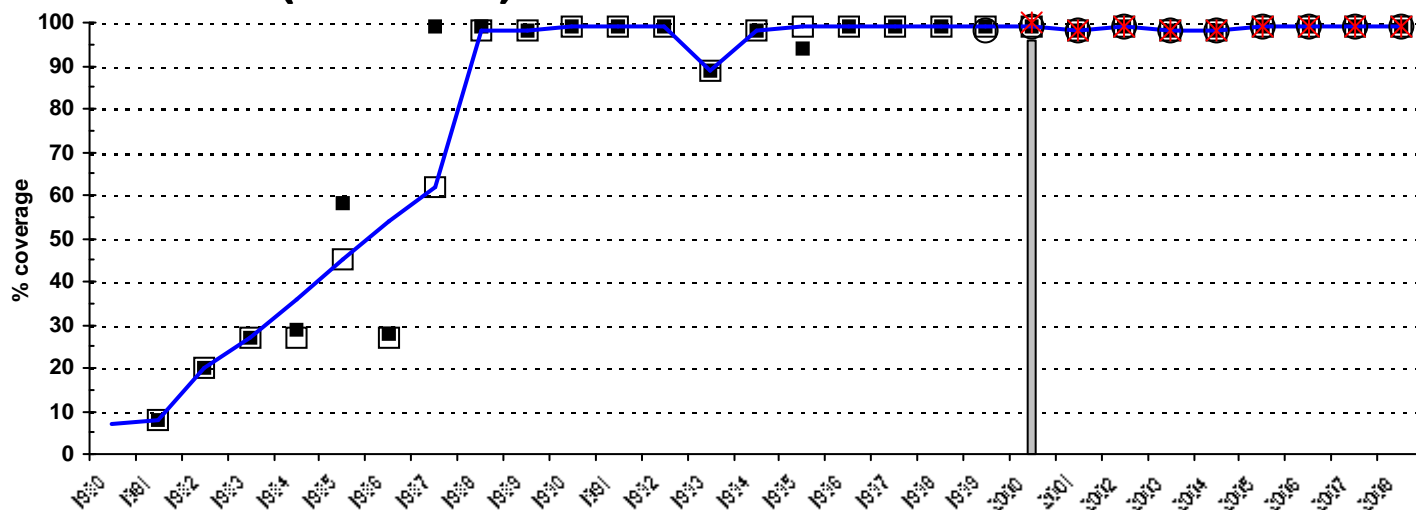
***Maldives***

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**July, 2009**

# Maldives

## BCG (1980-2008)



### Description of trend

Estimated immunization coverage levels are based on officially reported data.

### 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	7						
1981	8	8	8				
1982	20	20	20				
1983	27	27	27				
1984	36	27	29				
1985	45	45	58				
1986	54	27	28				
1987	62	62	99				
1988	98	98	99				
1989	98	98	98				
1990	99	99	99				
1991	99	99	99				
1992	99	99	99				
1993	89	89	89				
1994	98	98	98				
1995	99	99	94				
1996	99	99	99				
1997	99	99	99				
1998	99	99	99				
1999	99	99	99	98			
2000	99	99	99	99	100	96	
2001	98	98	98	98	98		
2002	99	99	99	99	99		
2003	98	98	98	98	98		
2004	98	98	98	98	98		
2005	99	99	99	99	99		
2006	99	99	99	99	99		
2007	99	99	99	99	99		
2008	99	99	99	99	99		

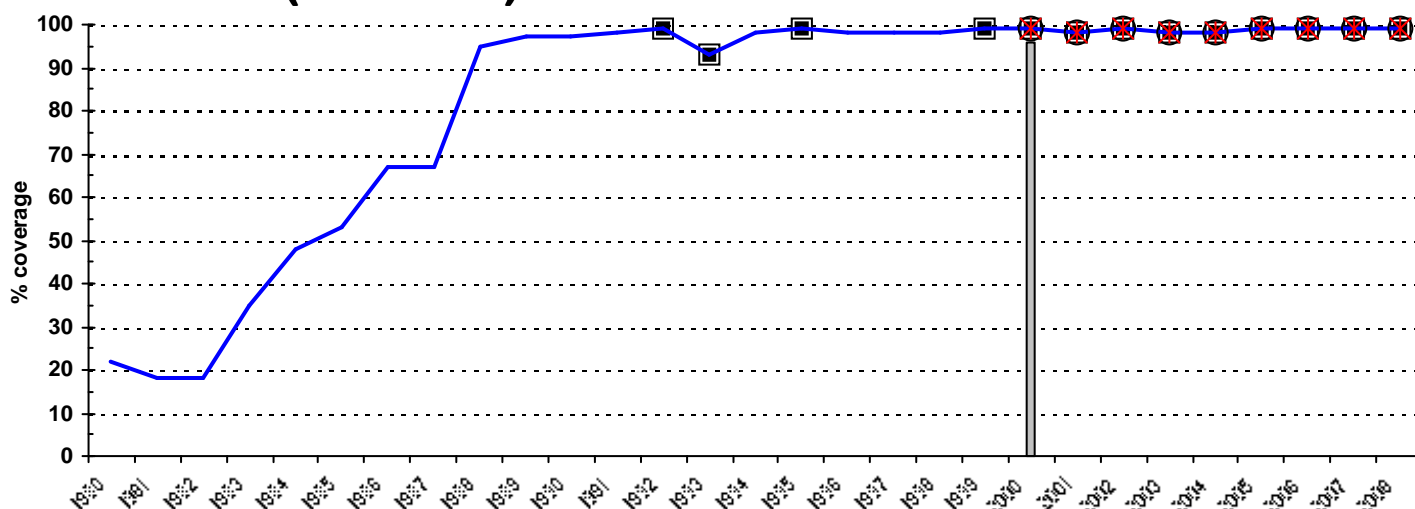
\*Prior to 1998 national reports to WHO/UNICEF did not specify whether information was derived from administrative records, surveys or other sources.

\*\*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.

# Maldives

## 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 onward 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.

### 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	22						
1981	18						
1982	18						
1983	35						
1984	48						
1985	53						
1986	67						
1987	67						
1988	95						
1989	97						
1990	97						
1991	98						
1992	99	99	99				
1993	93	93	93				
1994	98						
1995	99	99	99				
1996	98						
1997	98						
1998	98						
1999	99	99	99				
2000	99	99	99	99	99	96	
2001	98	98	98	98	98		
2002	99	99	99	99	99		
2003	98	98	98	98	98		
2004	98	98	98	98	98		
2005	99	99	99	99	99		
2006	99	99	99	99	99		
2007	99	99	99	99	99		
2008	99	99	99	99	99		

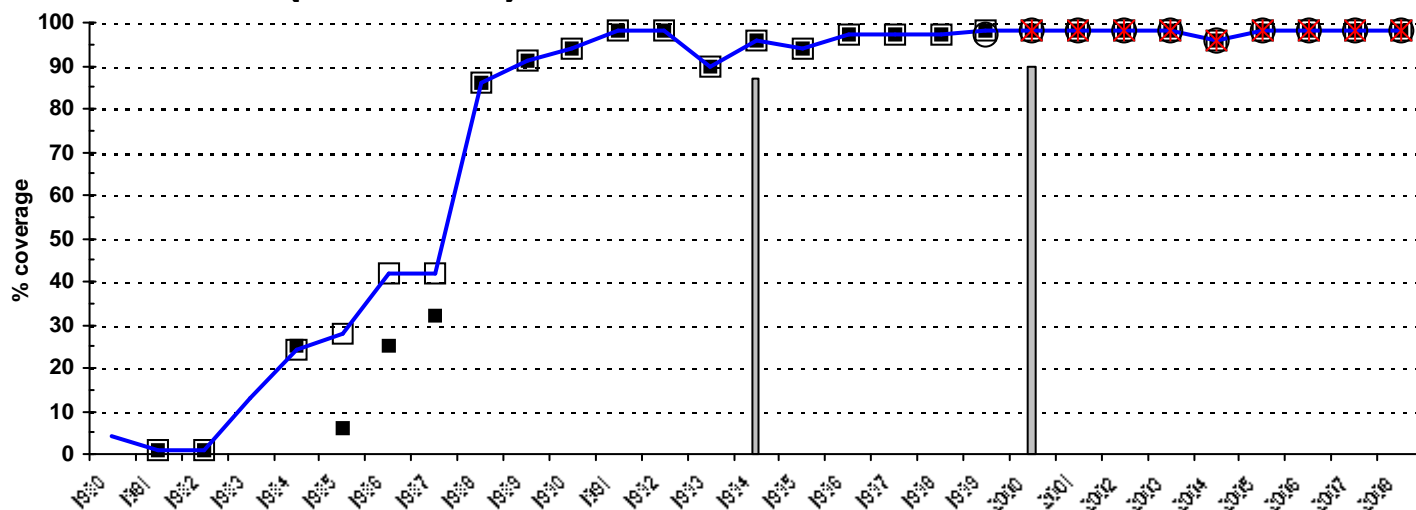
\*Prior to 1998 national reports to WHO/UNICEF did not specify whether information was derived from administrative records, surveys or other sources.

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

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# Maldives

## DTP3 (1980-2008)



### Description of trend

Estimated immunization coverage levels are based on officially reported data, supported by surveys.

### 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	4						
1981	1	1	1				
1982	1	1	1				
1983	13						
1984	24	24	25				
1985	28	28	6				
1986	42	42	25				
1987	42	42	32				
1988	86	86	86				
1989	91	91	91				
1990	94	94	94				
1991	98	98	98				
1992	98	98	98				
1993	90	90	90				
1994	96	96	96			87	
1995	94	94	94				
1996	97	97	97				
1997	97	97	97				
1998	97	97	97				
1999	98	98	98	97			
2000	98	98	98	98	98	90	
2001	98	98	98	98	98		
2002	98	98	98	98	98		
2003	98	98	98	98	98		
2004	96	96	96	96	96		
2005	98	98	98	98	98		
2006	98	98	98	98	98		
2007	98	98	98	98	98		
2008	98	98	98	98	98		

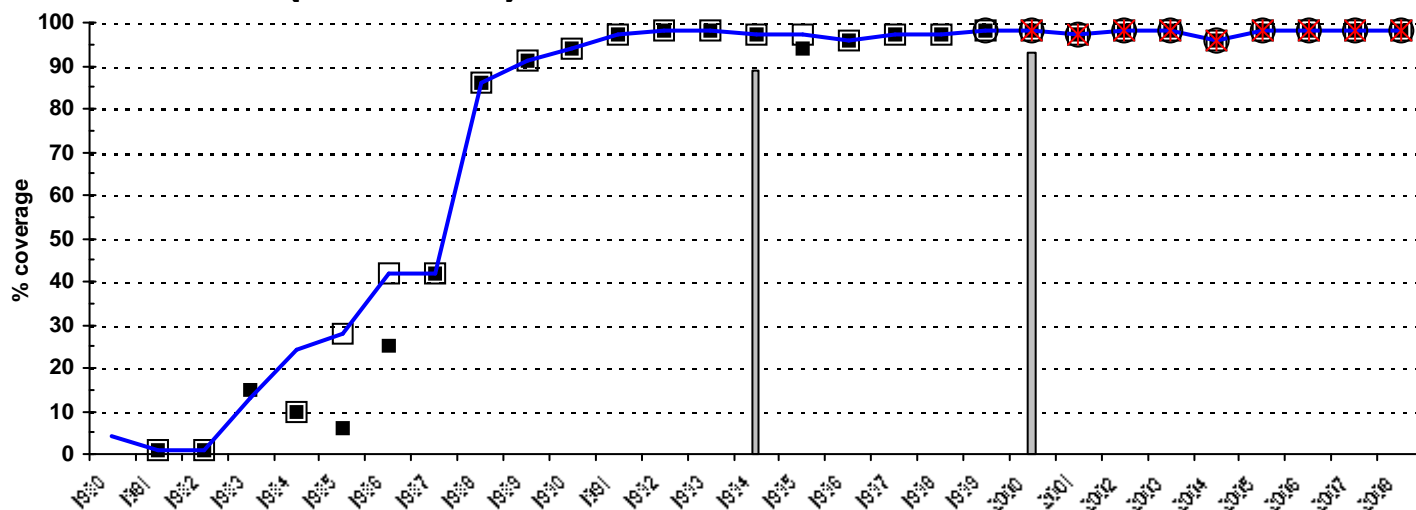
\*Prior to 1998 national reports to WHO/UNICEF did not specify whether information was derived from administrative records, surveys or other sources.

\*\*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.

# Maldives

## Pol3 (1980-2008)



### Description of trend

Estimated immunization coverage levels are based on officially reported data, supported by surveys.

### 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	4						
1981	1	1	1				
1982	1	1	1				
1983	13		15				
1984	24	10	10				
1985	28	28	6				
1986	42	42	25				
1987	42	42	42				
1988	86	86	86				
1989	91	91	91				
1990	94	94	94				
1991	97	97	97				
1992	98	98	98				
1993	98	98	98				
1994	97	97	97			89	
1995	97	97	94				
1996	96	96	96				
1997	97	97	97				
1998	97	97	97				
1999	98	98	98	98			
2000	98	98	98	98	98	93	
2001	97	97	97	97	97		
2002	98	98	98	98	98		
2003	98	98	98	98	98		
2004	96	96	96	96	96		
2005	98	98	98	98	98		
2006	98	98	98	98	98		
2007	98	98	98	98	98		
2008	98	98	98	98	98		

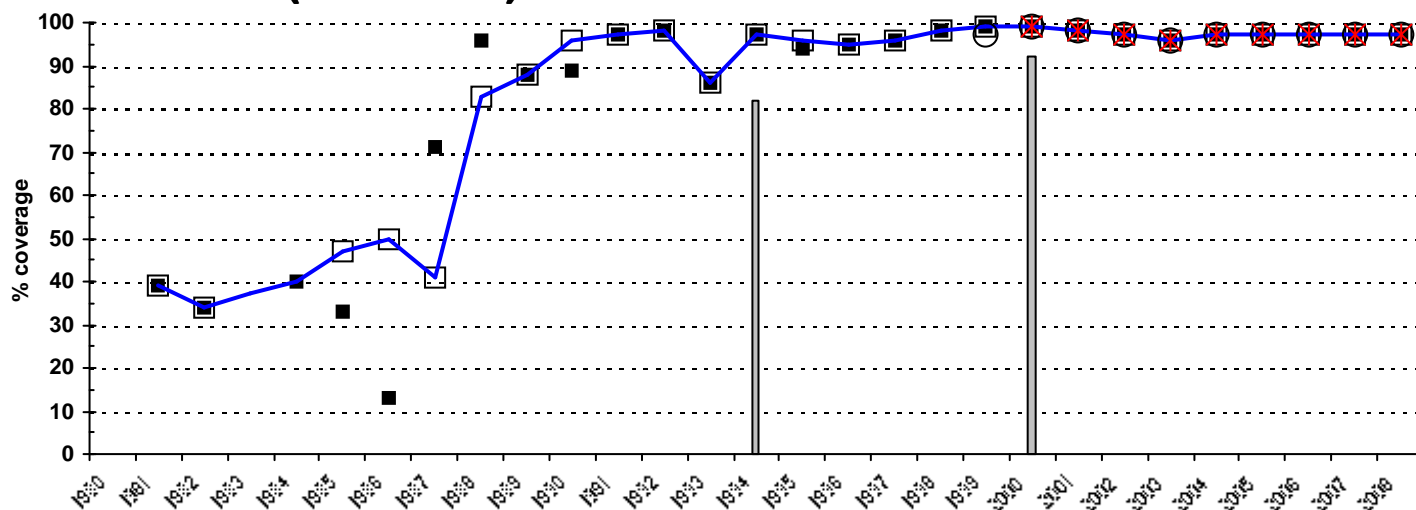
\*Prior to 1998 national reports to WHO/UNICEF did not specify whether information was derived from administrative records, surveys or other sources.

\*\*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.

# Maldives

## MCV (1980-2008)



### Description of trend

Estimated immunization coverage levels are based on officially reported data, supported by surveys.

### 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	39	39	39				
1981	39	39	39				
1982	34	34	34				
1983	37						
1984	40		40				
1985	47	47	33				
1986	50	50	13				
1987	41	41	71				
1988	83	83	96				
1989	88	88	88				
1990	96	96	89				
1991	97	97	97				
1992	98	98	98				
1993	86	86	86				
1994	97	97	97			82	
1995	96	96	94				
1996	95	95	95				
1997	96	96	96				
1998	98	98	98				
1999	99	99	99	97			
2000	99	99	99	99	99	92	
2001	98	98	98	98	98		
2002	97	97	97	97	97		
2003	96	96	96	96	96		
2004	97	97	97	97	97		
2005	97	97	97	97	97		
2006	97	97	97	97	97		
2007	97	97	97	97	97		
2008	97	97	97	97	97		

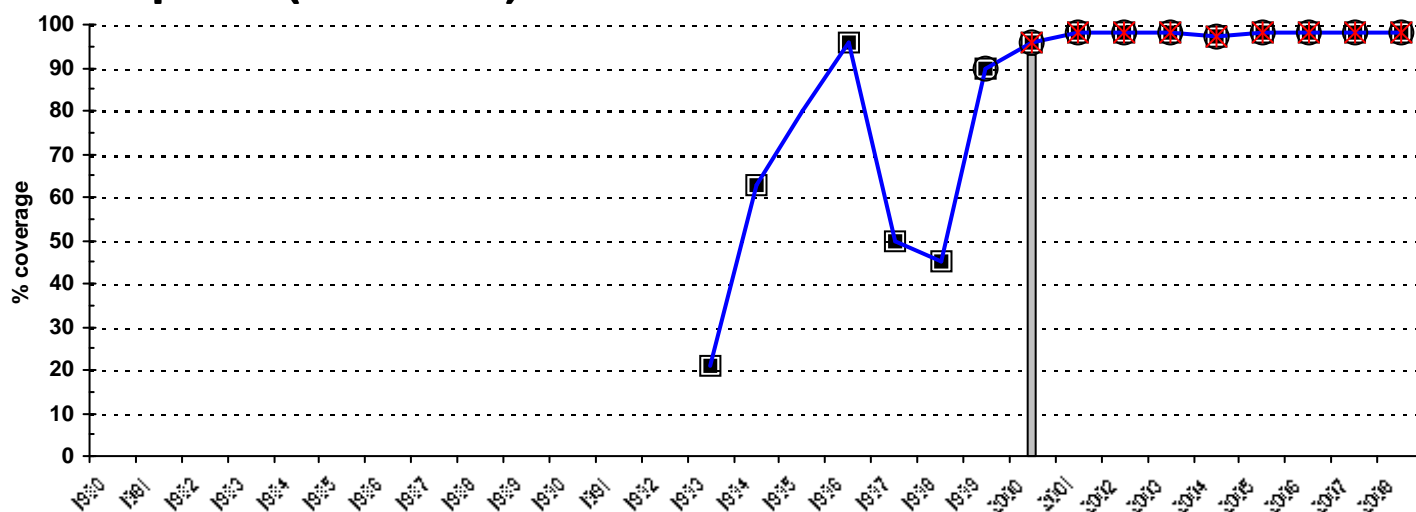
\*Prior to 1998 national reports to WHO/UNICEF did not specify whether information was derived from administrative records, surveys or other sources.

\*\*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.

# Maldives

## HepB3 (1980-2008)



### Description of trend

Hepatitis B vaccine introduced in 1993. Estimated immunization coverage levels are based on officially reported data, supported by survey. Fluctuations are the result of an unstable supply of vaccines.

### 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	21	21	21				
1994	63	63	63				
1995	80						
1996	96	96	96				
1997	50	50	50				
1998	45	45	45				
1999	90	90	90	90			
2000	96	96	96	96	96	93	
2001	98	98	98	98	98		
2002	98	98	98	98	98		
2003	98	98	98	98	98		
2004	97	97	97	97	97		
2005	98	98	98	98	98		
2006	98	98	98	98	98		
2007	98	98	98	98	98		
2008	98	98	98	98	98		

\*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.

# Maldives

## Details Survey Data

### Year Source

Antigen	Confirmation method	% coverage	Compliance with schedule	Age group	Sample size	% cards seen	Survey year	Comments
<b>2000 Maldives Multiple Indicator Cluster Survey 2001</b>								
BCG	Card or History	95.6		12-23 m	158		2001	
DTP1	Card or History	95.6		12-23 m	158		2001	
DTP3	Card or History	90.5		12-23 m	158		2001	
Pol3	Card or History	93		12-23 m	158		2001	
MCV	Card or History	92.4		12-23 m	158		2001	
HepB	Card or History	93		12-23 m	158		2001	

### 1994 Maldives Multiple Indicator Survey Report 1995, 1996

DTP1	Card or History			12-23 m	210		1995	
DTP3	Card or History	87		12-23 m	210		1995	
Pol3	Card or History	89		12-23 m	210		1995	
MCV	Card or History	82		12-23 m	210		1995	

## **Maldives**

### **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.

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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.

## Maldives

Year	PAB coverage estimate (%)
1980	8
1981	4
1982	28
1983	20
1984	12
1985	25
1986	28
1987	47
1988	53
1989	69
1990	86
1991	89
1992	90
1993	91
1994	91
1995	92
1996	92
1997	93
1998	91
1999	93
2000	95
2001	95
2002	94
2003	94
2004	94
2005	94
2006	94
2007	94
2008	95