

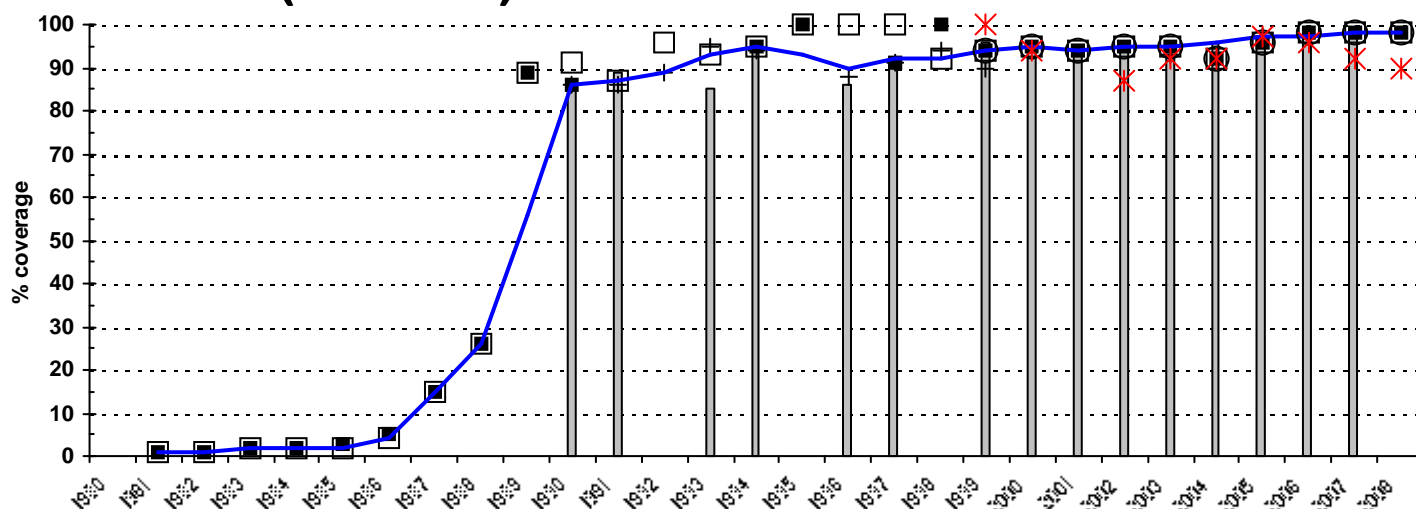
**WHO/UNICEF
Review of National Immunization Coverage
1980-2008**

Bangladesh

July, 2009

Bangladesh

BCG (1980-2008)



Description of trend

Estimated immunization coverage levels are based on reported data, supported by survey results. Coverage increases to 86% in 1990, as a result of the UCI-efforts. BCG estimates from 2004 onward are based on survey results of all immunizations by time of survey. Nationally reported data are for valid doses by 12 months of age.

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	1	1	1				
1982	1	1	1				
1983	2	2	2				
1984	2	2	2				
1985	2	2	3				
1986	4	4	5				
1987	15	15	15				
1988	26	26	26				
1989	56	89	89				
1990	86	91	86			86	86
1991	87	87				89	86
1992	89	96					89
1993	93	93				85	95
1994	95	95	95			95	94
1995	93	100	100				
1996	90	100				86	88
1997	92	100	91			92	91
1998	92	92	100				94
1999	94	94	94	94	100	96	90
2000	95	95	95	95	94	94	
2001	94	94	94	94	101	95	
2002	95	95	95	95	87	95	
2003	95	95	95	95	92	93	93
2004	96	92	92	92	92	96	
2005	97	96	96	96	97	97	97
2006	97	98	98	98	96	97	97
2007	98	98	98	98	92	98	
2008	98	98	98	98	90		

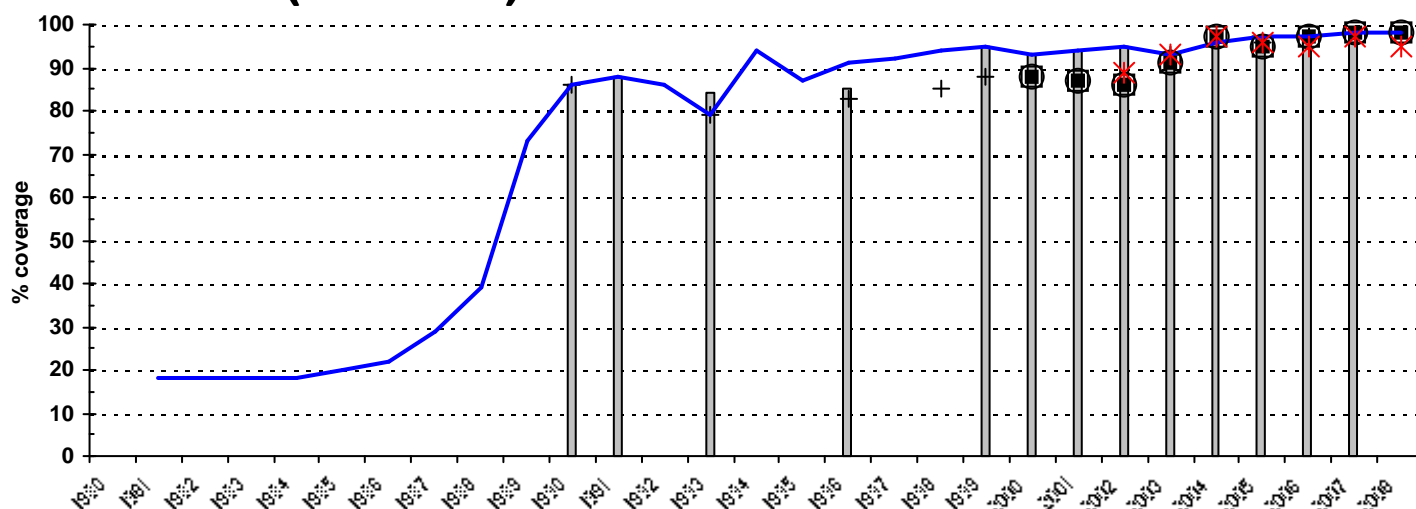
*Prior to 1998 national reports to WHO/UNICEF did not specify whether information was derived from administrative records, surveys or other sources.

**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.

Bangladesh

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 1999 onward are based on survey results. For years prior to 1999 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	18						
1981	18						
1982	18						
1983	18						
1984	18						
1985	20						
1986	22						
1987	29						
1988	39						
1989	73						
1990	86					86	86
1991	88					88	
1992	86						
1993	79					84	79
1994	94						
1995	87						
1996	91					85	83
1997	92						
1998	94						85
1999	95					95	88
2000	93	88	88	88	111	93	
2001	94	87	87	87	102	94	
2002	95	86	86	86	89	95	
2003	93	91	91	91	93	93	93
2004	96	97	97	97	97	96	
2005	97	95	95	95	96	97	96
2006	97	97	97	97	95	97	97
2007	98	98	98	98	97	98	
2008	98	98	98	98	95		

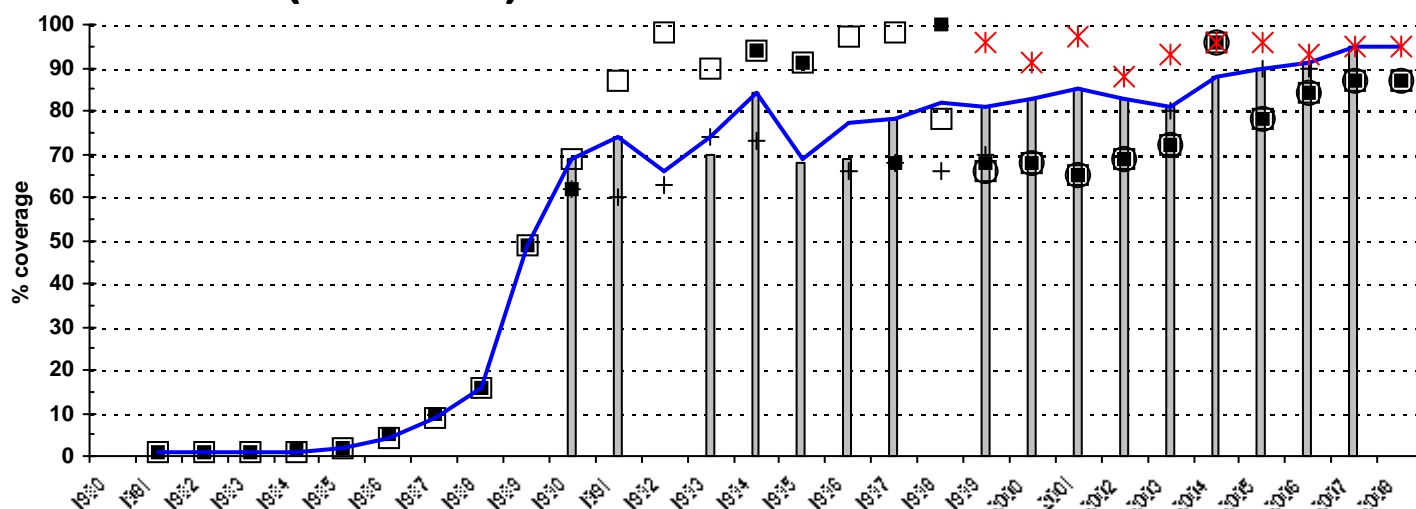
*Prior to 1998 national reports to WHO/UNICEF did not specify whether information was derived from administrative records, surveys or other sources.

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

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Bangladesh

DTP3 (1980-2008)



Description of trend

From 1981-1989 estimates are based on reported data, supported by survey results. Estimates from 1990 onward are based on survey results for all DTP3 immunizations by time of survey. Nationally reported data are for valid doses by 12 months of age.

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	1	1	1				
1982	1	1	1				
1983	1	1	1				
1984	1	1	2				
1985	2	2	2				
1986	4	4	5				
1987	9	9	10				
1988	16	16	16				
1989	49	49	49				
1990	69	69	62			69	62
1991	74	87				74	60
1992	66	98					63
1993	74	90				70	74
1994	84	94	94			84	73
1995	69	91	91			68	
1996	77	97				69	66
1997	78	98	68			78	68
1998	82	78	100				66
1999	81	66	68	66	96	81	70
2000	83	68	68	68	91	83	
2001	85	65	65	65	97	85	
2002	83	69	69	69	88	83	
2003	81	72	72	72	93	81	80
2004	88	96	96	96	96	88	
2005	90	78	78	78	96	90	90
2006	91	84	84	84	93	91	90
2007	95	87	87	87	95	95	
2008	95	87	87	87	95		

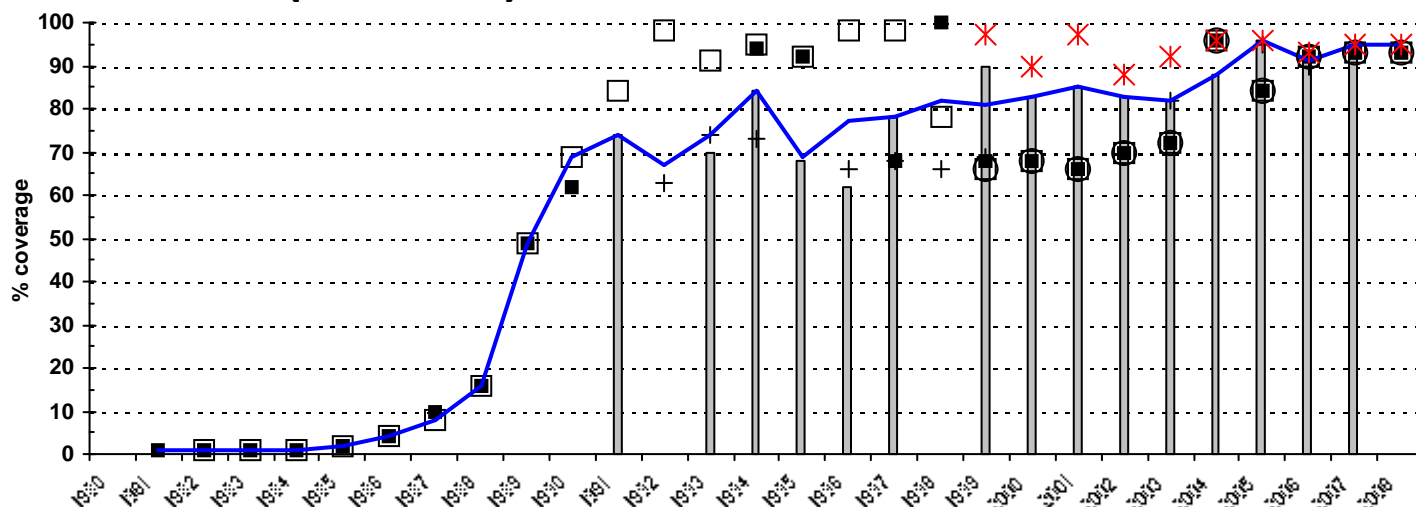
*Prior to 1998 national reports to WHO/UNICEF did not specify whether information was derived from administrative records, surveys or other sources.

**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.

Bangladesh

Pol3 (1980-2008)



Description of trend

From 1981-1989 estimates are based on reported data, supported by survey results. Estimates from 1990 onward are based on survey result Pol3 immunizations by time of survey. Nationally reported data are for valid doses by 12 months of age.

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	1		1				
1982	1	1	1				
1983	1	1	1				
1984	1	1	1				
1985	2	2	2				
1986	4	4	4				
1987	8	8	10				
1988	16	16	16				
1989	49	49	49				
1990	69	69	62				
1991	74	84				74	
1992	67	98					63
1993	74	91				70	74
1994	84	95	94			84	73
1995	69	92	92			68	
1996	77	98				62	66
1997	78	98	68			78	68
1998	82	78	100				66
1999	81	66	68	66	97	90	69
2000	83	68	68	68	90	83	
2001	85	66	66	66	97	85	
2002	83	70	70	70	88	83	
2003	82	72	72	72	92	82	82
2004	88	96	96	96	96	88	
2005	96	84	84	84	96	96	95
2006	91	92	92	92	93	91	90
2007	95	93	93	93	95	95	
2008	95	93	93	93	95		

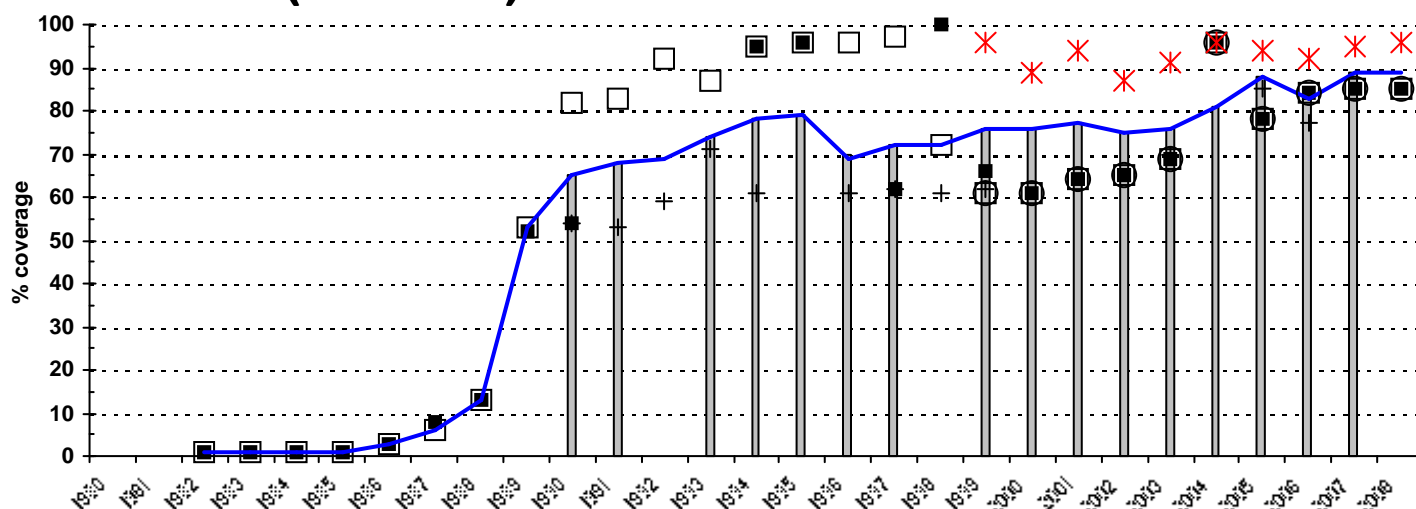
*Prior to 1998 national reports to WHO/UNICEF did not specify whether information was derived from administrative records, surveys or other sources.

**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.

Bangladesh

MCV (1980-2008)



Description of trend

From 1981-1989 estimates are based on reported data, supported by survey results. Estimates from 1990 onward are based on survey results for all measles immunizations by time of survey. Nationally reported data are for valid doses by 12 months of age.

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	1	1	1				
1983	1	1	1				
1984	1	1	1				
1985	1	1	1				
1986	3	3	3				
1987	6	6	8				
1988	13	13	13				
1989	53	53	52				
1990	65	82	54			65	54
1991	68	83				68	53
1992	69	92					59
1993	74	87				74	71
1994	78	95	95			78	61
1995	79	96	96			79	
1996	69	96				70	61
1997	72	97	62			72	62
1998	72	72	100				61
1999	76	61	66	61	96	76	62
2000	76	61	61	61	89	76	
2001	77	64	64	64	94	77	
2002	75	65	65	65	87	75	
2003	76	69	69	69	91	76	70
2004	81	96	96	96	96	81	
2005	88	78	78	78	94	88	85
2006	83	84	84	84	92	83	77
2007	89	85	85	85	95	89	
2008	89	85	85	85	96		

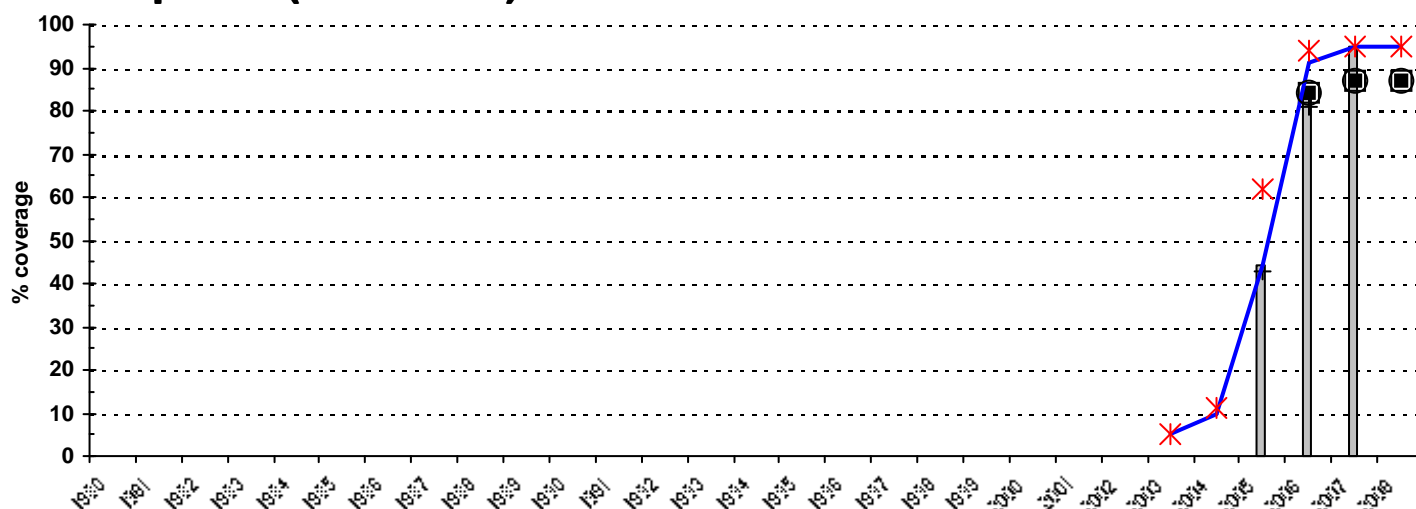
*Prior to 1998 national reports to WHO/UNICEF did not specify whether information was derived from administrative records, surveys or other sources.

**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.

Bangladesh

HepB3 (1980-2008)



Description of trend

HepB3 was introduced in April 2003 in 7 districts and 1 city corporation accounting for approximately 10% of national infant population, and available nationally in October 2005. Estimates for 2006 onward are based on the DTP3 estimate.

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	5				5		
2004	10				11		
2005	44				62	44	43
2006	91	84	84	84	94	83	81
2007	95	87	87	87	95	95	
2008	95	87	87	87	95		

*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.

Bangladesh

Details Survey Data

Year Source

Antigen	Confirmation method	% coverage	Compliance with schedule	Age group	Sample size	% cards seen	Survey year	Comments
2007 Bangladesh EPI Coverage Evaluation Survey 2007								
BCG	Card or History	98.4	Crude	12-23 m	5670	68	2008	
DTP1	Card or History	98.3	Crude	12-23 m	5670	68	2008	
DTP3	Card or History	95.3	Crude	12-23 m	5670	68	2008	
Pol3	Card or History	95.3	Crude	12-23 m	5670	68	2008	
MCV	Card or History	89.2	Crude	12-23 m	5670	68	2008	
HepB	Card or History	95.2	Crude	12-23 m	5670	68	2008	
2006 Bangladesh Demographic and Health Survey 2007								
BCG	Card or History	96.8		12-23 m	1146	58.2	2007	
BCG	C or H <12 month	96.8		12-23 m	1146	58.2	2007	
DTP1	Card or History	96.8		12-23 m	1146	58.2	2007	
DTP1	C or H <12 month	96.8		12-23 m	1146	58.2	2007	
DTP3	Card or History	91.1		12-23 m	1146	58.2	2007	
DTP3	C or H <12 month	90		12-23 m	1146	58.2	2007	
Pol3	Card or History	90.8		12-23 m	1146	58.2	2007	
Pol3	C or H <12 month	89.7		12-23 m	1146	58.2	2007	
MCV	Card or History	83.1		12-23 m	1146	58.2	2007	
MCV	C or H <12 month	77.2		12-23 m	1146	58.2	2007	
HepB	Card or History	82.7		12-23 m	1146	58.2	2007	
HepB	C or H <12 month	81.4		12-23 m	1146	58.2	2007	
PAB	n.a.	90.2		CBAW	4905		2007	
2005 Bangladesh Multiple Indicator Cluster Survey 2006								
BCG	Card or History	97		12-23 m	6032	65.5	2006	
BCG	C or H <12 month	96.7		12-23 m	6032	65.5	2006	
DTP1	Card or History	96.6		12-23 m	6032	65.5	2006	
DTP1	C or H <12 month	96.3		12-23 m	6032	65.5	2006	
DTP3	Card or History	90.1		12-23 m	6032	65.5	2006	
DTP3	C or H <12 month	89.7		12-23 m	6032	65.5	2006	
Pol3	Card or History	95.6		12-23 m	6032	65.5	2006	
Pol3	C or H <12 month	95.1		12-23 m	6032	65.5	2006	
MCV	Card or History	87.5		12-23 m	6032	65.5	2006	
MCV	C or H <12 month	85.3		12-23 m	6032	65.5	2006	
HepB	Card or History	43.6		12-23 m	6032	65.5	2006	
HepB	C or H <12 month	43		12-23 m	6032	65.5	2006	
PAB	n.a.	89.6		CBAW	11899		2006	
2004 Bangladesh EPI Coverage Evaluation Survey 2005								
BCG	Card or History	96	Crude	12-23 m	15120	65	2005	Crude
DTP1	Card or History	96	Crude	12-23 m	15120	65	2005	Crude
DTP3	Card or History	88	Crude	12-23 m	15120	65	2005	Crude
Pol3	Card or History	88	Crude	12-23 m	15120	65	2005	Crude
MCV	Card or History	81	Crude	12-23 m	15120	65	2005	Crude
PAB	Card or History	87	Crude	Women 15-49	15120		2005	Crude
2003 Bangladesh Demographic and Health Survey 2004								
BCG	History	44		12-23 m	1265	49.4	2004	
BCG	Card or history	93.4		12-23 m	1265	49.4	2004	
BCG	Card	49.4		12-23 m	1265	49.4	2004	
BCG	C or H <12 month	93.3		12-23 m	1265	49.4	2004	

Bangladesh

Details Survey Data

Year Source

Antigen	Confirmation method	% coverage	Compliance with schedule	Age group	Sample size	% cards seen	Survey year	Comments
DTP1	History	43.7		12-23 m	1265	49.4	2004	
DTP1	Card or history	93.1		12-23 m	1265	49.4	2004	
DTP1	Card	49.3		12-23 m	1265	49.4	2004	
DTP1	C or H <12 month	92.9		12-23 m	1265	49.4	2004	
DTP3	History	35.2		12-23 m	1265	49.4	2004	
DTP3	Card or history	81		12-23 m	1265	49.4	2004	
DTP3	Card	45.8		12-23 m	1265	49.4	2004	
DTP3	C or H <12 month	80.3		12-23 m	1265	49.4	2004	
Pol3	History	36.5		12-23 m	1265	49.4	2004	
Pol3	Card or history	82.3		12-23 m	1265	49.4	2004	
Pol3	Card	45.8		12-23 m	1265	49.4	2004	
Pol3	C or H <12 month	81.6		12-23 m	1265	49.4	2004	
MCV	History	34		12-23 m	1265	49.4	2004	
MCV	Card or history	75.7		12-23 m	1265	49.4	2004	
MCV	Card	41.7		12-23 m	1265	49.4	2004	
MCV	C or H <12 month	70.3		12-23 m	1265	49.4	2004	

2002 Bangladesh EPI Coverage Evaluation Survey 2003

BCG	Card or History	95		12-23 m			2002	Crude
DTP1	Card or History	95		12-23 m			2002	Crude
DTP3	Card or History	83		12-23 m			2002	Crude
Pol3	Card or History	83		12-23 m			2002	Crude
MCV	Card or History	75		12-23 m			2002	Crude
PAB	Card or History	86		Women 15-49			2002	

2001 Bangladesh EPI Coverage Evaluation Survey 2002

BCG	Card or History	95		12-23 m	15750	54.7	2001	Crude
DTP1	Card or History	94		12-23 m	15750	54.7	2001	Crude
DTP3	Card or History	85		12-23 m	15750	54.7	2001	Crude
Pol3	Card or History	85		12-23 m	15750	54.7	2001	Crude
MCV	Card or History	77		12-23 m	15750	54.7	2001	Crude
PAB	Card or History	86		Women 15-49			2001	

2000 National Coverage Evaluation Survey Bangladesh 2001

BCG	Card or History	94	Crude	12-23 m		52	2001	
DTP1	Card or History	93	Crude	12-23 m		52	2001	
DTP3	Card or History	83	Crude	12-23 m		52	2001	
Pol3	Card or History	83	Crude	12-23 m		52	2001	
MCV	Card or History	76	Crude	12-23 m		52	2001	

1999 Bangladesh Demographic and Health Survey 1999-2000, 2001

BCG	Card or History	91		12-23 m	1316	43.5	1999/2000	
BCG	C or H <12 month	90		12-23 m	1316	43.5	1999/2000	
DTP1	Card or History	88.9		12-23 m	1316	43.5	1999/2000	
DTP1	C or H <12 month	88.4		12-23 m	1316	43.5	1999/2000	
DTP3	Card or History	72.1		12-23 m	1316	43.5	1999/2000	
DTP3	C or H <12 month	70.2		12-23 m	1316	43.5	1999/2000	
Pol3	Card or History	70.8		12-23 m	1316	43.5	1999/2000	
Pol3	C or H <12 month	69.1		12-23 m	1316	43.5	1999/2000	
MCV	Card or History	70.8		12-23 m	1316	43.5	1999/2000	
MCV	C or H <12 month	62.1		12-23 m	1316	43.5	1999/2000	

Bangladesh

Details Survey Data

Year Source

Antigen	Confirmation method	% coverage	Compliance with schedule	Age group	Sample size	% cards seen	Survey year	Comments
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1999 Bangladesh, Multiple Indicator Cluster Survey 2000

BCG	Card or History	92.2		12-23 m			2000	
DTP1	Card or History	91.4		12-23 m			2000	100%- 0 dose (8.6%)
DTP3	Card or History	74.4		12-23 m			2000	
Pol3	Card or History	90.3		12-23 m			2000	
MCV	Card or History	76.1		12-23 m			2000	

1999 National Coverage Evaluation Survey Bangladesh 2000

BCG	Card or History	96	Crude	12-23 m	52		2000	
DTP1	Card or History	95	Crude	12-23 m	52		2000	
DTP3	Card or History	81	Crude	12-23 m	52		2000	
Pol3	Card or History	81	Crude	12-23 m	52		2000	
MCV	Card or History	71	Crude	12-23 m	52		2000	

1998 Results of National Coverage Evaluation Survey, Bangladesh, 1999

BCG	C or H <12 month	93.9	Valid	12-23 m	58.1		1999	national weighted average
DTP1	C or H <12 month	85.2	Valid	12-23 m	58.1		1999	national weighted average
DTP3	C or H <12 month	66.2	Valid	12-23 m	58.1		1999	national weighted average
Pol3	C or H <12 month	66.3	Valid	12-23 m	58.1		1999	national weighted average
MCV	C or H <12 month	61.2	Valid	12-23 m	58.1		1999	national weighted average

1997 National Coverage Evaluation Survey Bangladesh 1998

BCG	Card or History	92	Crude	12-23 m	54		1998	
BCG	C or H <12 month	91		12-23 m	54		1998	
DTP1	Card or History		Crude	12-23 m	54		1998	
DTP1	C or H <12 month			12-23 m	54		1998	
DTP3	Card or History	78	Crude	12-23 m	54		1998	
DTP3	C or H <12 month	68		12-23 m	54		1998	
Pol3	Card or History	78	Crude	12-23 m	54		1998	
Pol3	C or H <12 month	68		12-23 m	54		1998	
MCV	Card or History	72	Crude	12-23 m	54		1998	
MCV	C or H <12 month	62		12-23 m	54		1998	
PAB	Card or History	61		Women 15-49			1998	Births last year

1996 Bangladesh, Demographic and Health Survey 1996-1997, 1997

BCG	Card or History	86.2		12-23 m	1082	42.2	1996/97	
BCG	C or H <12 month	84.2		12-23 m	1082	42.2	1996/97	
DTP1	Card or History	84.9		12-23 m	1082	42.2	1996/97	
DTP1	C or H <12 month	82.6		12-23 m	1082	42.2	1996/97	
DTP3	Card or History	69.3		12-23 m	1082	42.2	1996/97	
DTP3	C or H <12 month	66.5		12-23 m	1082	42.2	1996/97	
Pol3	Card or History	62.3		12-23 m	1082	42.2	1996/97	
Pol3	C or H <12 month	60.1		12-23 m	1082	42.2	1996/97	
MCV	Card or History	69.9		12-23 m	1082	42.2	1996/97	
MCV	C or H <12 month	61.2		12-23 m	1082	42.2	1996/97	

1996 National Coverage Evaluation Survey Bangladesh 1997

DTP1	C or H <12 month	82		12-23 m	58		1997	
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Bangladesh

Details Survey Data

Year Source

Antigen	Confirmation method	% coverage	Compliance with schedule	Age group	Sample size	% cards seen	Survey year	Comments
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1996 National Coverage Evaluation Survey Bangladesh 1997 + Joint Form

BCG	C or H <12 month	87.9		12-23 m		58	1997	
DTP3	C or H <12 month	65.7		12-23 m		58	1997	
Pol3	C or H <12 month	65.7		12-23 m		58	1997	
MCV	C or H <12 month	58.5		12-23 m		58	1997	
PAB	Card or History	66		Women 15-49			1997	Births last year

1995 Achieving the Mid Decade Goals for Children in Bangladesh 1996

BCG	Card or History			12-23 m			1996	Confirmation Method assumed
DTP1	Card or History			12-23 m			1996	Confirmation Method assumed
DTP3	Card or History	68.5		12-23 m			1996	Confirmation Method assumed
Pol3	Card or History	68.5		12-23 m			1996	Confirmation Method assumed
MCV	Card or History	79.4		12-23 m			1996	Confirmation Method assumed

1994 National Coverage Evaluation Survey Bangladesh 1997

BCG	Card or History	95	Crude	12-23 m		67	1995	
BCG	C or H <12 month	94		12-23 m		67	1995	
DTP1	Card or History		Crude	12-23 m		67	1995	
DTP1	C or H <12 month			12-23 m		67	1995	
DTP3	Card or History	84	Crude	12-23 m		67	1995	
DTP3	C or H <12 month	73		12-23 m		67	1995	
Pol3	Card or History	84	Crude	12-23 m		67	1995	
Pol3	C or H <12 month	73		12-23 m		67	1995	
MCV	Card or History	78	Crude	12-23 m		67	1995	
MCV	C or H <12 month	61		12-23 m		67	1995	

1994 Progress toward the Achievement of the Goals for the 1990's, 1995

BCG	Card or History			12-23 m			1995	Confirmation Method assumed
DTP1	Card or History			12-23 m			1995	Confirmation Method assumed
DTP3	Card or History	76.4		12-23 m			1995	Confirmation Method assumed
Pol3	Card or History	76.4		12-23 m			1995	Confirmation Method assumed
MCV	Card or History	78.4		12-23 m			1995	Confirmation Method assumed

1993 Bangladesh, Demographic and Health Survey 1993-1994, 1994

BCG	Card or History	85.4		12-23 m	1171	45.5	1993/94	
BCG	C or H <12 month	79.4		12-23 m	1171	45.5	1993/94	
DTP1	Card or History	83.6		12-23 m	1171	45.5	1993/94	
DTP1	C or H <12 month	78.9		12-23 m	1171	45.5	1993/94	
DTP3	Card or History	66		12-23 m	1171	45.5	1993/94	
DTP3	C or H <12 month	59		12-23 m	1171	45.5	1993/94	
Pol3	Card or History	66.8		12-23 m	1171	45.5	1993/94	
Pol3	C or H <12 month	59.7		12-23 m	1171	45.5	1993/94	
MCV	Card or History	68.9		12-23 m	1171	45.5	1993/94	
MCV	C or H <12 month	55		12-23 m	1171	45.5	1993/94	

1993 National Coverage Evaluation Survey Bangladesh 1997

BCG	C or H <12 month	95		12-23 m		71	1994	
DTP1	C or H <12 month			12-23 m		71	1994	
DTP3	C or H <12 month	74		12-23 m		71	1994	
Pol3	C or H <12 month	74		12-23 m		71	1994	

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Details Survey Data

Year Source

Antigen	Confirmation method	% coverage	Compliance with schedule	Age group	Sample size	% cards seen	Survey year	Comments
MCV	C or H <12 month	71		12-23 m		71	1994	

1993 Progress toward the Achievement of the Goals for the 1990's, 1994

BCG	Card or History			12-23 m			1994	Confirmation Method assumed
DTP1	Card or History			12-23 m			1994	Confirmation Method assumed
DTP3	Card or History	70.1		12-23 m			1994	Confirmation Method assumed
Pol3	Card or History	70.1		12-23 m			1994	Confirmation Method assumed
MCV	Card or History	73.5		12-23 m			1994	Confirmation Method assumed

1992 National Coverage Evaluation Survey Bangladesh 1997

BCG	C or H <12 month	89		12-23 m		63	1993	
DTP1	C or H <12 month			12-23 m		63	1993	
DTP3	C or H <12 month	63		12-23 m		63	1993	
Pol3	C or H <12 month	63		12-23 m		63	1993	
MCV	C or H <12 month	59		12-23 m		63	1993	

1991 Coverage Evaluation Survey Bangladesh 1992

BCG	Card or History	89		12-23 m		51	1992	
BCG	C or H <12 month	86		12-23 m		51	1992	
DTP1	Card or History	88		12-23 m		51	1992	
DTP1	C or H <12 month			12-23 m		51	1992	
DTP3	Card or History	74		12-23 m		51	1992	
DTP3	C or H <12 month	60		12-23 m		51	1992	
Pol3	Card or History	74		12-23 m		51	1992	
Pol3	C or H <12 month			12-23 m		51	1992	
MCV	Card or History	68		12-23 m		51	1992	
MCV	C or H <12 month	53		12-23 m		51	1992	

1990 Joint Review of the EPI in Bangladesh 1991

BCG	Card or History	86		12-23 m			1991	Children 12-17 months, weighted national average
BCG	C or H <12 month	86		12-23 m			1991	Children 12-17 months, weighted national average
DTP1	Card or History	86		12-23 m			1991	Children 12-17 months, weighted national average
DTP1	C or H <12 month	86		12-23 m			1991	Children 12-17 months, weighted national average
DTP3	Card or History	69		12-23 m			1991	Children 12-17 months, weighted national average
DTP3	C or H <12 month	62		12-23 m			1991	Children 12-17 months, weighted national average
Pol3	Card or History			12-23 m			1991	Children 12-17 months, weighted national average
Pol3	C or H <12 month			12-23 m			1991	Children 12-17 months, weighted national average
MCV	Card or History	65		12-23 m			1991	Children 12-17 months, weighted national average
MCV	C or H <12 month	54		12-23 m			1991	Children 12-17 months, weighted national average

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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.

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Year	PAB coverage estimate (%)
1980	2
1981	1
1982	2
1983	2
1984	2
1985	3
1986	5
1987	8
1988	14
1989	27
1990	70
1991	76
1992	71
1993	70
1994	81
1995	85
1996	87
1997	90
1998	86
1999	87
2000	89
2001	89
2002	89
2003	89
2004	89
2005	89
2006	92
2007	91
2008	91