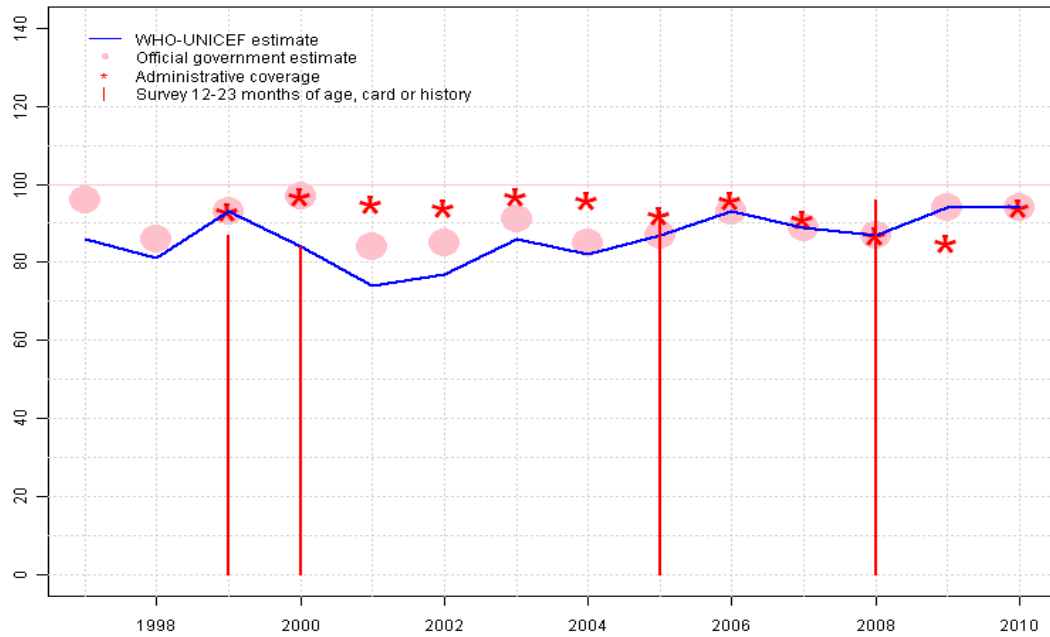


Nepal - BCG

NPL - BCG



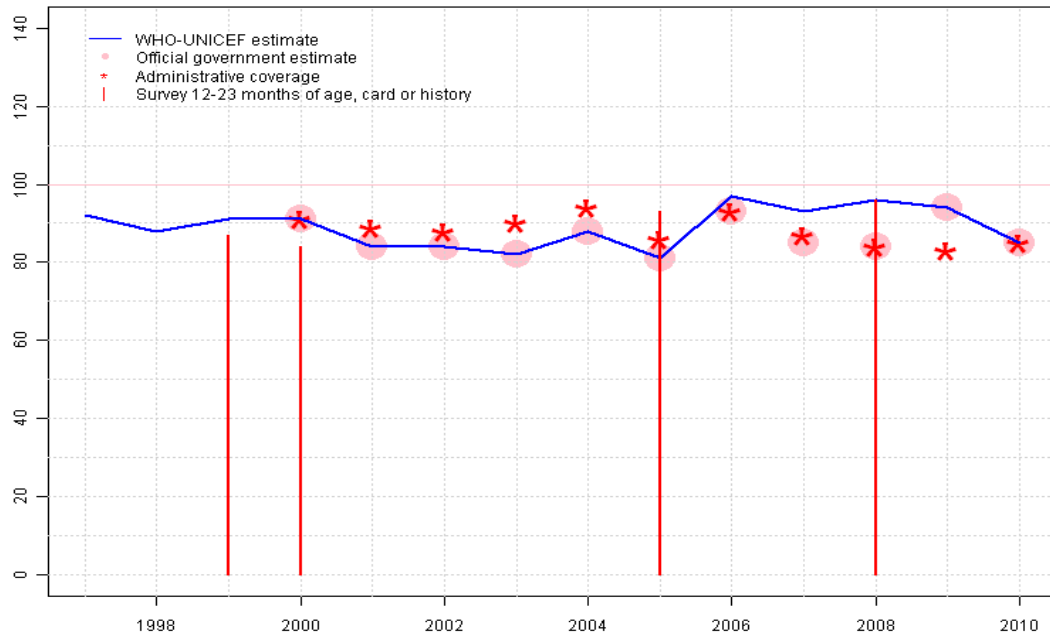
Description:

- 1997: Legacy estimate.
- 1998: Reported data calibrated to 1997 and 1999 levels. Current estimate of 81 percent changed from previous revision value of 90 percent.
- 1999: Estimate based on reported data. 87 percent survey results supports reported data of 93 percent.
- 2000: Estimate based on survey results. 84 percent survey results does not support reported data of 97 percent.
- 2001: Reported data calibrated to 2000 and 2005 levels. Current estimate of 74 percent changed from previous revision value of 85 percent.
- 2002: Reported data calibrated to 2000 and 2005 levels. Current estimate of 77 percent changed from previous revision value of 85 percent.
- 2003: Reported data calibrated to 2000 and 2005 levels.
- 2004: Reported data calibrated to 2000 and 2005 levels. Current estimate of 82 percent changed from previous revision value of 86 percent.
- 2005: Estimate based on reported data.
- 2006: Estimate based on reported data.
- 2007: Estimate based on reported data.
- 2008: Estimate based on reported data. 96 percent survey results supports reported data of 87 percent.
- 2009: Nationally reported data based on the results of a 2009 survey. Current estimate of 94 percent changed from previous revision value of 87 percent.
- 2010: Estimate based on reported data. Target population adjusted by HMIS for 2010.

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Estimate	86	81	93	84	74	77	86	82	87	93	89	87	94	94
Official	96	86	93	97	84	85	91	85	87	93	89	87	94	94
Administrative	NA	NA	93	97	95	94	97	96	92	96	91	87	85	94
Survey	NA	NA	87	84	NA	NA	NA	NA	93	NA	NA	96	NA	NA

Nepal - DTP1

NPL - DTP1



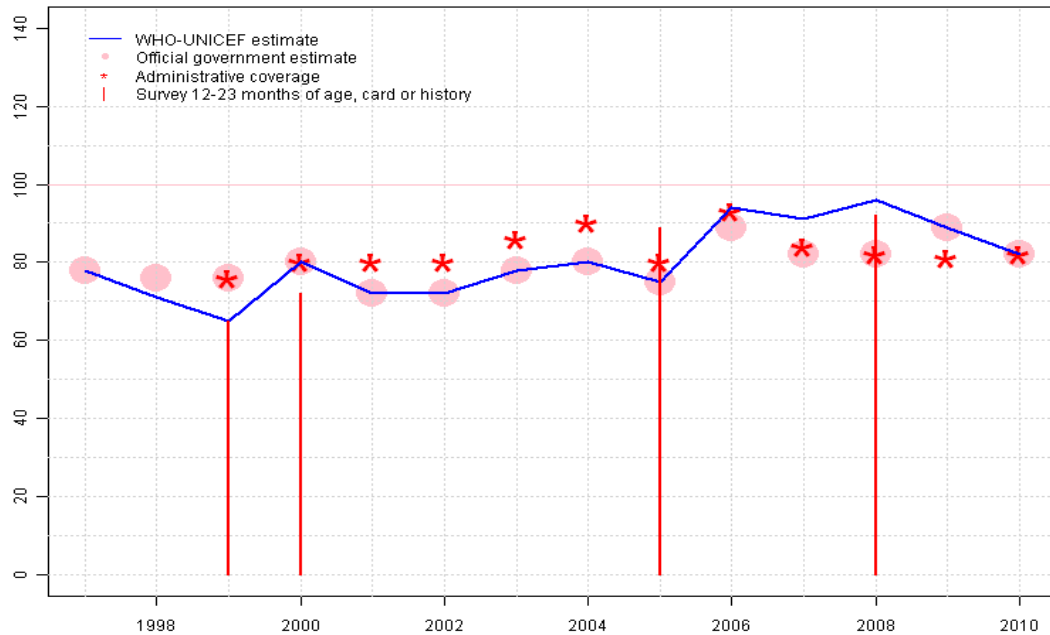
Description:

- 1997: Legacy estimate.
- 1998: No accepted DTP1 data. Estimate based on DTP3 coverage of 71. Current estimate of 88 percent changed from previous revision value of 92 percent.
- 1999: No accepted reported data. Reported data of 91 percent estimated by extrapolating from 2000 supports trend in reported data. 87 percent survey results
- 2000: Estimate based on reported data. 84 percent survey results supports reported data of 91 percent.
- 2001: Estimate based on reported data.
- 2002: Estimate based on reported data.
- 2003: Estimate based on reported data.
- 2004: Estimate based on reported data.
- 2005: Estimate based on reported data.
- 2006: Reported data calibrated to 2005 and 2008 levels. Current estimate of 97 percent changed from previous revision value of 93 percent.
- 2007: Reported data calibrated to 2005 and 2008 levels. Current estimate of 93 percent changed from previous revision value of 85 percent.
- 2008: Estimate based on survey results. 96 percent survey results does not support reported data of 84 percent. Current estimate of 96 percent changed from previous revision value of 84 percent.
- 2009: Nationally reported data based on the results of a 2009 survey. Current estimate of 94 percent changed from previous revision value of 84 percent.
- 2010: Estimate based on reported data. Target population adjusted by HMIS for 2010. Decline in coverage attributed to 2 months vaccine stock out.

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Estimate	92	88	91	91	84	84	82	88	81	97	93	96	94	85
Official	NA	NA	NA	91	84	84	82	88	81	93	85	84	94	85
Administrative	NA	NA	NA	91	89	88	90	94	86	93	87	84	83	85
Survey	NA	NA	87	84	NA	NA	NA	NA	93	NA	NA	96	NA	NA

Nepal - DTP3

NPL - DTP3



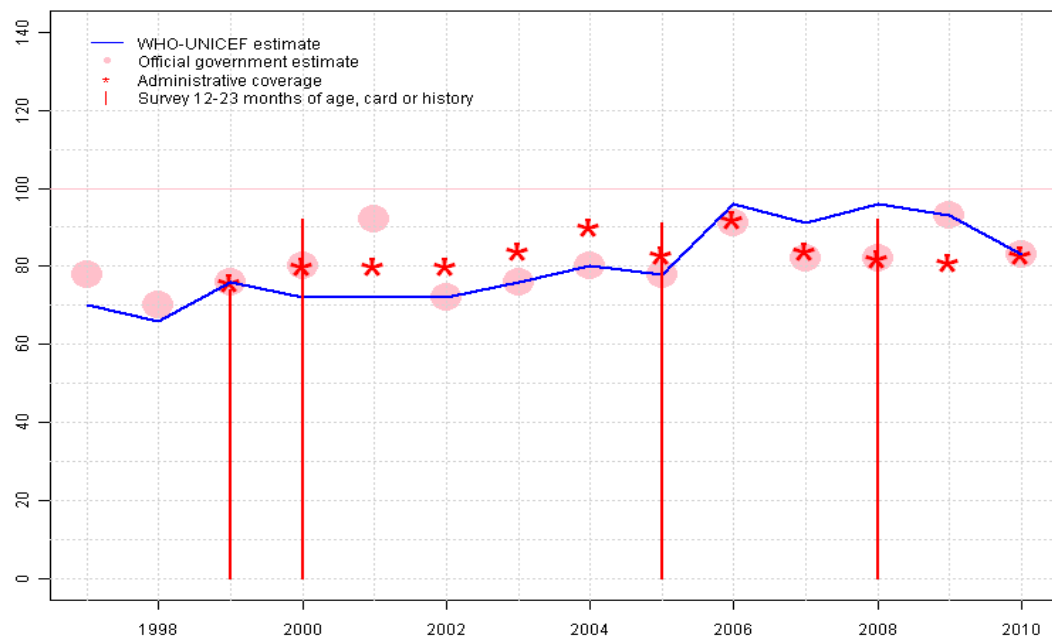
	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Estimate	78	71	65	80	72	72	78	80	75	94	91	96	89	82
Official	78	76	76	80	72	72	78	80	75	89	82	82	89	82
Administrative	NA	NA	76	80	80	80	86	90	80	93	84	82	81	82
Survey	NA	NA	65	72	NA	NA	NA	NA	89	NA	NA	92	NA	NA

Description:

- 1997: Legacy estimate.
- 1998: Reported data calibrated to 1997 and 1999 levels.
- 1999: Estimate based on survey results. 65 percent survey results does not support reported data of 76 percent.
- 2000: Estimate based on reported data. 74 percent survey results supports reported data of 80 percent. Survey results of 72 percent modified for recall bias to 74 percent based on 1st dose card or history coverage of 84 percent, 1st dose card only coverage of 16 percent and 3d dose card only coverage of 14 percent.
- 2001: Estimate based on reported data.
- 2002: Estimate based on reported data.
- 2003: Estimate based on reported data.
- 2004: Estimate based on reported data.
- 2005: Estimate based on reported data. Survey results of 89 percent modified for recall bias to 90 percent based on 1st dose card or history coverage of 93 percent, 1st dose card only coverage of 32 percent and 3d dose card only coverage of 31 percent.
- 2006: Reported data calibrated to 2005 and 2008 levels. Current estimate of 94 percent changed from previous revision value of 89 percent.
- 2007: Reported data calibrated to 2005 and 2008 levels. Current estimate of 91 percent changed from previous revision value of 82 percent.
- 2008: Estimate based on survey results. 96 percent survey results does not support reported data of 82 percent. Survey results of 92 percent modified for recall bias to 96 percent based on 1st dose card or history coverage of 96 percent, 1st dose card only coverage of 32 percent and 3d dose card only coverage of 32 percent. Current estimate of 96 percent changed from previous revision value of 82 percent.
- 2009: Nationally reported data based on the results of a 2009 survey. Current estimate of 89 percent changed from previous revision value of 82 percent.
- 2010: Estimate based on reported data. Target population adjusted by HMIS for 2010. Decline in coverage attributed to 2 months vaccine stock out.

Nepal - Pol3

NPL - Pol3



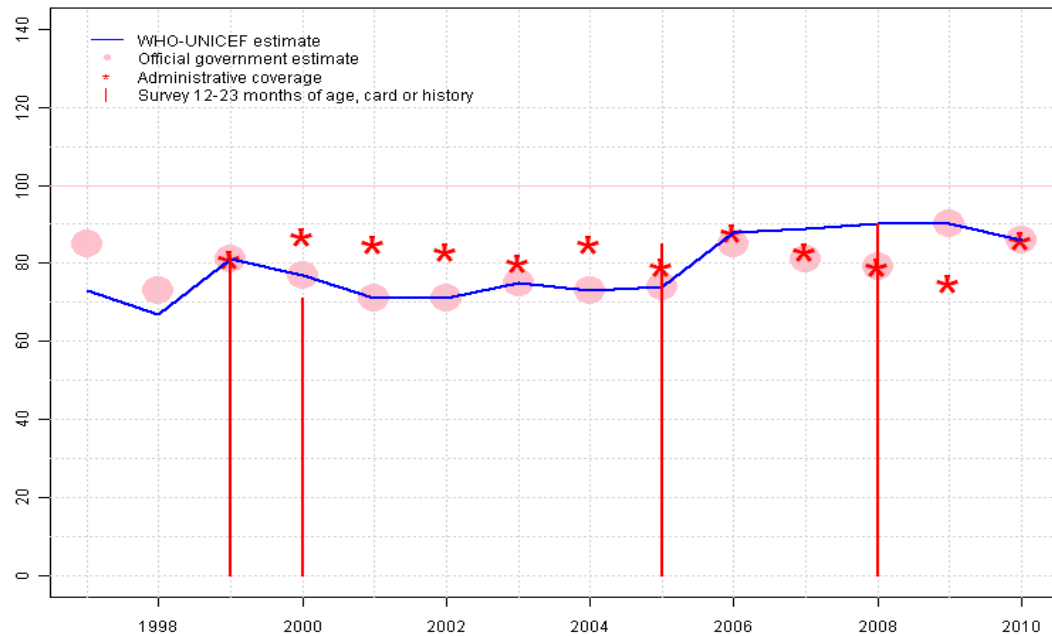
	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Estimate	70	66	76	72	72	72	76	80	78	96	91	96	93	83
Official	78	70	76	80	92	72	76	80	78	91	82	82	93	83
Administrative	NA	NA	76	80	80	80	84	90	83	92	84	82	81	83
Survey	NA	NA	74	92	NA	NA	NA	NA	91	NA	NA	92	NA	NA

Description:

- 1997: Legacy estimate.
- 1998: Reported data calibrated to 1997 and 1999 levels. Current estimate of 66 percent changed from previous revision value of 73 percent.
- 1999: Estimate based on reported data. 74 percent survey results supports reported data of 76 percent.
- 2000: Survey results significantly higher than DTP3 results and likely contain immunizations administered during campaigns. Estimates set to DTP3 level. Survey results of 92 percent modified for recall bias to 99 percent based on 1st dose card or history coverage of 99 percent, 1st dose card only coverage of 16 percent and 3d dose card only coverage of 16 percent.
- 2001: Estimate based on interpolation between 2000 and 2002. Reported data not accepted due to an increase from 80 percent to 92 percent with a subsequent decrease to 72 percent. Estimate not based on reported data.
- 2002: Estimate based on reported data.
- 2003: Estimate based on reported data.
- 2004: Estimate based on reported data.
- 2005: Estimate based on reported data. 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 32 percent and 3d dose card only coverage of 31 percent.
- 2006: Reported data calibrated to 2005 and 2008 levels. Current estimate of 96 percent changed from previous revision value of 91 percent.
- 2007: Reported data calibrated to 2005 and 2008 levels. Current estimate of 91 percent changed from previous revision value of 82 percent.
- 2008: Estimate based on survey results. 96 percent survey results does not support reported data of 82 percent. Survey results of 92 percent modified for recall bias to 96 percent based on 1st dose card or history coverage of 96 percent, 1st dose card only coverage of 32 percent and 3d dose card only coverage of 32 percent. Current estimate of 96 percent changed from previous revision value of 82 percent.
- 2009: Nationally reported data based on the results of a 2009 survey. Current estimate of 93 percent changed from previous revision value of 82 percent.
- 2010: Estimate based on reported data. Target population adjusted by HMIS for 2010.

Nepal - MCV

NPL - MCV



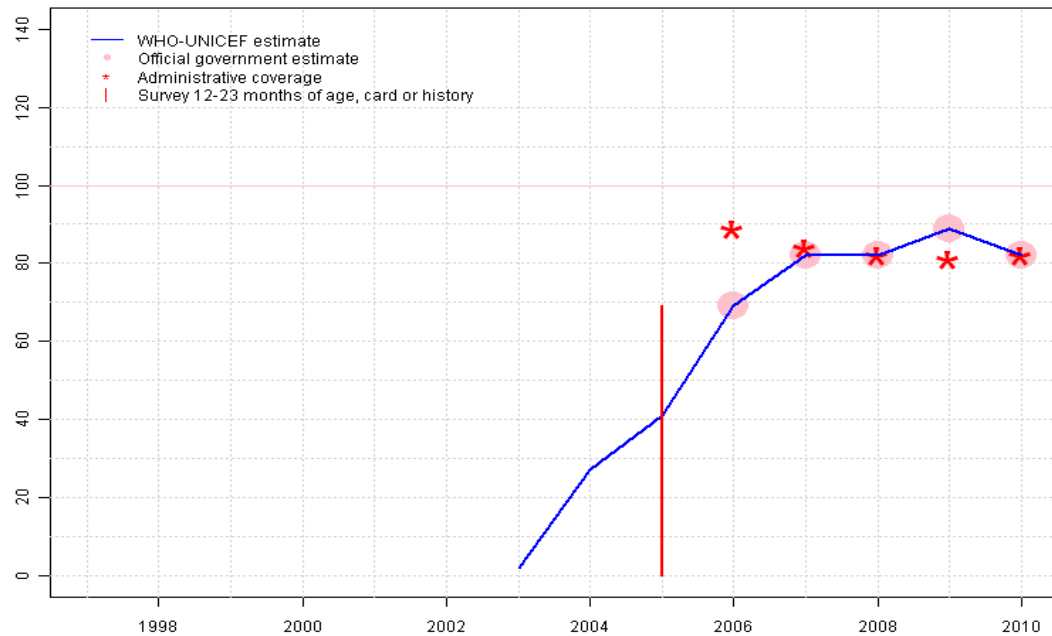
Description:

- 1997: Legacy estimate.
- 1998: Reported data calibrated to 1997 and 1999 levels. Current estimate of 67 percent changed from previous revision value of 77 percent.
- 1999: Estimate based on reported data. 82 percent survey results supports reported data of 81 percent.
- 2000: Estimate based on reported data. 71 percent survey results supports reported data of 77 percent.
- 2001: Estimate based on reported data.
- 2002: Estimate based on reported data.
- 2003: Estimate based on reported data.
- 2004: Estimate based on reported data.
- 2005: Estimate based on reported data.
- 2006: Reported data calibrated to 2005 and 2008 levels. Current estimate of 88 percent changed from previous revision value of 85 percent.
- 2007: Reported data calibrated to 2005 and 2008 levels. Current estimate of 89 percent changed from previous revision value of 81 percent.
- 2008: Estimate based on survey results. 90 percent survey results does not support reported data of 79 percent. Current estimate of 90 percent changed from previous revision value of 79 percent.
- 2009: Nationally reported data based on the results of a 2009 survey. Current estimate of 90 percent changed from previous revision value of 79 percent.
- 2010: Estimate based on reported data. Target population adjusted by HMIS for 2010.

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Estimate	73	67	81	77	71	71	75	73	74	88	89	90	90	86
Official	85	73	81	77	71	71	75	73	74	85	81	79	90	86
Administrative	NA	NA	81	87	85	83	80	85	79	88	83	79	75	86
Survey	NA	NA	82	71	NA	NA	NA	NA	85	NA	NA	90	NA	NA

Nepal - HepB3

NPL - HepB3



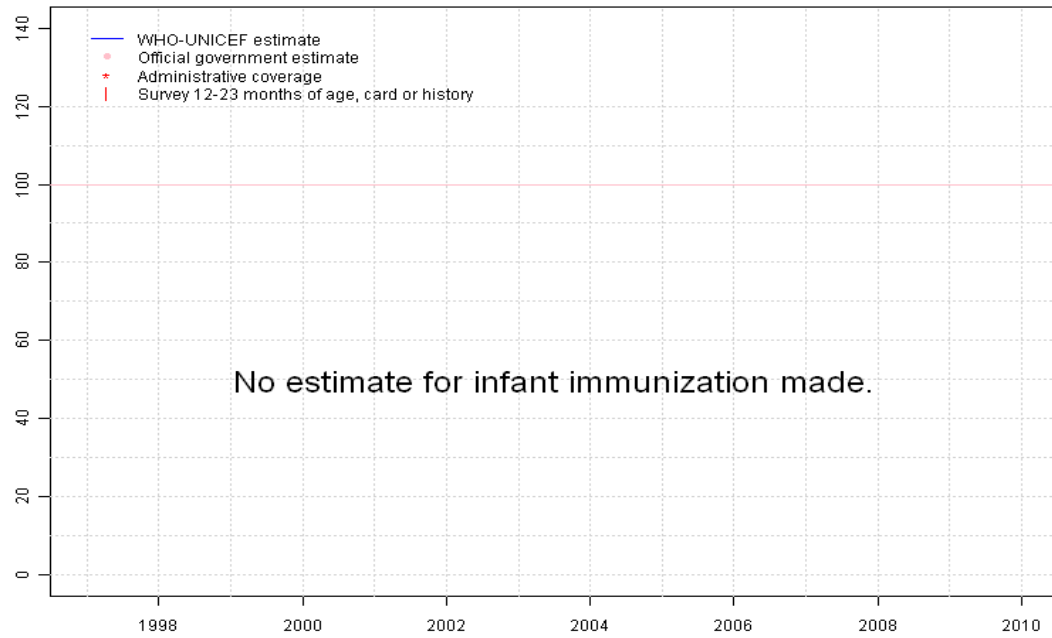
Description:

- 2003: In 2003, hepatitis B vaccine introduced in part of the country and 15 percent coverage was achieved in 17 percent of the country. HepB partially introduced in 2002 nationally in 2005 reporting started in 2003. Vaccine presentation is DTP-HepB.
- 2004: Eighty-seven percent coverage achieved in 31 percent of the country.
- 2005: Fifty-two percent coverage achieved in 41 percent of the country. Survey results of 69 percent modified for recall bias to 68 percent based on 1st dose card or history coverage of 76 percent, 1st dose card only coverage of 30 percent and 3d dose card only coverage of 27 percent.
- 2006: Estimate based on reported data.
- 2007: Estimate based on reported data.
- 2008: Estimate based on reported data.
- 2009: Estimate based on reported data. Current estimate of 89 percent changed from previous revision value of 82 percent.
- 2010: Estimate based on reported data. Target population adjusted by HMIS for 2010. Decline in coverage attributed to 2 months vaccine stock out.

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Estimate	NA	NA	NA	NA	NA	NA	2	27	41	69	82	82	89	82
Official	NA	NA	NA	NA	NA	NA	NA	NA	NA	69	82	82	89	82
Administrative	NA	NA	NA	NA	NA	NA	NA	NA	NA	89	84	82	81	82
Survey	NA	NA	NA	NA	NA	NA	NA	NA	69	NA	NA	NA	NA	NA

Nepal - Hib3

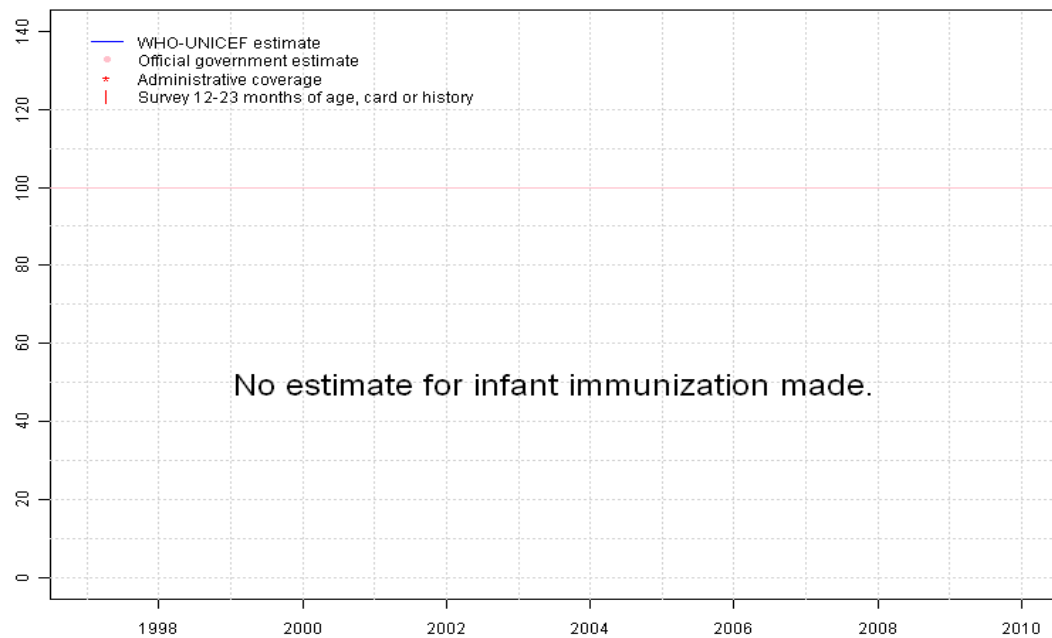
NPL - Hib3



	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

Nepal - RotaC

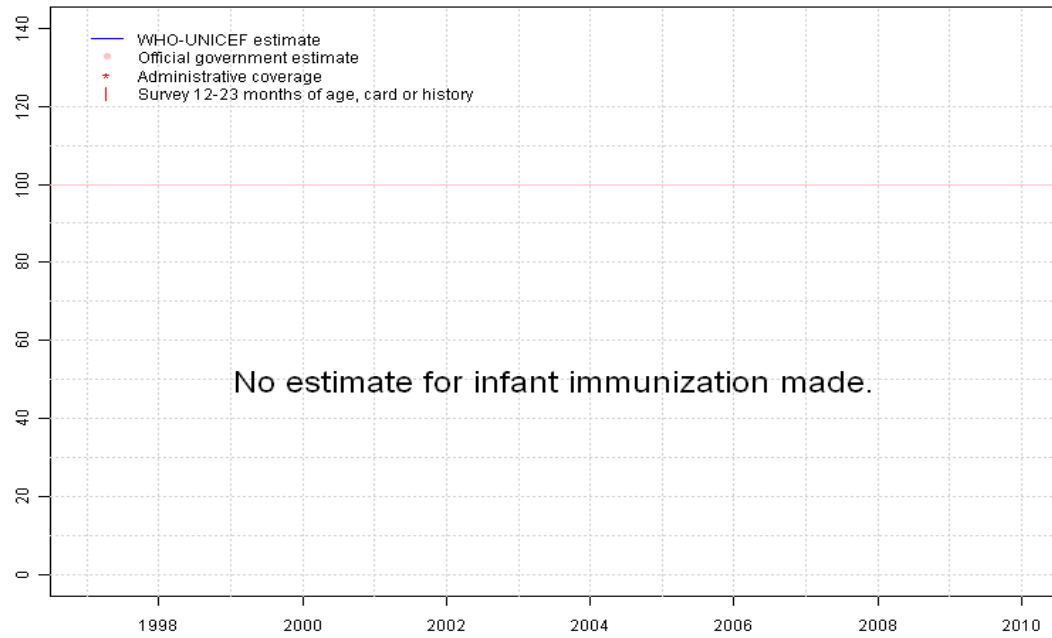
NPL - RotaC



	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

Nepal - PcV3

NPL - 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

Nepal - survey details

2008 Immunization Coverage Survey Nepal, 2009

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	Card or History	96	12-23 m	9775	32
BCG	History	64	12-23 m	9775	32
BCG	Card	32	12-23 m	9775	32
DTP1	Card or History	96	12-23 m	9775	32
DTP1	Card	32	12-23 m	9775	32
DTP1	History	63	12-23 m	9775	32
DTP3	History	60	12-23 m	9775	32
DTP3	Card or History	92	12-23 m	9775	32
DTP3	Card	32	12-23 m	9775	32
MCV	History	59	12-23 m	9775	32
MCV	Card or History	90	12-23 m	9775	32
MCV	Card	31	12-23 m	9775	32
Pol1	Card	32	12-23 m	9775	32
Pol1	History	64	12-23 m	9775	32
Pol1	Card or History	96	12-23 m	9775	32
Pol3	Card	32	12-23 m	9775	32
Pol3	History	60	12-23 m	9775	32
Pol3	Card or History	92	12-23 m	9775	32

2005 Nepal Demographic and Health Survey 2006

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	Card or History	93	12-23 m	984	32
BCG	History	62	12-23 m	984	32
BCG	Card	32	12-23 m	984	32
BCG	C or H <12 months	93	12-23 m	984	32
DTP1	C or H <12 months	92	12-23 m	984	32
DTP1	Card	32	12-23 m	984	32
DTP1	Card or History	93	12-23 m	984	32
DTP1	History	61	12-23 m	984	32
DTP3	C or H <12 months	88	12-23 m	984	32
DTP3	Card	31	12-23 m	984	32
DTP3	Card or History	89	12-23 m	984	32
DTP3	History	57	12-23 m	984	32
HepB1	Card	30	12-23 m	984	32

HepB1	Card or History	76	12-23 m	984	32
HepB1	History	47	12-23 m	984	32
HepB1	C or H <12 months	76	12-23 m	984	32
HepB3	History	42	12-23 m	984	32
HepB3	Card or History	69	12-23 m	984	32
HepB3	Card	27	12-23 m	984	32
HepB3	C or H <12 months	68	12-23 m	984	32
MCV	Card	28	12-23 m	984	32
MCV	C or H <12 months	80	12-23 m	984	32
MCV	History	56	12-23 m	984	32
MCV	Card or History	85	12-23 m	984	32
Pol1	C or H <12 months	97	12-23 m	984	32
Pol1	History	65	12-23 m	984	32
Pol1	Card	32	12-23 m	984	32
Pol1	Card or History	97	12-23 m	984	32
Pol3	C or H <12 months	90	12-23 m	984	32
Pol3	Card	31	12-23 m	984	32
Pol3	Card or History	91	12-23 m	984	32
Pol3	History	60	12-23 m	984	32

2000 Nepal Demographic and Health Survey 2001

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	Card	16	12-23 m	1313	16
BCG	C or H <12 months	83	12-23 m	1313	16
BCG	History	68	12-23 m	1313	16
BCG	Card or History	84	12-23 m	1313	16
DTP1	C or H <12 months	82	12-23 m	1313	16
DTP1	Card	16	12-23 m	1313	16
DTP1	Card or History	84	12-23 m	1313	16
DTP1	History	68	12-23 m	1313	16
DTP3	History	58	12-23 m	1313	16
DTP3	Card	14	12-23 m	1313	16
DTP3	C or H <12 months	71	12-23 m	1313	16
DTP3	Card or History	72	12-23 m	1313	16
MCV	History	58	12-23 m	1313	16
MCV	Card or History	71	12-23 m	1313	16
MCV	Card	13	12-23 m	1313	16
MCV	C or H <12 months	64	12-23 m	1313	16

Nepal - survey details

Pol1	History	83	12-23 m	1313	16
Pol1	Card	16	12-23 m	1313	16
Pol1	C or H <12 months	97	12-23 m	1313	16
Pol1	Card or History	99	12-23 m	1313	16
Pol3	Card or History	92	12-23 m	1313	16
Pol3	History	76	12-23 m	1313	16
Pol3	C or H <12 months	90	12-23 m	1313	16
Pol3	Card	16	12-23 m	1313	16

1999 Report on the Situation of Women, Children and Households 2000, 2001

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	Card or History	87	12-23 m	1068	79
DTP1	Card or History	87	12-23 m	1068	79
DTP3	Card or History	65	12-23 m	1068	79

MCV	Card or History	82	12-23 m	1068	79
Pol1	Card or History	93	12-23 m	1068	79
Pol3	Card or History	74	12-23 m	1068	79

1997 Nepal, Routine Immunization and NID Coverage Survey Report 1998

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	C or H <12 months	86	12-23 m	0	17
DTP1	C or H <12 months	87	12-23 m	0	17
DTP3	C or H <12 months	76	12-23 m	0	17
MCV	C or H <12 months	73	12-23 m	0	17
Pol1	C or H <12 months	86	12-23 m	0	17
Pol3	C or H <12 months	70	12-23 m	0	17

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

http://www.childinfo.org/immunization_countryreports.html

http://www.who.int/immunization_monitoring/routine/immunization_coverage/en/index4.html

Nepal

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	59
1998	61
1999	62
2000	67
2001	76
2002	85
2003	90
2004	90
2005	88
2006	86
2007	84
2008	81
2009	81
2010	81

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.