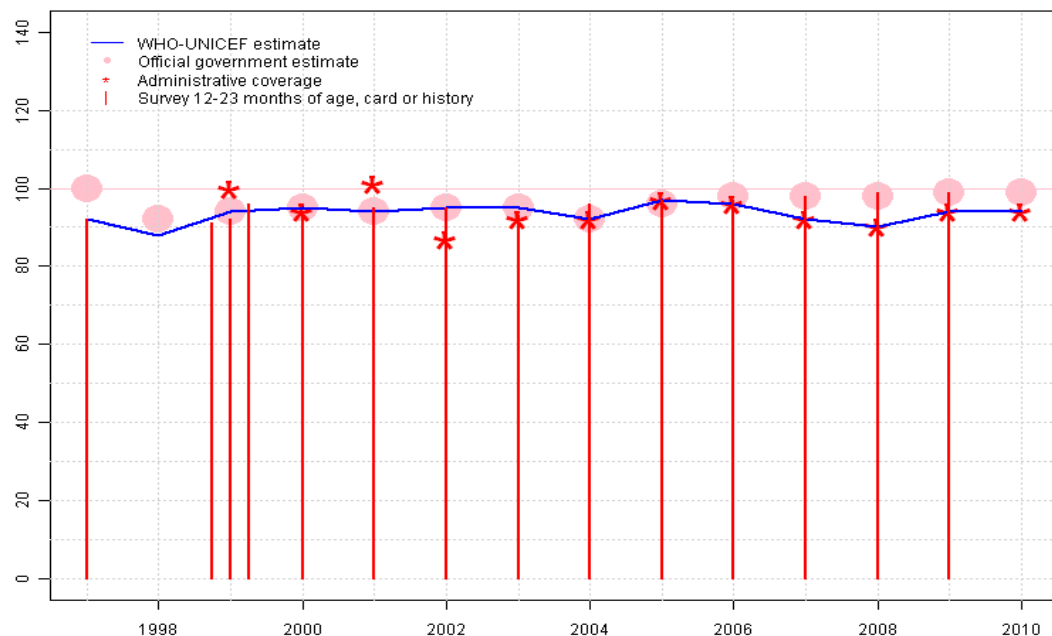


# Bangladesh - BCG

BGD - BCG



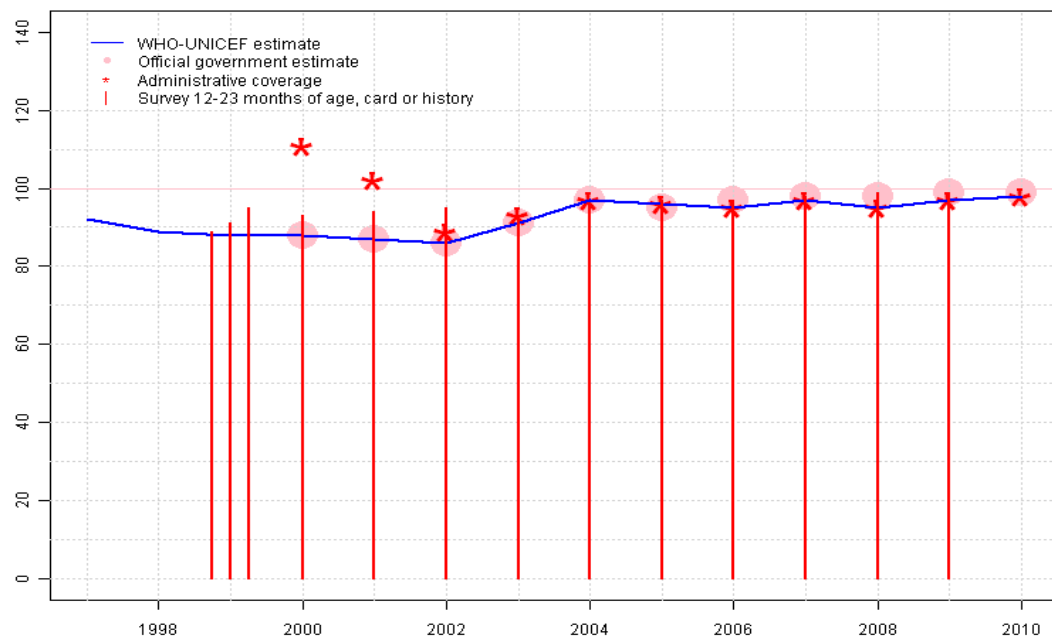
	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Estimate	92	88	94	95	94	95	95	92	97	96	92	90	94	94
Official	100	92	94	95	94	95	95	92	96	98	98	98	99	99
Administrative	NA	NA	100	94	101	87	92	92	97	96	92	90	94	94
Survey	92	NA	*	94	95	95	93	96	97	97	98	99	99	NA

## Description:

- 1997: Legacy estimate. Survey results not accepted. Sample size 0 less than 300.
- 1998: Reported data calibrated to 1997 and 1999 levels. Current estimate of 88 percent changed from previous revision value of 93 percent.
- 1999: Estimate based on reported data. 91 percent survey results supports reported data of 94 percent. Survey results not accepted. Sample size 0 less than 300.
- 2000: Estimate based on reported data. Survey results not accepted. Sample size 0 less than 300.
- 2001: Estimate based on reported data. 95 percent survey results supports reported data of 94 percent.
- 2002: Estimate based on reported data. 95 percent survey results supports reported data of 95 percent.
- 2003: Estimate based on reported data. 93 percent survey results supports reported data of 95 percent.
- 2004: Estimate based on reported data. 96 percent survey results supports reported data of 92 percent.
- 2005: Estimate based on reported data. 97 percent survey results supports reported data of 97 percent. Nationally reported data includes only valid doses administered. Current estimate of 97 percent changed from previous revision value of 96 percent.
- 2006: Estimate based on reported data. 97 percent survey results supports reported data of 96 percent. Nationally reported data includes only valid doses administered. Current estimate of 96 percent changed from previous revision value of 98 percent.
- 2007: Estimate based on reported data. 98 percent survey results supports reported data of 92 percent. Nationally reported data includes only valid doses administered. Current estimate of 92 percent changed from previous revision value of 98 percent.
- 2008: Estimate based on reported data. 99 percent survey results supports reported data of 90 percent. Nationally reported data includes only valid doses administered. Current estimate of 90 percent changed from previous revision value of 98 percent.
- 2009: Estimate based on reported data. 99 percent survey results supports reported data of 94 percent. Nationally reported data includes only valid doses administered. Current estimate of 94 percent changed from previous revision value of 99 percent.
- 2010: Estimate based on reported data. Nationally reported data includes only valid doses administered.

# Bangladesh - DTP1

BGD - DTP1



	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Estimate	92	89	88	88	87	86	91	97	96	95	97	95	97	98
Official	NA	NA	NA	88	87	86	91	97	95	97	98	98	99	99
Administrative	NA	NA	NA	111	102	89	93	97	96	95	97	95	97	98
Survey	NA	NA	*	93	94	95	93	96	97	97	98	99	99	NA

## Description:

1997: Legacy estimate.

1998: No DTP1 data. Estimate based on DTP3 coverage of 74. Current estimate of 89 percent changed from previous revision value of 90 percent.

1999: No accepted reported data. Reported data of 88 percent estimated by extrapolating from 2000 supports trend in reported data. 89 percent survey results Survey results not accepted. Sample size 0 less than 300. Survey results not accepted. Sample size 0 less than 300.

2000: Estimate based on reported data. Survey results not accepted. Sample size 0 less than 300.

2001: Estimate based on reported data. 94 percent survey results supports reported data of 87 percent.

2002: Estimate based on reported data. 95 percent survey results supports reported data of 86 percent.

2003: Estimate based on reported data. 93 percent survey results supports reported data of 91 percent.

2004: Estimate based on reported data. 96 percent survey results supports reported data of 97 percent. Current estimate of 97 percent changed from previous revision value of 98 percent.

2005: Estimate based on reported data. 97 percent survey results supports reported data of 96 percent. Nationally reported data includes only valid doses administered. Current estimate of 96 percent changed from previous revision value of 95 percent.

2006: Estimate based on reported data. 97 percent survey results supports reported data of 95 percent. Nationally reported data includes only valid doses administered. Current estimate of 95 percent changed from previous revision value of 97 percent.

2007: Estimate based on reported data. 98 percent survey results supports reported data of 97 percent. Nationally reported data includes only valid doses administered. Current estimate of 97 percent changed from previous revision value of 98 percent.

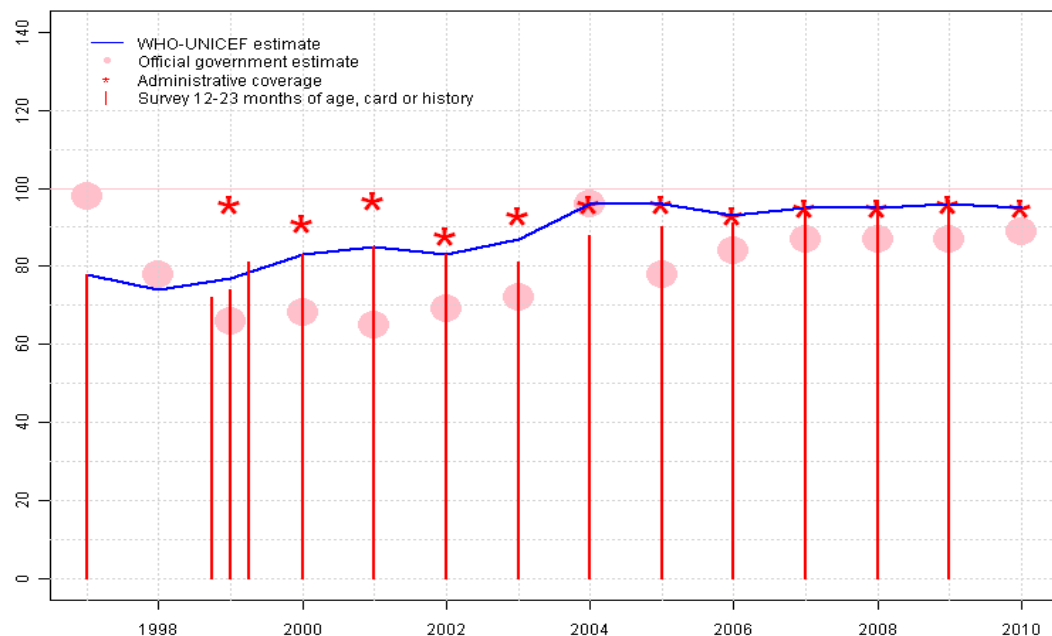
2008: Estimate based on reported data. 99 percent survey results supports reported data of 95 percent. Nationally reported data includes only valid doses administered. Current estimate of 95 percent changed from previous revision value of 98 percent.

2009: Estimate based on reported data. 99 percent survey results supports reported data of 97 percent. Nationally reported data includes only valid doses administered. Current estimate of 97 percent changed from previous revision value of 99 percent.

2010: Estimate based on reported data. Nationally reported data includes only valid doses administered.

# Bangladesh - DTP3

BGD - DTP3



	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Estimate	78	74	77	83	85	83	87	96	96	93	95	95	96	95
Official	98	78	66	68	65	69	72	96	78	84	87	87	87	89
Administrative	NA	NA	96	91	97	88	93	96	96	93	95	95	96	95
Survey	78	NA	*	83	85	83	81	88	90	91	95	97	97	NA

## Description:

- 1997: Legacy estimate. Survey results not accepted. Sample size 0 less than 300.
- 1998: Reported data calibrated to 1997 and 1999 levels.
- 1999: Estimate based on survey results. 77 percent survey results does not support reported data of 66 percent. Survey results not accepted. Sample size 0 less than 300. Survey results not accepted. Sample size 0 less than 300.
- 2000: Reported data calibrated to 1999 and 2001 levels. Survey results not accepted. Sample size 0 less than 300. Current estimate of 83 percent changed from previous revision value of 81 percent.
- 2001: Estimate based on survey results. 85 percent survey results does not support reported data of 65 percent.
- 2002: Estimate based on survey results. 83 percent survey results does not support reported data of 69 percent. Current estimate of 83 percent changed from previous revision value of 86 percent.
- 2003: Estimate based on survey results. 87 percent survey results does not support reported data of 72 percent. Survey results of 81 percent modified for recall bias to 87 percent based on 1st dose card or history coverage of 93 percent, 1st dose card only coverage of 49 percent and 3d dose card only coverage of 46 percent.
- 2004: Estimate based on reported data. 99 percent survey results supports reported data of 96 percent. Survey results of 88 percent modified for recall bias to 99 percent based on 1st dose card or history coverage of 96 percent, 1st dose card only coverage of 88 percent and 3d dose card only coverage of 99 percent. Current estimate of 96 percent changed from previous revision value of 99 percent.
- 2005: Estimate based on reported data. 93 percent survey results supports reported data of 96 percent. Survey results of 90 percent modified for recall bias to 93 percent based on 1st dose card or history coverage of 97 percent, 1st dose card only coverage of 65 percent and 3d dose card only coverage of 62 percent. Nationally reported data includes only valid doses administered. Current estimate of 96 percent changed from previous revision value of 93 percent.
- 2006: Estimate based on reported data. 94 percent survey results supports reported data of 93 percent. Survey results of 91 percent modified for recall bias to 94 percent based on 1st dose card or history coverage of 97 percent, 1st dose card only coverage of 58 percent and 3d dose card only coverage of 56 percent. Nationally reported data includes only valid doses administered. Current estimate of 93 percent changed from previous revision value of 94 percent.
- 2007: Estimate based on reported data. 94 percent survey results supports reported data of 95 percent. Survey results of 95 percent modified for recall bias to 94 percent based on 1st dose card or history coverage of 98 percent,

# Bangladesh - DTP3

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1st dose card only coverage of 66 percent and 3d dose card only coverage of 63 percent. Nationally reported data includes only valid doses administered. Current estimate of 95 percent changed from previous revision value of 94 percent.

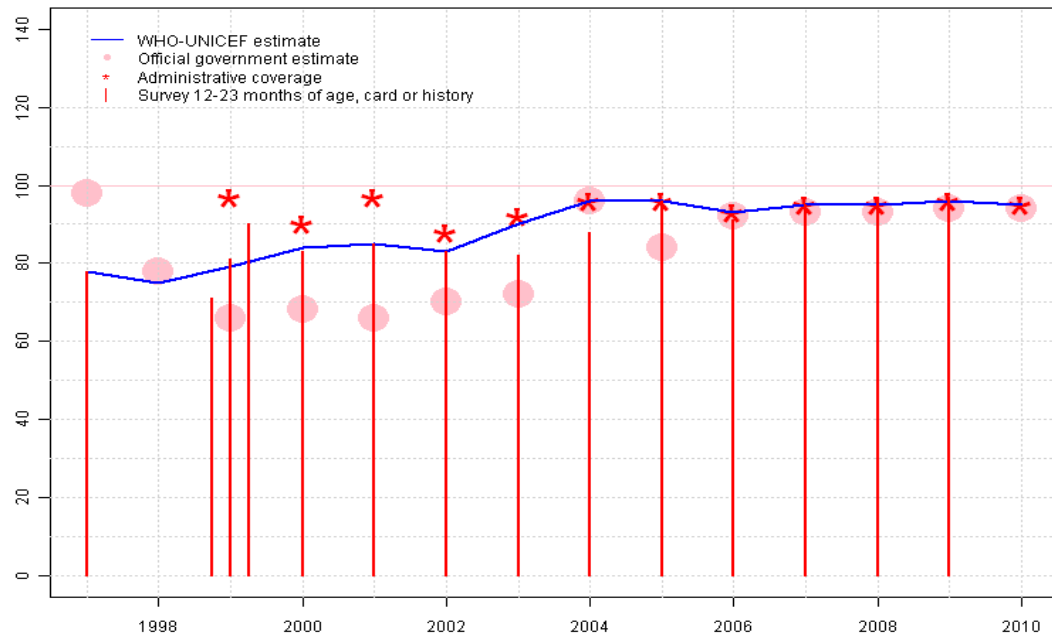
2008: Estimate based on reported data. 96 percent survey results supports reported data of 95 percent. Survey results of 97 percent modified for recall bias to 96 percent based on 1st dose card or history coverage of 99 percent, 1st dose card only coverage of 70 percent and 3d dose card only coverage of 68 percent. Nationally reported data includes only valid doses administered. Current estimate of 95 percent changed from previous revision value of 94 percent.

2009: Estimate based on reported data. 97 percent survey results supports reported data of 96 percent. Nationally reported data includes only valid doses administered. Current estimate of 96 percent changed from previous revision value of 94 percent.

2010: Estimate based on reported data. Nationally reported data includes only valid doses administered.

# Bangladesh - Pol3

BGD - Pol3



	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Estimate	78	75	79	84	85	83	90	96	96	93	95	95	96	95
Official	98	78	66	68	66	70	72	96	84	92	93	93	94	94
Administrative	NA	NA	97	90	97	88	92	96	96	93	95	95	96	95
Survey	78	NA	*	83	85	83	82	88	96	91	95	97	97	NA

## Description:

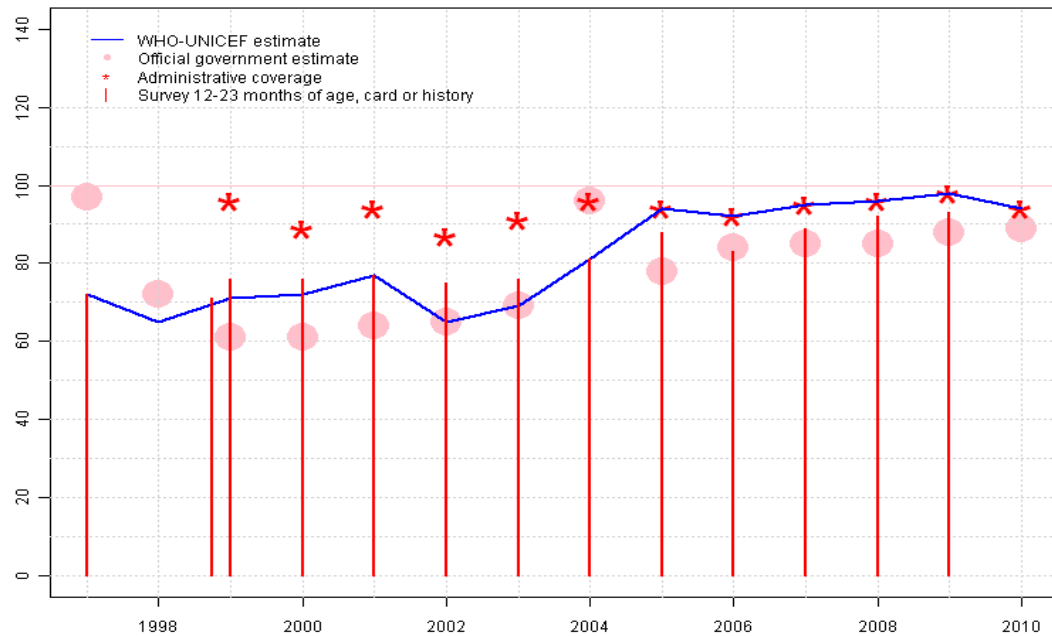
- 1997: Legacy estimate. Survey results not accepted. Sample size 0 less than 300.
- 1998: Reported data calibrated to 1997 and 1999 levels. Current estimate of 75 percent changed from previous revision value of 79 percent.
- 1999: Estimate based on survey results. 79 percent survey results does not support reported data of 66 percent. Survey results not accepted. Sample size 0 less than 300.
- 2000: Reported data calibrated to 1999 and 2001 levels. Survey results not accepted. Sample size 0 less than 300. Current estimate of 84 percent changed from previous revision value of 82 percent.
- 2001: Estimate based on survey results. 85 percent survey results does not support reported data of 66 percent.
- 2002: Estimate based on survey results. 83 percent survey results does not support reported data of 70 percent. Current estimate of 83 percent changed from previous revision value of 89 percent.
- 2003: Estimate based on survey results. 90 percent survey results does not support reported data of 72 percent. Survey results of 82 percent modified for recall bias to 90 percent based on 1st dose card or history coverage of 96 percent, 1st dose card only coverage of 49 percent and 3d dose card only coverage of 46 percent.
- 2004: Estimate based on reported data. 88 percent survey results supports reported data of 96 percent. Current estimate of 96 percent changed from previous revision value of 79 percent.
- 2005: Estimate based on reported data. 94 percent survey results supports reported data of 96 percent. Survey results of 96 percent modified for recall bias to 94 percent based on 1st dose card or history coverage of 99 percent, 1st dose card only coverage of 65 percent and 3d dose card only coverage of 62 percent. Nationally reported data includes only valid doses administered. Current estimate of 96 percent changed from previous revision value of 85 percent.
- 2006: Estimate based on reported data. 95 percent survey results supports reported data of 93 percent. Survey results of 91 percent modified for recall bias to 95 percent based on 1st dose card or history coverage of 98 percent, 1st dose card only coverage of 58 percent and 3d dose card only coverage of 56 percent. National reported estimate of Pol3 coverage is higher than reported DTP3 coverage as invalid Pol3 doses are corrected by a fourth dose of polio vaccine provided with MCV. Nationally reported data includes only valid doses administered. Current estimate of 93 percent changed from previous revision value of 92 percent.
- 2007: Estimate based on reported data. Survey not accepted. Estimates based on reported data. National reported estimate of Pol3 coverage is higher than reported DTP3 coverage as invalid Pol3 doses are corrected by a fourth

dose of polio vaccine provided with MCV. Nationally reported data includes only valid doses administered. Current estimate of 95 percent changed from previous revision value of 93 percent.

- 2008: Estimate based on reported data. 96 percent survey results supports reported data of 95 percent. Survey results of 97 percent modified for recall bias to 96 percent based on 1st dose card or history coverage of 99 percent, 1st dose card only coverage of 70 percent and 3d dose card only coverage of 68 percent. National reported estimate of Pol3 coverage is higher than reported DTP3 coverage as invalid Pol3 doses are corrected by a fourth dose of polio vaccine provided with MCV. Nationally reported data includes only valid doses administered. Current estimate of 95 percent changed from previous revision value of 93 percent.
- 2009: Estimate based on reported data. 97 percent survey results supports reported data of 96 percent. National reported estimate of Pol3 coverage is higher than reported DTP3 coverage as invalid Pol3 doses are corrected by a fourth dose of polio vaccine provided with MCV. Nationally reported data includes only valid doses administered. Current estimate of 96 percent changed from previous revision value of 94 percent.
- 2010: Estimate based on reported data. National reported estimate of Pol3 coverage is higher than reported DTP3 coverage as invalid Pol3 doses are corrected by a fourth dose of polio vaccine provided with MCV. Nationally reported data includes only valid doses administered.

# Bangladesh - MCV

BGD - MCV



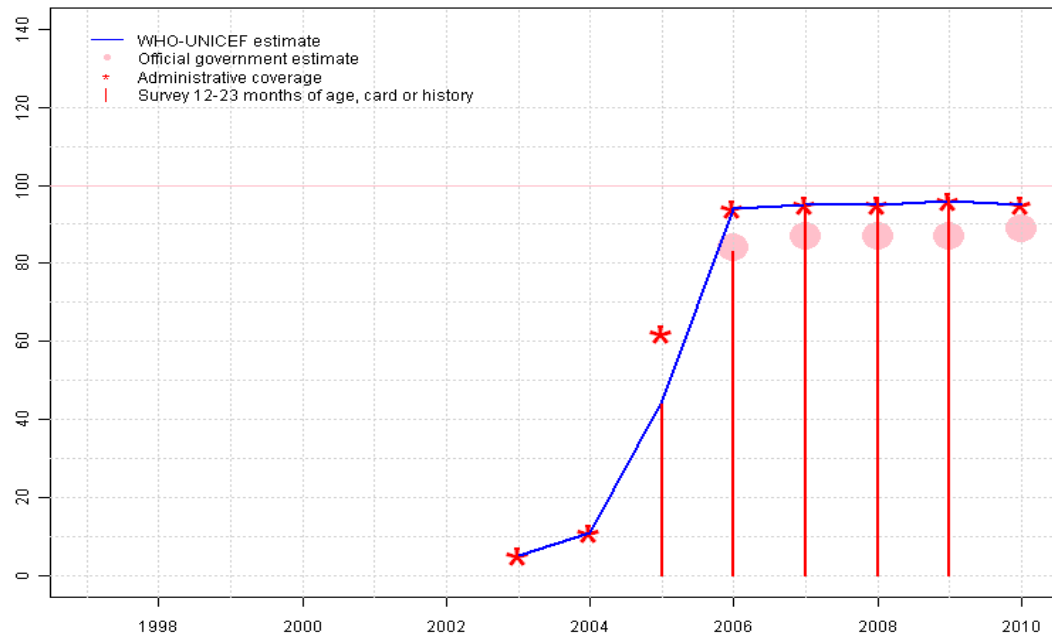
	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Estimate	72	65	71	72	77	65	69	81	94	92	95	96	98	94
Official	97	72	61	61	64	65	69	96	78	84	85	85	88	89
Administrative	NA	NA	96	89	94	87	91	96	94	92	95	96	98	94
Survey	72	NA	*	76	77	75	76	81	88	83	89	92	93	NA

## Description:

- 1997: Legacy estimate. Survey results not accepted. Sample size 0 less than 300.
- 1998: Reported data calibrated to 1997 and 1999 levels.
- 1999: Estimate is based on survey results. Survey results not accepted. Sample size 0 less than 300. Survey results not accepted. Sample size 0 less than 300.
- 2000: Reported data calibrated to 1999 and 2001 levels. Survey results not accepted. Sample size 0 less than 300.
- 2001: Estimate based on survey results. 77 percent survey results does not support reported data of 64 percent.
- 2002: Estimate based on reported data. 75 percent survey results supports reported data of 65 percent. Current estimate of 65 percent changed from previous revision value of 77 percent.
- 2003: Estimate based on reported data. 76 percent survey results supports reported data of 69 percent. Current estimate of 69 percent changed from previous revision value of 76 percent.
- 2004: Estimate based on survey results. 81 percent survey results does not support reported data of 96 percent. Current estimate of 81 percent changed from previous revision value of 74 percent.
- 2005: Estimate based on reported data. 88 percent survey results supports reported data of 94 percent. Nationally reported data includes only valid doses administered. Current estimate of 94 percent changed from previous revision value of 88 percent.
- 2006: Estimate based on reported data. 83 percent survey results supports reported data of 92 percent. Nationally reported data includes only valid doses administered. Current estimate of 92 percent changed from previous revision value of 78 percent.
- 2007: Estimate based on reported data. 89 percent survey results supports reported data of 95 percent. Nationally reported data includes only valid doses administered. Current estimate of 95 percent changed from previous revision value of 89 percent.
- 2008: Estimate based on reported data. 92 percent survey results supports reported data of 96 percent. Nationally reported data includes only valid doses administered. Current estimate of 96 percent changed from previous revision value of 89 percent.
- 2009: Estimate based on reported data. 93 percent survey results supports reported data of 98 percent. Nationally reported data includes only valid doses administered. Current estimate of 98 percent changed from previous revision value of 89 percent.
- 2010: Estimate based on reported data. Nationally reported data includes only valid doses administered.

# Bangladesh - HepB3

**BGD - HepB3**



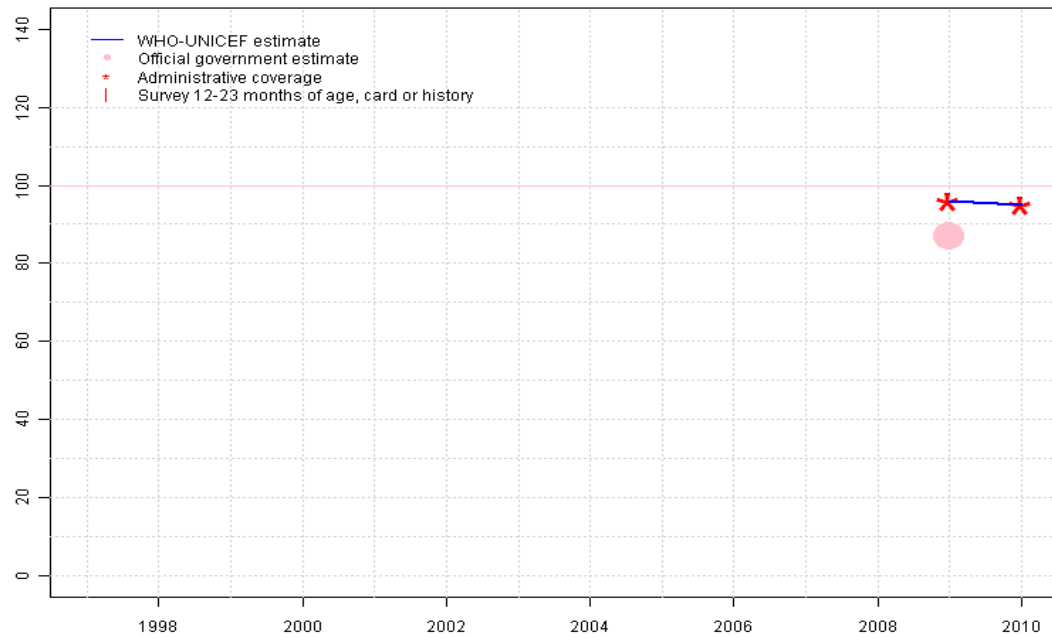
	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Estimate	NA	NA	NA	NA	NA	NA	5	11	45	94	95	95	96	95
Official	NA	NA	NA	NA	NA	NA	NA	NA	NA	84	87	87	87	89
Administrative	NA	NA	NA	NA	NA	NA	5	11	62	94	95	95	96	95
Survey	NA	NA	NA	NA	NA	NA	NA	NA	44	83	95	97	97	NA

## Description:

- 2003: Estimate is based on reported data. HepB partially introduced in 2003 nationally in 2005 reporting started in 2003.
- 2004: Estimate is based on reported data.
- 2005: Estimate based on survey results. 45 percent survey results does not support reported data of 62 percent. Survey results of 44 percent modified for recall bias to 45 percent based on 1st dose card or history coverage of 49 percent, 1st dose card only coverage of 46 percent and 3d dose card only coverage of 42 percent. Nationally reported data includes only valid doses administered. Current estimate of 45 percent changed from previous revision value of 44 percent.
- 2006: Estimate based on reported data. 86 percent survey results supports reported data of 94 percent. Survey results of 83 percent modified for recall bias to 86 percent based on 1st dose card or history coverage of 89 percent, 1st dose card only coverage of 56 percent and 3d dose card only coverage of 54 percent. Nationally reported data includes only valid doses administered. Current estimate of 94 percent changed from previous revision value of 83 percent.
- 2007: Estimate based on reported data. 95 percent survey results supports reported data of 95 percent. Survey results of 95 percent modified for recall bias to 95 percent based on 1st dose card or history coverage of 98 percent, 1st dose card only coverage of 65 percent and 3d dose card only coverage of 63 percent. Nationally reported data includes only valid doses administered.
- 2008: Estimate based on reported data. 96 percent survey results supports reported data of 95 percent. Survey results of 97 percent modified for recall bias to 96 percent based on 1st dose card or history coverage of 99 percent, 1st dose card only coverage of 70 percent and 3d dose card only coverage of 68 percent. Nationally reported data includes only valid doses administered.
- 2009: Estimate based on reported data. 97 percent survey results supports reported data of 96 percent. Nationally reported data includes only valid doses administered. Current estimate of 96 percent changed from previous revision value of 95 percent.
- 2010: Estimate based on reported data. Nationally reported data includes only valid doses administered.

# Bangladesh - Hib3

BGD - Hib3



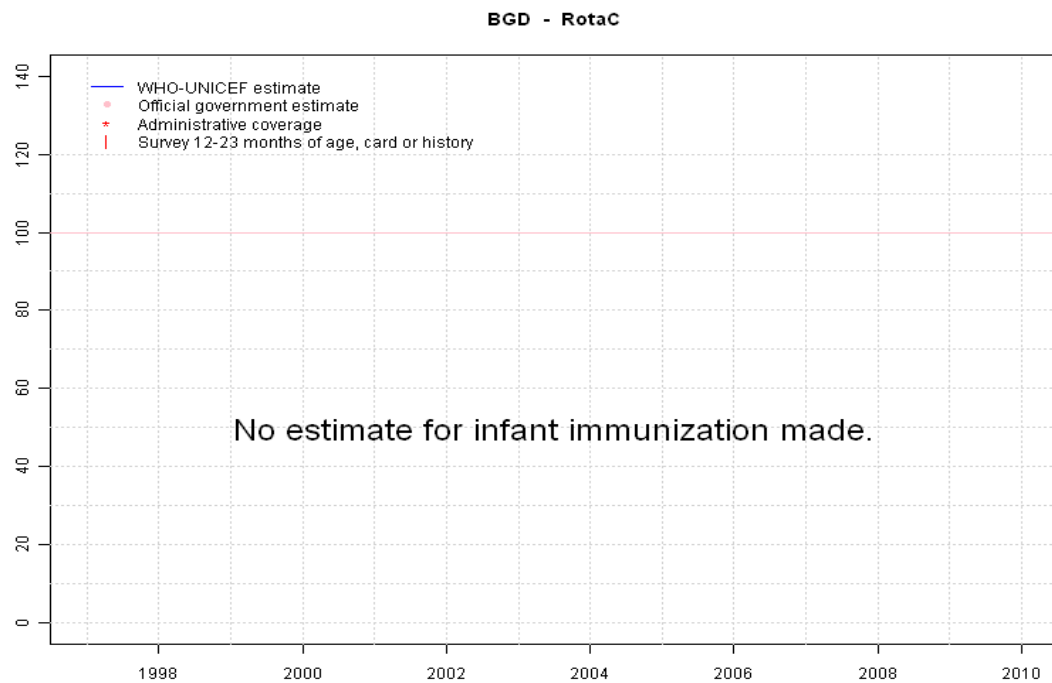
## Description:

2009: Estimate based on reported data. Nationally reported data includes only valid doses administered.

2010: Estimate based on reported data. Nationally reported data includes only valid doses administered.

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Estimate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	96	95
Official	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	87	NA
Administrative	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	96	95
Survey	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

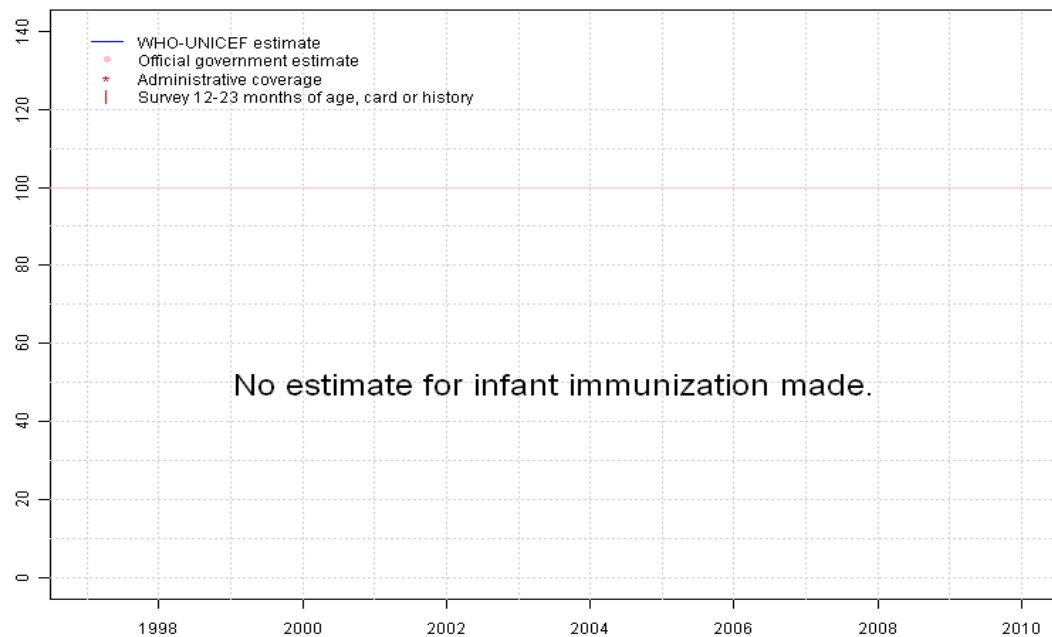
# Bangladesh - RotaC



	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Estimate	NA	NA	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	NA	NA
Administrative	NA	NA	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	NA	NA

# Bangladesh - PcV3

BGD - PcV3



	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Estimate	NA	NA	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	NA	NA
Administrative	NA	NA	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	NA	NA

# Bangladesh - survey details

## 2009 Bangladesh EPI Coverage Evaluation Survey 2010

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	Card or History	99	12-23 m	14700	72
DTP1	Card or History	99	12-23 m	14700	72
DTP3	Card or History	97	12-23 m	14700	72
HepB1	Card or History	99	12-23 m	14700	72
HepB3	Card or History	97	12-23 m	14700	72
MCV	Card or History	93	12-23 m	14700	72
Pol1	Card or History	99	12-23 m	14700	72
Pol3	Card or History	97	12-23 m	14700	72

## 2008 Bangladesh EPI Coverage Evaluation Survey 2009

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	Card	70	12-23 m	15120	73
BCG	Card or History	99	12-23 m	15120	73
BCG	History	29	12-23 m	15120	73
DTP1	History	29	12-23 m	15120	73
DTP1	Card or History	99	12-23 m	15120	73
DTP1	Card	70	12-23 m	15120	73
DTP3	Card or History	97	12-23 m	15120	73
DTP3	History	29	12-23 m	15120	73
DTP3	Card	68	12-23 m	15120	73
HepB1	History	29	12-23 m	15120	73
HepB1	Card	70	12-23 m	15120	73
HepB1	Card or History	99	12-23 m	15120	73
HepB3	Card	68	12-23 m	15120	73
HepB3	History	29	12-23 m	15120	73
HepB3	Card or History	97	12-23 m	15120	73
MCV	Card or History	92	12-23 m	15120	73
MCV	Card	62	12-23 m	15120	73
MCV	History	30	12-23 m	15120	73
Pol1	Card	70	12-23 m	15120	73
Pol1	Card or History	99	12-23 m	15120	73
Pol1	History	29	12-23 m	15120	73
Pol3	Card	68	12-23 m	15120	73
Pol3	Card or History	97	12-23 m	15120	73

Pol3 History 29 12-23 m 15120 73

## 2007 Bangladesh EPI Coverage Evaluation Survey 2007

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	History	33	12-23 m	5670	68
BCG	Card	65	12-23 m	5670	68
BCG	Card or History	98	12-23 m	5670	68
DTP1	Card	66	12-23 m	5670	68
DTP1	Card or History	98	12-23 m	5670	68
DTP1	History	33	12-23 m	5670	68
DTP3	History	32	12-23 m	5670	68
DTP3	Card or History	95	12-23 m	5670	68
DTP3	Card	63	12-23 m	5670	68
HepB1	Card	65	12-23 m	5670	68
HepB1	Card or History	98	12-23 m	5670	68
HepB1	History	33	12-23 m	5670	68
HepB3	History	32	12-23 m	5670	68
HepB3	Card	63	12-23 m	5670	68
HepB3	Card or History	95	12-23 m	5670	68
MCV	Card	57	12-23 m	5670	68
MCV	Card or History	89	12-23 m	5670	68
MCV	History	32	12-23 m	5670	68
Pol1	History	33	12-23 m	5670	68
Pol1	Card	65	12-23 m	5670	68
Pol1	Card or History	97	12-23 m	5670	68
Pol3	Card	56	12-23 m	5670	68
Pol3	Card or History	95	12-23 m	5670	68
Pol3	History	33	12-23 m	5670	68

## 2006 Bangladesh Demographic and Health Survey 2007

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	Card or History	97	12-23 m	1146	58
BCG	History	39	12-23 m	1146	58
BCG	C or H <12 months	97	12-23 m	1146	58
BCG	Card	58	12-23 m	1146	58

# Bangladesh - survey details

DTP1	C or H <12 months	97	12-23 m	1146	58
DTP1	Card	58	12-23 m	1146	58
DTP1	Card or History	97	12-23 m	1146	58
DTP1	History	39	12-23 m	1146	58
DTP3	Card or History	91	12-23 m	1146	58
DTP3	History	35	12-23 m	1146	58
DTP3	Card	56	12-23 m	1146	58
DTP3	C or H <12 months	90	12-23 m	1146	58
HepB1	History	33	12-23 m	1146	58
HepB1	C or H <12 months	89	12-23 m	1146	58
HepB1	Card	56	12-23 m	1146	58
HepB1	Card or History	89	12-23 m	1146	58
HepB3	Card or History	83	12-23 m	1146	58
HepB3	Card	54	12-23 m	1146	58
HepB3	C or H <12 months	81	12-23 m	1146	58
HepB3	History	29	12-23 m	1146	58
MCV	C or H <12 months	77	12-23 m	1146	58
MCV	Card	52	12-23 m	1146	58
MCV	Card or History	83	12-23 m	1146	58
MCV	History	31	12-23 m	1146	58
Pol1	History	40	12-23 m	1146	58
Pol1	Card or History	98	12-23 m	1146	58
Pol1	Card	58	12-23 m	1146	58
Pol1	C or H <12 months	98	12-23 m	1146	58
Pol3	C or H <12 months	90	12-23 m	1146	58
Pol3	History	35	12-23 m	1146	58
Pol3	Card	56	12-23 m	1146	58
Pol3	Card or History	91	12-23 m	1146	58

## 2005 Bangladesh Multiple Indicator Cluster Survey 2006

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	Card	65	12-23 m	6032	66
BCG	Card or History	97	12-23 m	6032	66
BCG	History	32	12-23 m	6032	66
BCG	C or H <12 months	97	12-23 m	6032	66
DTP1	Card or History	97	12-23 m	6032	66
DTP1	C or H <12 months	96	12-23 m	6032	66
DTP1	Card	65	12-23 m	6032	66

DTP1	History	31	12-23 m	6032	66
DTP3	Card	62	12-23 m	6032	66
DTP3	History	28	12-23 m	6032	66
DTP3	Card or History	90	12-23 m	6032	66
DTP3	C or H <12 months	90	12-23 m	6032	66
HepB1	C or H <12 months	48	12-23 m	6032	66
HepB1	Card	46	12-23 m	6032	66
HepB1	Card or History	49	12-23 m	6032	66
HepB1	History	3	12-23 m	6032	66
HepB3	C or H <12 months	43	12-23 m	6032	66
HepB3	History	2	12-23 m	6032	66
HepB3	Card or History	44	12-23 m	6032	66
HepB3	Card	42	12-23 m	6032	66
MCV	Card or History	88	12-23 m	6032	66
MCV	History	33	12-23 m	6032	66
MCV	Card	54	12-23 m	6032	66
MCV	C or H <12 months	85	12-23 m	6032	66
Pol1	C or H <12 months	99	12-23 m	6032	66
Pol1	Card	65	12-23 m	6032	66
Pol1	Card or History	99	12-23 m	6032	66
Pol1	History	34	12-23 m	6032	66
Pol3	History	34	12-23 m	6032	66
Pol3	Card or History	96	12-23 m	6032	66
Pol3	C or H <12 months	95	12-23 m	6032	66
Pol3	Card	62	12-23 m	6032	66

## 2004 Bangladesh EPI Coverage Evaluation Survey 2005

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	Card	100	12-23 m	15120	65
BCG	Card or History	96	12-23 m	15120	65
DTP1	Card or History	96	12-23 m	15120	65
DTP1	Card	88	12-23 m	15120	65
DTP3	Card	100	12-23 m	15120	65
DTP3	Card or History	88	12-23 m	15120	65
MCV	Card	88	12-23 m	15120	65
MCV	Card or History	81	12-23 m	15120	65
Pol3	Card	98	12-23 m	15120	65
Pol3	Card or History	88	12-23 m	15120	65

# Bangladesh - survey details

## 2003 Bangladesh Demographic and Health Survey 2004

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	History	44	12-23 m	1265	49
BCG	Card or history	93	12-23 m	1265	49
BCG	C or H <12 months	93	12-23 m	1265	49
BCG	Card	49	12-23 m	1265	49
DTP1	C or H <12 months	93	12-23 m	1265	49
DTP1	Card	49	12-23 m	1265	49
DTP1	Card or history	93	12-23 m	1265	49
DTP1	History	44	12-23 m	1265	49
DTP3	C or H <12 months	80	12-23 m	1265	49
DTP3	Card	46	12-23 m	1265	49
DTP3	Card or history	81	12-23 m	1265	49
DTP3	History	35	12-23 m	1265	49
MCV	C or H <12 months	70	12-23 m	1265	49
MCV	History	34	12-23 m	1265	49
MCV	Card	42	12-23 m	1265	49
MCV	Card or history	76	12-23 m	1265	49
Pol1	C or H <12 months	96	12-23 m	1265	49
Pol1	Card	49	12-23 m	1265	49
Pol1	Card or history	96	12-23 m	1265	49
Pol1	History	47	12-23 m	1265	49
Pol3	C or H <12 months	82	12-23 m	1265	49
Pol3	Card	46	12-23 m	1265	49
Pol3	Card or history	82	12-23 m	1265	49
Pol3	History	36	12-23 m	1265	49

## 2002 Bangladesh EPI Coverage Evaluation Survey 2003

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	Card or History	95	12-23 m	3150	63
DTP1	Card or History	95	12-23 m	3150	63
DTP3	Card or History	83	12-23 m	3150	63
MCV	Card or History	75	12-23 m	3150	63
Pol1	Card or History	94	12-23 m	3150	63

Pol3 Card or History 83 12-23 m 3150 63

## 2001 Bangladesh EPI Coverage Evaluation Survey 2002

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	Card or History	95	12-23 m	15750	55
DTP1	Card or History	94	12-23 m	15750	55
DTP3	Card or History	85	12-23 m	15750	55
MCV	Card or History	77	12-23 m	15750	55
Pol1	Card or History	94	12-23 m	15750	55
Pol3	Card or History	85	12-23 m	15750	55

## 2000 National Coverage Evaluation Survey Bangladesh 2001

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	Card or History	94	12-23 m	0	52
DTP1	Card or History	93	12-23 m	0	52
DTP3	Card or History	83	12-23 m	0	52
MCV	Card or History	76	12-23 m	0	52
Pol1	Card or History	92	12-23 m	0	52
Pol3	Card or History	83	12-23 m	0	52

## 1999 Bangladesh Demographic and Health Survey 1999-2000, 2001

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	Card	43	12-23 m	1316	44
BCG	C or H <12 months	90	12-23 m	1316	44
BCG	History	48	12-23 m	1316	44
BCG	Card or History	91	12-23 m	1316	44
DTP1	C or H <12 months	88	12-23 m	1316	44
DTP1	Card	44	12-23 m	1316	44
DTP1	Card or History	89	12-23 m	1316	44
DTP1	History	45	12-23 m	1316	44
DTP3	Card	38	12-23 m	1316	44
DTP3	Card or History	72	12-23 m	1316	44
DTP3	C or H <12 months	70	12-23 m	1316	44

# Bangladesh - survey details

DTP3	History	34	12-23 m	1316	44
MCV	C or H <12 months	62	12-23 m	1316	44
MCV	Card	34	12-23 m	1316	44
MCV	Card or History	71	12-23 m	1316	44
MCV	History	36	12-23 m	1316	44
Pol1	History	46	12-23 m	1316	44
Pol1	Card	43	12-23 m	1316	44
Pol1	Card or History	89	12-23 m	1316	44
Pol1	C or H <12 months	89	12-23 m	1316	44
Pol3	C or H <12 months	69	12-23 m	1316	44
Pol3	Card	38	12-23 m	1316	44
Pol3	Card or History	71	12-23 m	1316	44
Pol3	History	33	12-23 m	1316	44

## 1999 Bangladesh, Multiple Indicator Cluster Survey 2000

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	Card or History	92	12-23 m	0	0
DTP1	Card or History	91	12-23 m	0	0
DTP3	Card or History	74	12-23 m	0	0
MCV	Card or History	76	12-23 m	0	0
Pol1	Card or History	97	12-23 m	0	0
Pol3	Card or History	90	12-23 m	0	0

## 1999 National Coverage Evaluation Survey Bangladesh 2000

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	Card or History	96	12-23 m	0	52
DTP1	Card or History	95	12-23 m	0	52
DTP3	Card or History	81	12-23 m	0	52
MCV	Card or History	71	12-23 m	0	52
Pol1	Card or History	95	12-23 m	0	52
Pol3	Card or History	81	12-23 m	0	52

## 1997 National Coverage Evaluation Survey Bangladesh 1998

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	Card or History	92	12-23 m	0	54
BCG	Card <12 months	99	12-23 m	0	54
BCG	Card	100	12-23 m	0	54
BCG	C or H <12 months	91	12-23 m	0	54
DTP3	Card or History	78	12-23 m	0	54
DTP3	C or H <12 months	68	12-23 m	0	54
DTP3	Card	91	12-23 m	0	54
DTP3	Card <12 months	77	12-23 m	0	54
MCV	Card	84	12-23 m	0	54
MCV	Card <12 months	74	12-23 m	0	54
MCV	Card or History	72	12-23 m	0	54
MCV	C or H <12 months	62	12-23 m	0	54
Pol3	C or H <12 months	68	12-23 m	0	54
Pol3	Card	91	12-23 m	0	54
Pol3	Card <12 months	77	12-23 m	0	54
Pol3	Card or History	78	12-23 m	0	54

Further information and estimates for 1980-1996 are available at:

[http://www.childinfo.org/immunization\\_countryreports.html](http://www.childinfo.org/immunization_countryreports.html)

[http://www.who.int/immunization\\_monitoring/routine/immunization\\_coverage/en/index4.html](http://www.who.int/immunization_monitoring/routine/immunization_coverage/en/index4.html)

## Bangladesh

### 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 (%)
1997	90
1998	86
1999	87
2000	89
2001	89
2002	89
2003	89
2004	89
2005	89
2006	92
2007	91
2008	91
2009	93
2010	93

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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.