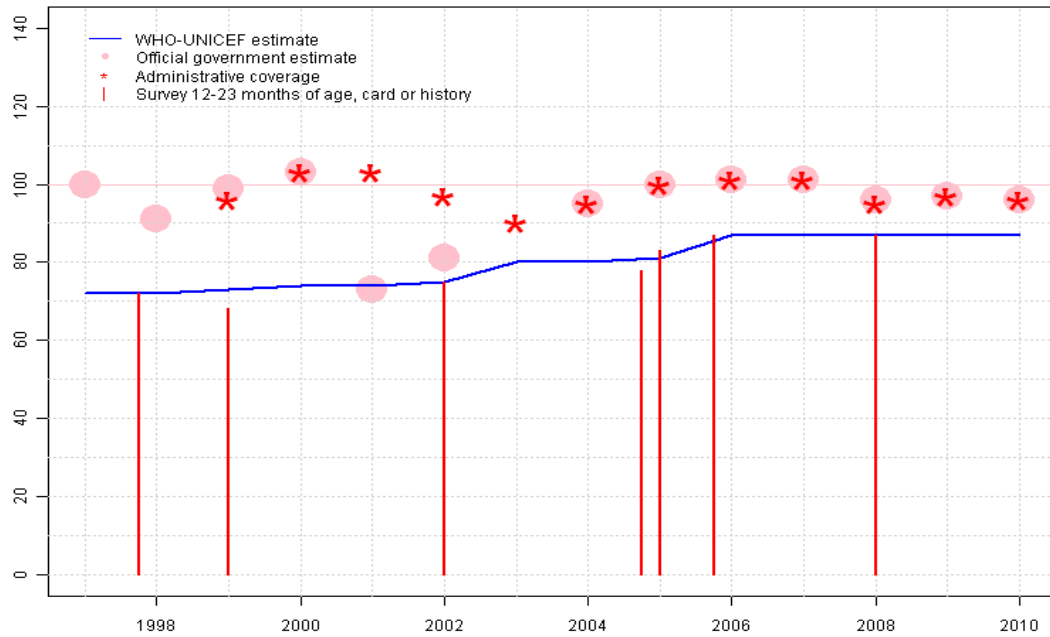


# India - BCG

IND - BCG



	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Estimate	72	72	73	74	74	75	80	80	81	87	87	87	87	87
Official	100	91	99	103	73	81	NA	95	100	101	101	96	97	96
Administrative	NA	NA	96	103	103	97	90	95	100	101	101	95	97	96
Survey	NA	*	68	NA	NA	75	NA	NA	*	*	NA	87	NA	NA

## Description:

1997: Legacy estimate.

1998: Estimate based on survey results. \*Summary survey results of 72 percent based on 2 surveys (see survey summary page) does not support reported data of 91 percent.

1999: Estimate based on interpolation between 1998 and 2002. Survey results not accepted. Sample size 0 less than 300. Unexplained temporal change in numerator and denominator levels.

2000: Estimate based on interpolation between 1998 and 2002. Reported data of 103 percent greater than 100 percent. Unexplained temporal change in numerator and denominator levels.

2001: Estimate based on interpolation between 1998 and 2002. Unexplained temporal change in numerator and denominator levels.

2002: Estimate is based on the survey data.

2003: Reported data calibrated to 2002 and 2005 levels.

2004: Reported data calibrated to 2002 and 2005 levels. Nationally reported data are for 9 months only. Current estimate of 80 percent changed from previous revision value of 81 percent.

2005: Estimate based on survey results. \*Summary survey results of 81 percent based on 2 surveys (see survey summary page) does not support reported data of 100 percent. Nationally reported data are for 9 months only.

2006: Estimate is based on the survey data. Reported data of 101 percent greater than 100 percent.

2007: Estimate based on interpolation between 2006 and 2008. Reported data of 101 percent greater than 100 percent.

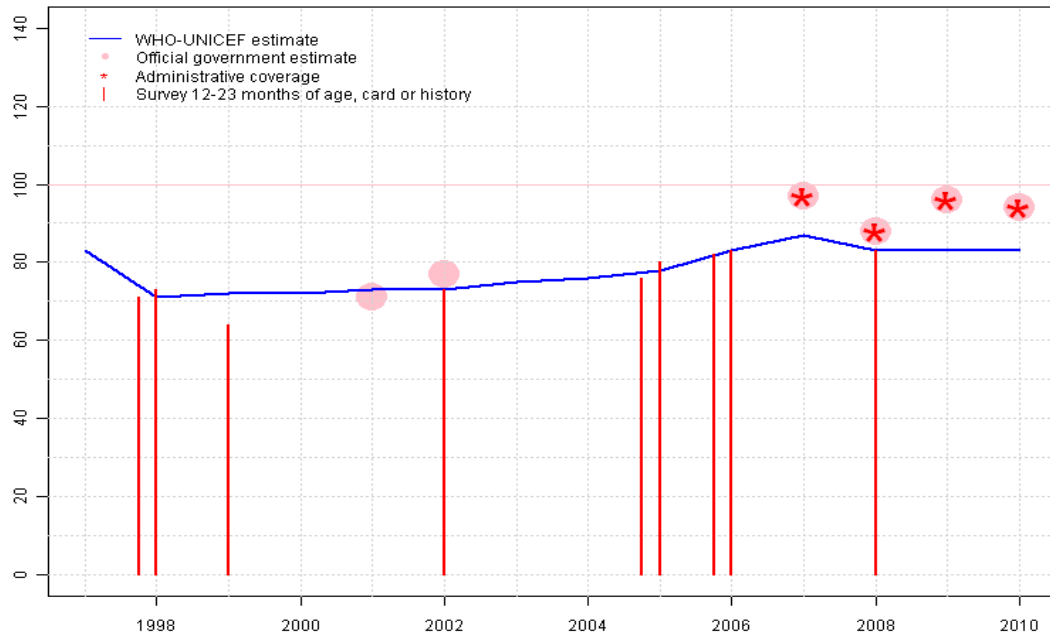
2008: Estimate based on survey.

2009: Estimate based on extrapolation from 2008 value of 87 percent. Estimate not based on reported data. Unexplained decline in target population

2010: Estimate based on extrapolation from 2008 value of 87 percent. Estimate not based on reported data. Unexplained decline in target population

# India - DTP1

IND - DTP1



	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Estimate	83	71	72	72	73	73	75	76	78	83	87	83	83	83
Official	NA	NA	NA	NA	71	77	NA	NA	NA	NA	97	88	96	94
Administrative	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	97	88	96	94
Survey	NA	*	64	NA	NA	73	NA	NA	*	*	NA	83	NA	NA

## Description:

1997: Legacy estimate.

1998: No accepted reported data. Reported data of 71 percent estimated by extrapolating from 2001 supports trend in reported data. \*Summary survey results of 72 percent based on 2 surveys (see survey summary page)

1999: Estimate based on interpolation between 1998 and 2002. Survey results not accepted. Sample size 0 less than 300. Current estimate of 72 percent changed from previous revision value of 70 percent.

2000: Estimate based on interpolation between 1998 and 2002. Current estimate of 72 percent changed from previous revision value of 69 percent.

2001: Estimate based on interpolation between 1998 and 2002. Current estimate of 73 percent changed from previous revision value of 68 percent.

2002: Estimate is based on the survey data.

2003: Estimate based on interpolation between 2002 and 2005.

2004: Estimate based on interpolation between 2002 and 2005. Nationally reported data are for 9 months only.

2005: No accepted reported data. Reported data of 89 percent estimated by interpolation between 2002 and 2007 does not support trend in reported data. \*Summary survey results of 78 percent based on 2 surveys (see survey summary page) Nationally reported data are for 9 months only.

2006: Estimate is based on the survey data.

2007: No DTP1 data. Estimate based on DTP3 coverage of 70. Unexplained temporal change in numerator and denominator levels. Current estimate of 87 percent changed from previous revision value of 83 percent.

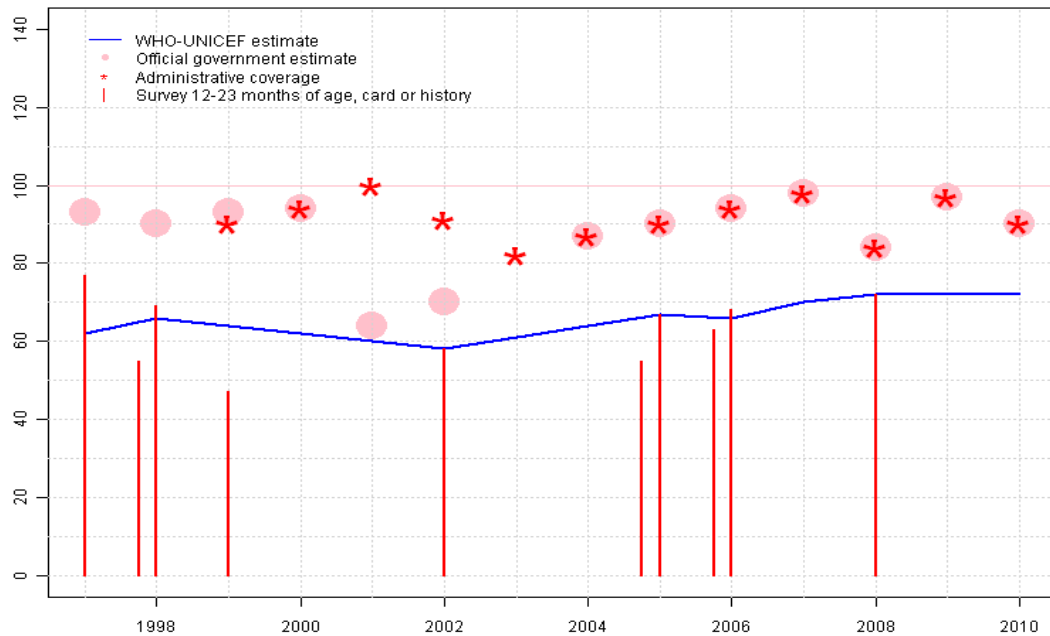
2008: Estimate based on survey. Stock out reported however insufficient data to reflect impact in the estimate.

2009: Estimate based on extrapolation from 2008 value of 83 percent. Estimate not based on reported data. Unexplained decline in target population

2010: Estimate based on extrapolation from 2008 value of 83 percent. Estimate not based on reported data. Unexplained decline in target population

# India - DTP3

IND - DTP3



	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Estimate	62	66	64	62	60	58	61	64	67	66	70	72	72	72
Official	93	90	93	94	64	70	NA	87	90	94	98	84	97	90
Administrative	NA	NA	90	94	100	91	82	87	90	94	98	84	97	90
Survey	77	*	47	NA	NA	58	NA	NA	*	*	NA	72	NA	NA

## Description:

- 1997: Legacy estimate. Survey results not accepted. Sample size 0 less than 300.
- 1998: Estimate based on survey results. \*Summary survey results of 66 percent based on 2 surveys (see survey summary page) does not support reported data of 90 percent. Survey results of 55 percent modified for recall bias to 62 percent based on 1st dose card or history coverage of 71 percent, 1st dose card only coverage of 99 percent and 3d dose card only coverage of 86 percent. Current estimate of 66 percent changed from previous revision value of 62 percent.
- 1999: Estimate based on interpolation between 1998 and 2002. Survey results not accepted. Sample size 0 less than 300. Unexplained temporal change in numerator and denominator levels. Current estimate of 64 percent changed from previous revision value of 61 percent.
- 2000: Estimate based on interpolation between 1998 and 2002. Unexplained temporal change in numerator and denominator levels. Current estimate of 62 percent changed from previous revision value of 60 percent.
- 2001: Estimate based on interpolation between 1998 and 2002. Unexplained temporal change in numerator and denominator levels. Current estimate of 60 percent changed from previous revision value of 59 percent.
- 2002: Estimate based on survey results. 58 percent survey results does not support reported data of 70 percent.
- 2003: Estimate based on interpolation between 2002 and 2005. Unexplained temporal change in numerator and denominator levels.
- 2004: Estimate based on interpolation between 2002 and 2005. Nationally reported data are for 9 months only. Unexplained temporal change in numerator and denominator levels.
- 2005: Estimate based on survey results. \*Summary survey results of 67 percent based on 2 surveys (see survey summary page) does not support reported data of 90 percent. Survey results of 55 percent modified for recall bias to 67 percent based on 1st dose card or history coverage of 76 percent, 1st dose card only coverage of 98 percent and 3d dose card only coverage of 87 percent. Nationally reported data are for 9 months only.
- 2006: Estimate based on survey results. \*Summary survey results of 66 percent based on 2 surveys (see survey summary page) does not support reported data of 94 percent.
- 2007: Reported data calibrated to 2006 and 2008 levels. Current estimate of 70 percent changed from previous revision value of 66 percent.
- 2008: No accepted reported data. Reported data of 98 percent estimated by extrapolating from 2007 does not support trend in reported data. 72 percent survey results Reported data not accepted due to a decline from 98 percent to 84 percent with a subsequent increase to 97 percent. Stock out reported however insufficient data to reflect impact in the estimate. Current estimate

# India - DTP3

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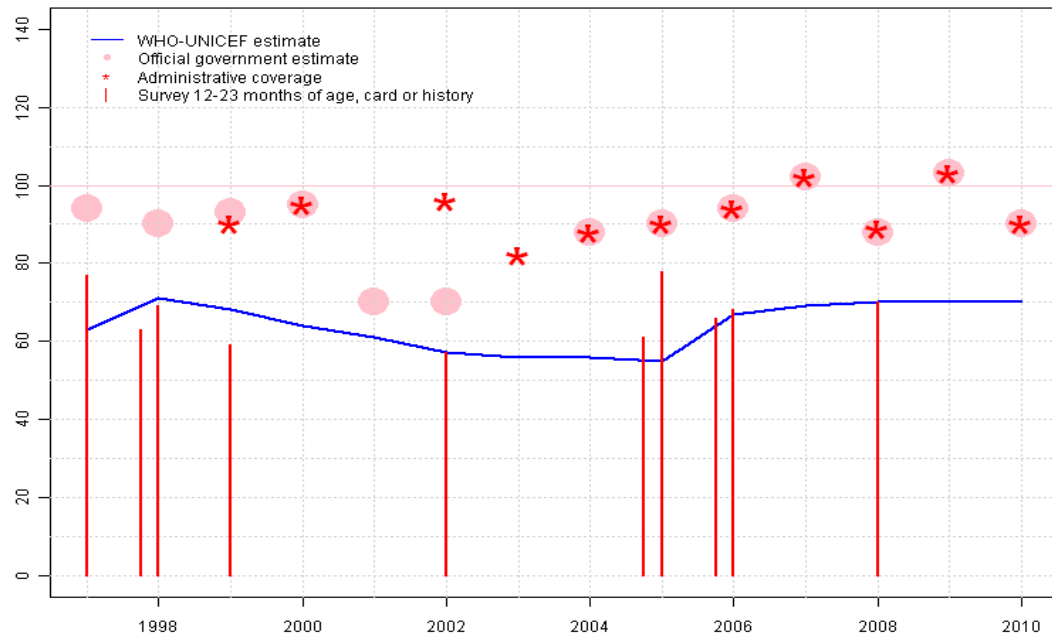
of 72 percent changed from previous revision value of 66 percent.

2009: Estimate based on extrapolation from 2008 value of 72 percent. Estimate not based on reported data. Unexplained decline in target populationCurrent estimate of 72 percent changed from previous revision value of 66 percent.

2010: Estimate based on extrapolation from 2008 value of 72 percent. Estimate not based on reported data. Unexplained decline in target population

# India - Pol3

IND - Pol3



	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Estimate	63	71	68	64	61	57	56	56	55	67	69	70	70	70
Official	94	90	93	95	70	70	NA	88	90	94	102	88	103	90
Administrative	NA	NA	90	95	NA	96	82	88	90	94	102	89	103	90
Survey	77	*	59	NA	NA	57	NA	NA	*	*	NA	70	NA	NA

## Description:

- 1997: Legacy estimate. Survey results not accepted. Sample size 0 less than 300.
- 1998: Estimate based on survey results. \*Summary survey results of 71 percent based on 2 surveys (see survey summary page) does not support reported data of 90 percent. Survey results of 63 percent modified for recall bias to 73 percent based on 1st dose card or history coverage of 84 percent, 1st dose card only coverage of 98 percent and 3d dose card only coverage of 85 percent. Current estimate of 71 percent changed from previous revision value of 66 percent.
- 1999: Estimate based on interpolation between 1998 and 2002. Survey results not accepted. Sample size 0 less than 300. Unexplained temporal change in numerator and denominator levels. Current estimate of 68 percent changed from previous revision value of 64 percent.
- 2000: Estimate based on interpolation between 1998 and 2002. Unexplained temporal change in numerator and denominator levels. Current estimate of 64 percent changed from previous revision value of 62 percent.
- 2001: Estimate based on interpolation between 1998 and 2002. Unexplained temporal change in numerator and denominator levels. Current estimate of 61 percent changed from previous revision value of 59 percent.
- 2002: Estimate based on survey results. 57 percent survey results does not support reported data of 70 percent.
- 2003: Estimate based on interpolation between 2002 and 2005. Unexplained temporal change in numerator and denominator levels. Current estimate of 56 percent changed from previous revision value of 58 percent.
- 2004: Estimate based on interpolation between 2002 and 2005. Nationally reported data are for 9 months only. Unexplained temporal change in numerator and denominator levels. Current estimate of 56 percent changed from previous revision value of 60 percent.
- 2005: Estimates are based on 2002/2004 National District and the 2005 CES adjusted with the difference between CES 2005 and NFHS DTP3 results. Survey not accepted. The 2005 NFHS data include campaign doses. Survey not accepted. The 2005 NFHS data include campaign doses. Nationally reported data are for 9 months only.
- 2006: Estimate based on survey results. \*Summary survey results of 67 percent based on 2 surveys (see survey summary page) does not support reported data of 94 percent.
- 2007: Estimate based on interpolation between 2006 and 2008. Reported data of 102 percent greater than 100 percent. Current estimate of 69 percent changed from previous revision value of 67 percent.
- 2008: No accepted reported data. Reported data of 94 percent estimated by extrapolating from 2006 does not support trend in reported data. 70 percent survey results Reported data not accepted due to a decline from 102 per-

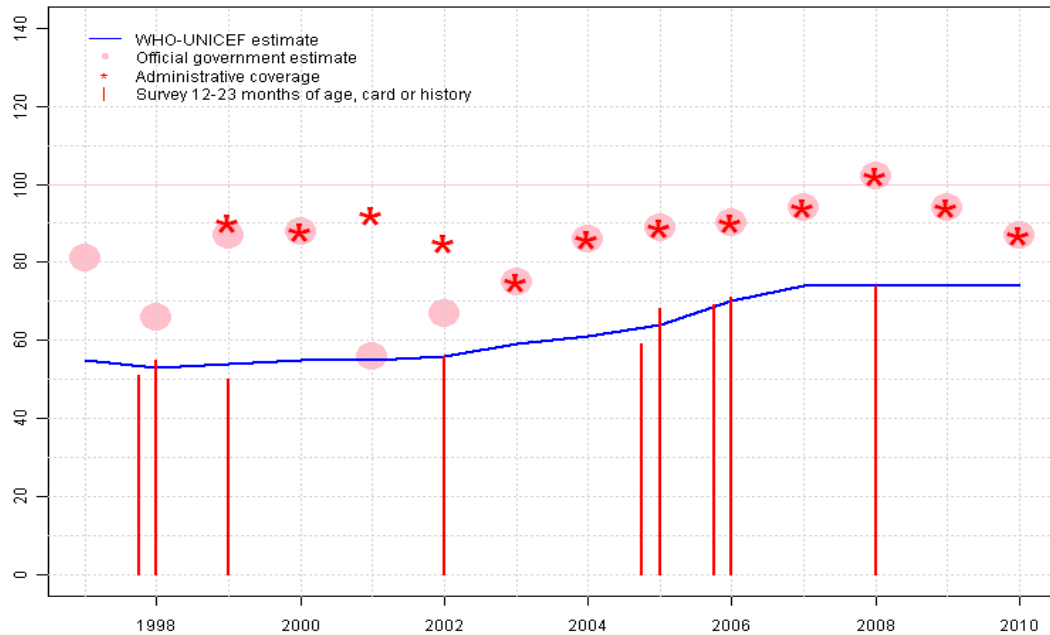
cent to 88 percent with a subsequent increase to 103 percent. Current estimate of 70 percent changed from previous revision value of 67 percent.

2009: Estimate based on extrapolation from 2008 value of 70 percent. Reported data of 103 percent greater than 100 percent. Reported data not accepted due to an increase from 88 percent to 103 percent with a subsequent decrease to 90 percent. Estimate not based on reported data. Unexplained decline in target population Current estimate of 70 percent changed from previous revision value of 67 percent.

2010: Estimate based on extrapolation from 2008 value of 70 percent. Reported data not accepted due to a change from 103 level to 90 percent. Estimate not based on reported data. Unexplained decline in target population

# India - MCV

IND - MCV



	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Estimate	55	53	54	55	55	56	59	61	64	70	74	74	74	74
Official	81	66	87	88	56	67	75	86	89	90	94	102	94	87
Administrative	NA	NA	90	88	92	85	75	86	89	90	94	102	94	87
Survey	NA	*	50	NA	NA	56	NA	NA	*	*	NA	74	NA	NA

## Description:

1997: Legacy estimate.

1998: No accepted reported data. Reported data of 84 percent estimated by interpolation between 1997 and 1999 does not support trend in reported data. \*Summary survey results of 53 percent based on 2 surveys (see survey summary page) Reported data not accepted due to a decline from 81 percent to 66 percent with a subsequent increase to 87 percent.

1999: Estimate based on interpolation between 1998 and 2002. Survey results not accepted. Sample size 0 less than 300. Unexplained temporal change in numerator and denominator levels. Current estimate of 54 percent changed from previous revision value of 48 percent.

2000: Estimate based on interpolation between 1998 and 2002. Unexplained temporal change in numerator and denominator levels. Current estimate of 55 percent changed from previous revision value of 50 percent.

2001: Estimate based on interpolation between 1998 and 2002. Reported data not accepted due to a decline from 88 percent to 56 percent with a subsequent increase to 67 percent. Unexplained temporal change in numerator and denominator levels. Current estimate of 55 percent changed from previous revision value of 53 percent.

2002: Estimate based on survey results. 56 percent survey results does not support reported data of 67 percent.

2003: Estimate based on interpolation between 2002 and 2005. Unexplained temporal change in numerator and denominator levels.

2004: Estimate based on interpolation between 2002 and 2005. Nationally reported data are for 9 months only. Unexplained temporal change in numerator and denominator levels.

2005: Estimate based on survey results. \*Summary survey results of 64 percent based on 2 surveys (see survey summary page) does not support reported data of 89 percent. Nationally reported data are for 9 months only.

2006: Estimate based on survey results. \*Summary survey results of 70 percent based on 2 surveys (see survey summary page) does not support reported data of 90 percent. Current estimate of 70 percent changed from previous revision value of 71 percent.

2007: Reported data calibrated to 2006 and 2008 levels. Current estimate of 74 percent changed from previous revision value of 71 percent.

2008: No accepted reported data. Reported data of 94 percent estimated by extrapolating from 2007 does not support trend in reported data. 74 percent survey results Reported data of 102 percent greater than 100 percent. Current estimate of 74 percent changed from previous revision value of 71 percent.

2009: Estimate based on extrapolation from 2008 value of 74 percent. Estimate not based on reported data. Unexplained decline in target population Current

# India - MCV

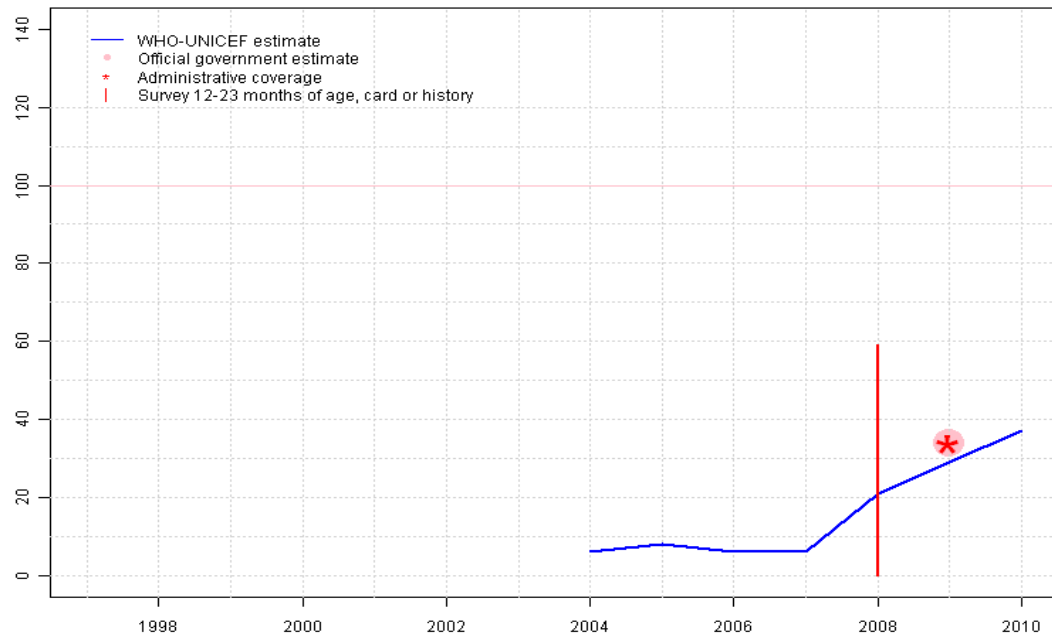
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estimate of 74 percent changed from previous revision value of 71 percent.

2010: Estimate based on extrapolation from 2008 value of 74 percent. Estimate not based on reported data. Unexplained decline in target population

# India - HepB3

IND - HepB3

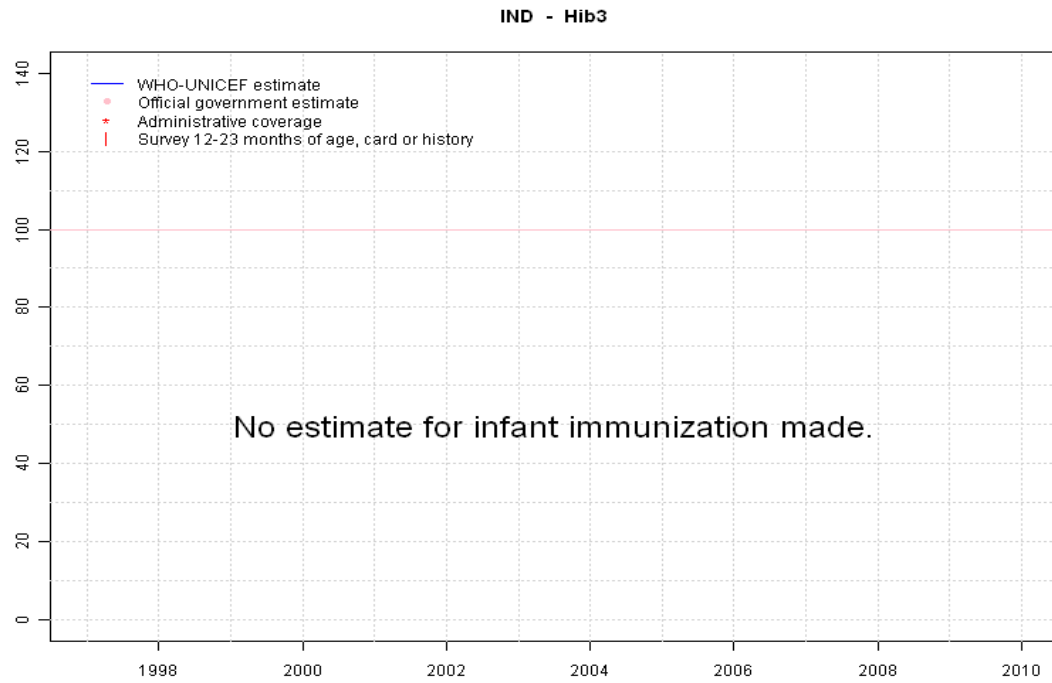


## Description:

- 2004: Sixty-eight percent coverage reached in 1.65 million children Nationally reported data are for 9 months only.HepB partially introduced in 2002 reporting started in 2004. Vaccine presentation is HepB .
- 2005: Seventy-eight percent coverage reached in 2.3 million children Nationally reported data are for 9 months only.
- 2006: Seventy-two percent coverage reached in 8 percent of the national target population
- 2007: Sixty-nine percent coverage reached in 7 percent of the national target population
- 2008: Fifty percent coverage reached in 43 percent of the national target population Survey not accepted. Population sample for HepB is not nationally representative. It represents 10 states and 3 union territories.
- 2009: Estimate based on interpolation between 2008 and 2010. Estimate not based on reported data. Unexplained decline in target populationCurrent estimate of 29 percent changed from previous revision value of 21 percent.
- 2010: 92 percent coverage reached in 40 percent of the national target population

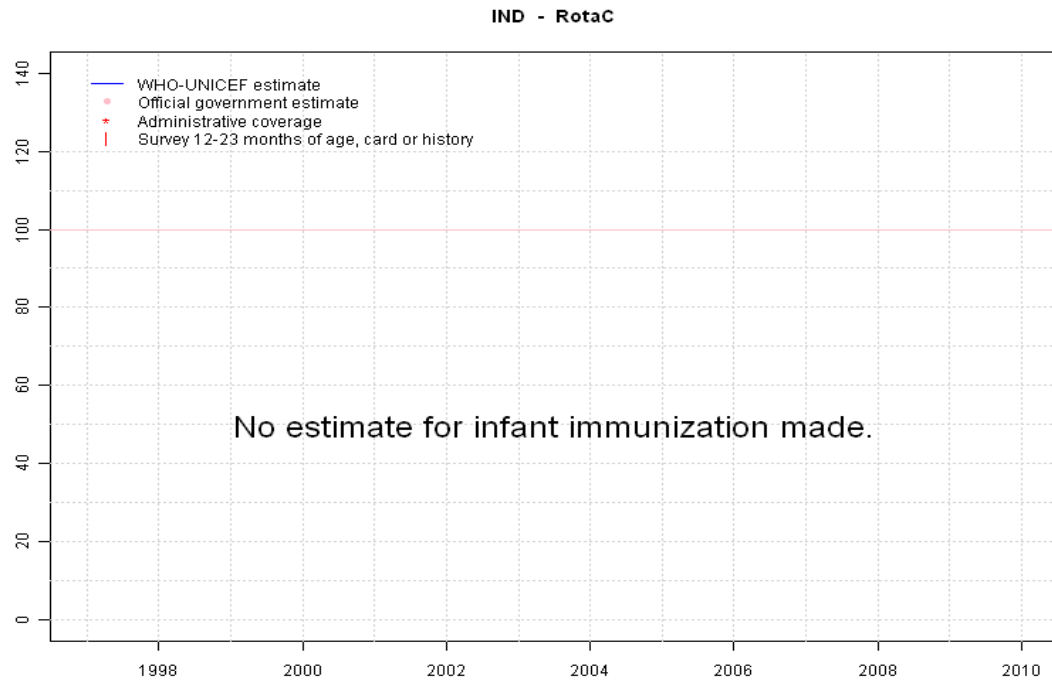
	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Estimate	NA	NA	NA	NA	NA	NA	NA	6	8	6	6	21	29	37
Official	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	34	NA
Administrative	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	34	NA
Survey	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	59	NA	NA

# India - Hib3



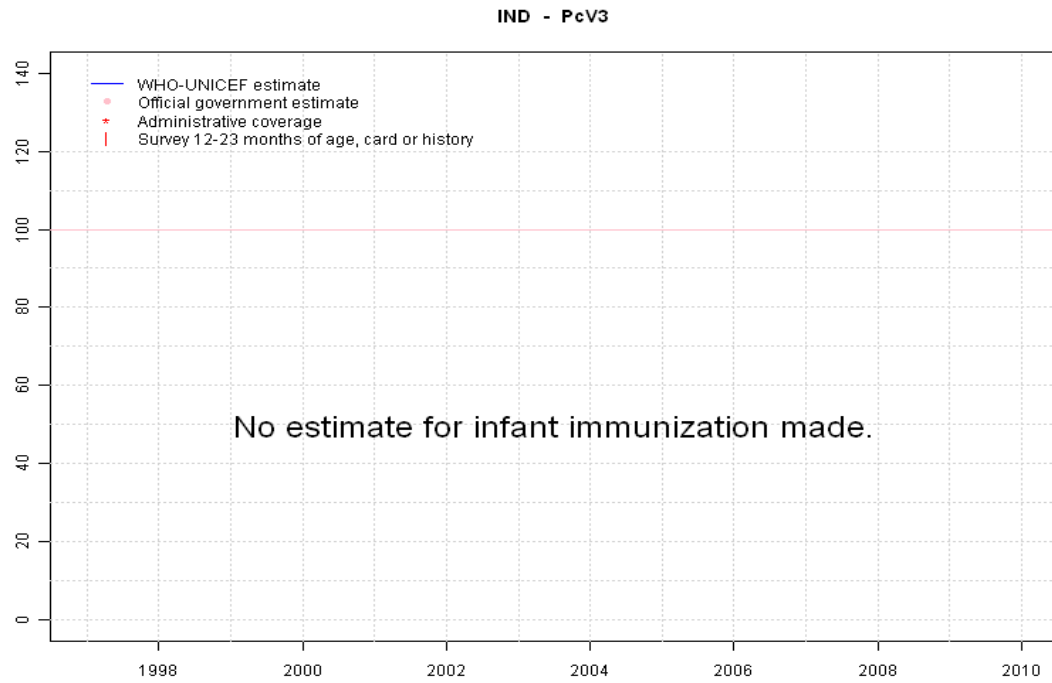
	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Estimate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Official	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Administrative	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Survey	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

# India - 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

# India - 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

# India - survey details

## 2008 India 2009 Coverage Evaluation Survey

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	Card or History	87	12-23 m	22604	52
DTP1	Card or History	83	12-23 m	22604	52
DTP3	Card or History	72	12-23 m	22604	52
HepB1	Card or History	71	12-23 m	22604	52
HepB3	Card or History	59	12-23 m	22604	52
MCV	Card or History	74	12-23 m	22604	52
Pol3	Card or History	70	12-23 m	22604	52

## 2006 India Coverage Evaluation Survey 2006

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	Card or History	87	12-23 m	22888	71
DTP1	Card or History	83	12-23 m	22888	71
DTP3	Card or History	68	12-23 m	22888	71
MCV	Card or History	71	12-23 m	22888	71
Pol1	Card or History	82	12-23 m	22888	71
Pol3	Card or History	68	12-23 m	22888	71

## 2006 India District-Level Household and Facility Survey 2007-2008 (DHLS-3)

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	Card or History	87	12-23 m	65628	43
DTP1	Card or History	82	12-23 m	65628	43
DTP3	Card or History	63	12-23 m	65628	43
MCV	Card or History	69	12-23 m	65628	43
Pol1	Card or History	93	12-23 m	65628	43
Pol3	Card or History	66	12-23 m	65628	43

## 2005 India Coverage Evaluation Survey 2005

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	Card or History	83	12-23 m	15676	71
DTP1	Card or History	80	12-23 m	15676	71
DTP3	Card or History	67	12-23 m	15676	71
MCV	Card or History	68	12-23 m	15676	71
Pol1	Card or History	79	12-23 m	15676	71
Pol3	Card or History	61	12-23 m	15676	71

## 2005 India National Family Health Survey (NFHS-3) 2005-2006

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	History	67	12-23 m	10419	38
BCG	Card	97	12-23 m	10419	38
BCG	Card or History	78	12-23 m	10419	38
BCG	C or H <12 months	76	12-23 m	10419	38
DTP1	C or H <12 months	73	12-23 m	10419	38
DTP1	Card	98	12-23 m	10419	38
DTP1	Card or History	76	12-23 m	10419	38
DTP1	History	62	12-23 m	10419	38
DTP3	History	36	12-23 m	10419	38
DTP3	C or H <12 months	52	12-23 m	10419	38
DTP3	Card	87	12-23 m	10419	38
DTP3	Card or History	55	12-23 m	10419	38
MCV	Card	81	12-23 m	10419	38
MCV	Card or History	59	12-23 m	10419	38
MCV	History	45	12-23 m	10419	38
MCV	C or H <12 months	48	12-23 m	10419	38
Pol1	History	90	12-23 m	10419	38
Pol1	C or H <12 months	89	12-23 m	10419	38
Pol1	Card	98	12-23 m	10419	38
Pol1	Card or History	93	12-23 m	10419	38
Pol3	Card or History	78	12-23 m	10419	38
Pol3	Card	87	12-23 m	10419	38
Pol3	History	73	12-23 m	10419	38
Pol3	C or H <12 months	73	12-23 m	10419	38

## 2002 Reproductive and Child Health (District Level Household Survey 2002-2004) - India

# India - survey details

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	Card or History	75	12-23 m	62505	31
DTP1	Card or History	73	12-23 m	62505	31
DTP3	Card or History	58	12-23 m	62505	31
MCV	Card or History	56	12-23 m	62505	31
Pol3	Card or History	57	12-23 m	62505	31

## 2001 Routine Immunization and Maternal Care, CES, 2002

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	C or H <12 months	74	12-23 m	0	54
DTP1	C or H <12 months	71	12-23 m	0	54
DTP3	C or H <12 months	64	12-23 m	0	54
MCV	C or H <12 months	61	12-23 m	0	54
Pol3	C or H <12 months	68	12-23 m	0	54

## 2000 Routine Immunization and Maternal Care, CES, 2001

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	C or H <12 months	73	12-23 m	0	57
DTP1	C or H <12 months	71	12-23 m	0	57
DTP3	C or H <12 months	64	12-23 m	0	57
MCV	C or H <12 months	56	12-23 m	0	57
Pol3	C or H <12 months	70	12-23 m	0	57

## 1999 India, Multiple Indicator Cluster Survey India (MICS-II) 2000

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	Card or History	68	12-23 m	0	0
DTP1	Card or History	64	12-23 m	0	0
DTP3	Card or History	47	12-23 m	0	0
MCV	Card or History	50	12-23 m	0	0
Pol1	Card or History	70	12-23 m	0	0

Pol3 Card or History 59 12-23 m 0 0

## 1998 Evaluation of Routine Immunization 1998-99

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	Card or History	72	12-23 m	7855	48
DTP1	Card or History	73	12-23 m	7855	48
DTP3	Card or History	69	12-23 m	7855	48
MCV	Card or History	55	12-23 m	7855	48
Pol1	Card or History	73	12-23 m	7855	48
Pol3	Card or History	69	12-23 m	7855	48

## 1998 National Family Health Survey, India 1998-99

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	C or H <12 months	69	12-23 m	10076	34
BCG	Card	95	12-23 m	3393	34
BCG	Card or History	72	12-23 m	10076	34
BCG	History	60	12-23 m	6684	34
BCG	C or H <12 months	65	24-35 m	9813	24
DTP1	C or H <12 months	69	12-23 m	10076	34
DTP1	Card or History	71	12-23 m	10076	34
DTP1	History	58	12-23 m	6684	34
DTP1	Card	99	12-23 m	3393	34
DTP1	C or H <12 months	64	24-35 m	9813	24
DTP3	History	40	12-23 m	6684	34
DTP3	Card or History	55	12-23 m	10076	34
DTP3	Card	86	12-23 m	3393	34
DTP3	C or H <12 months	52	12-23 m	10076	34
DTP3	C or H <12 months	50	24-35 m	9813	24
MCV	Card or History	51	12-23 m	10076	34
MCV	Card	73	12-23 m	3393	34
MCV	History	39	12-23 m	6684	34
MCV	C or H <12 months	42	12-23 m	10076	34
MCV	C or H <12 months	41	24-35 m	9813	24
Pol1	C or H <12 months	80	12-23 m	10076	34
Pol1	Card	98	12-23 m	3393	34

# India - survey details

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Pol1	Card or History	84	12-23 m	10076	34
Pol1	History	76	12-23 m	6684	34
Pol1	C or H <12 months	76	24-35 m	9813	24
Pol3	Card	85	12-23 m	3393	34
Pol3	History	51	12-23 m	6684	34
Pol3	Card or History	63	12-23 m	10076	34
Pol3	C or H <12 months	59	12-23 m	10076	34
Pol3	C or H <12 months	60	24-35 m	9813	24

## 1997 Evaluation of Routine Immunization 1997-98

Vaccine Confirmation method Coverage Age cohort Sample Cards seen

BCG	Card or History	81	24-35 m	2673	0
DTP3	Card or History	77	24-35 m	2673	0
MCV	Card or History	72	24-35 m	2673	0
Pol3	Card or History	77	24-35 m	2673	0

## 1997 Evaluation of Routine Immunization 1998-99

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
DTP3	Card or History	77	12-23 m	0	0
Pol3	Card or History	77	12-23 m	0	0

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)

## India

### 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	84
1998	84
1999	85
2000	85
2001	83
2002	87
2003	86
2004	86
2005	86
2006	86
2007	86
2008	86
2009	86
2010	87

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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.