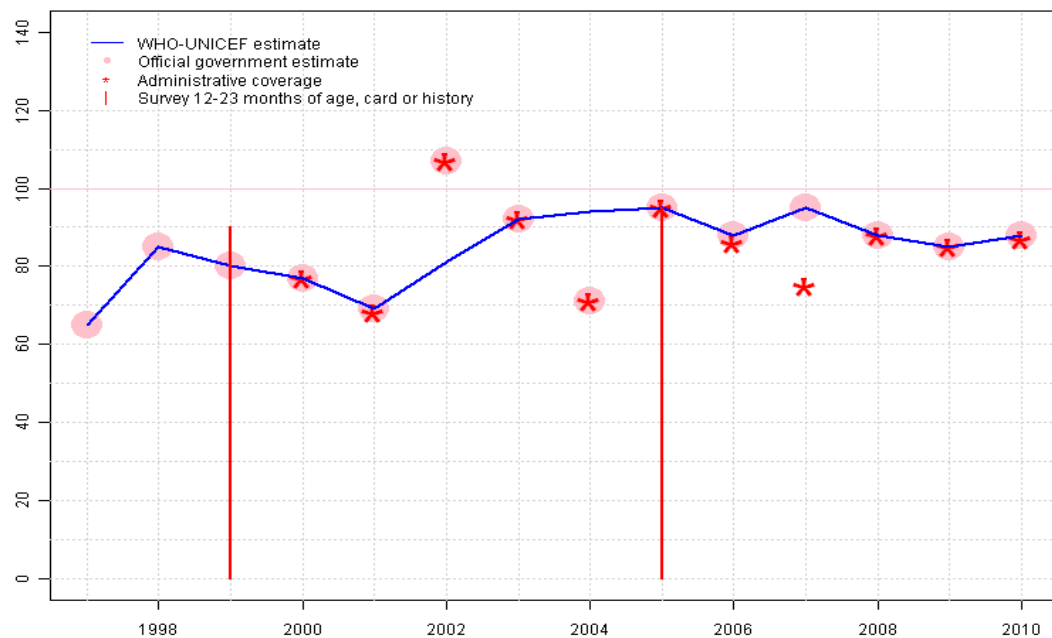


Namibia - BCG

NAM - BCG



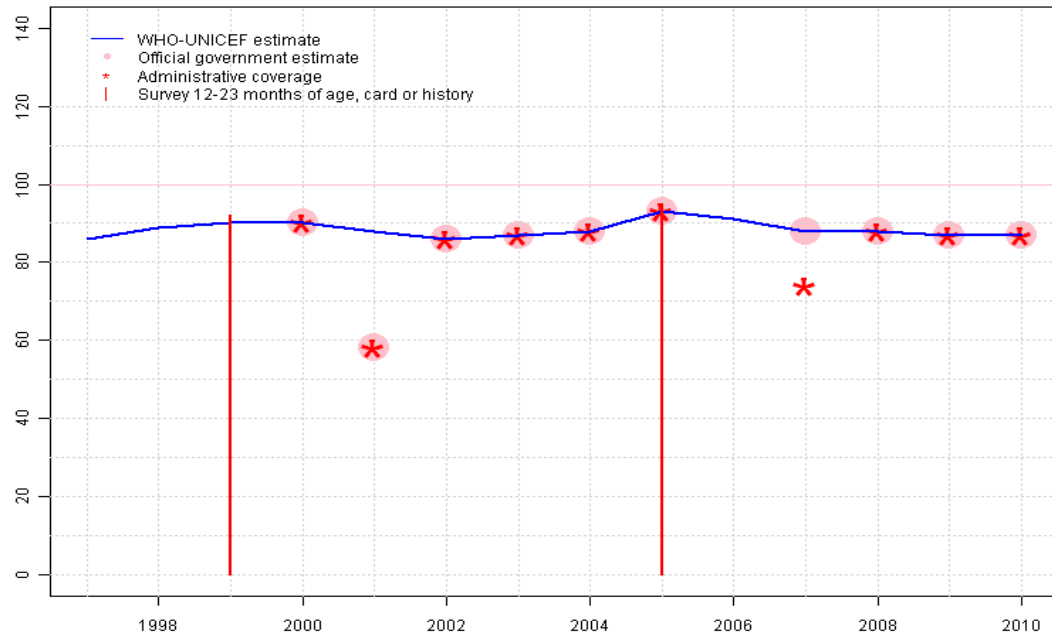
Description:

- 1997: Legacy estimate.
- 1998: Estimate based on reported data.
- 1999: Survey confirms high levels of coverage.
- 2000: Estimate based on reported data.
- 2001: Estimate based on reported data.
- 2002: Estimate based on interpolation between 2001 and 2003. Reported data of 107 percent greater than 100 percent. Reported data not accepted due to an increase from 69 percent to 107 percent with a subsequent decrease to 92 percent.
- 2003: Estimate based on reported data.
- 2004: Estimate based on interpolation between 2003 and 2005. Reported data not accepted due to a decline from 92 percent to 71 percent with a subsequent increase to 95 percent.
- 2005: Estimate based on reported data. 95 percent survey results supports reported data of 95 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.
- 2010: Estimate based on reported data.

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Estimate	65	85	80	77	69	81	92	94	95	88	95	88	85	88
Official	65	85	80	77	69	107	92	71	95	88	95	88	85	88
Administrative	NA	NA	NA	77	68	107	92	71	95	86	75	88	85	87
Survey	NA	NA	90	NA	NA	NA	NA	NA	95	NA	NA	NA	NA	NA

Namibia - DTP1

NAM - DTP1



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 88 percent.

1999: No accepted reported data. Reported data of 90 percent estimated by extrapolating from 2000 supports trend in reported data. 92 percent survey results

2000: Estimate based on reported data.

2001: Estimate based on interpolation between 2000 and 2002. Reported data not accepted due to a decline from 90 percent to 58 percent with a subsequent increase to 86 percent.

2002: Estimate based on reported data.

2003: Estimate based on reported data.

2004: Estimate based on reported data.

2005: Estimate based on reported data. 95 percent survey results supports reported data of 93 percent.

2006: Estimate based on interpolation between 2005 and 2007.

2007: Estimate based on reported data.

2008: Estimate based on reported data.

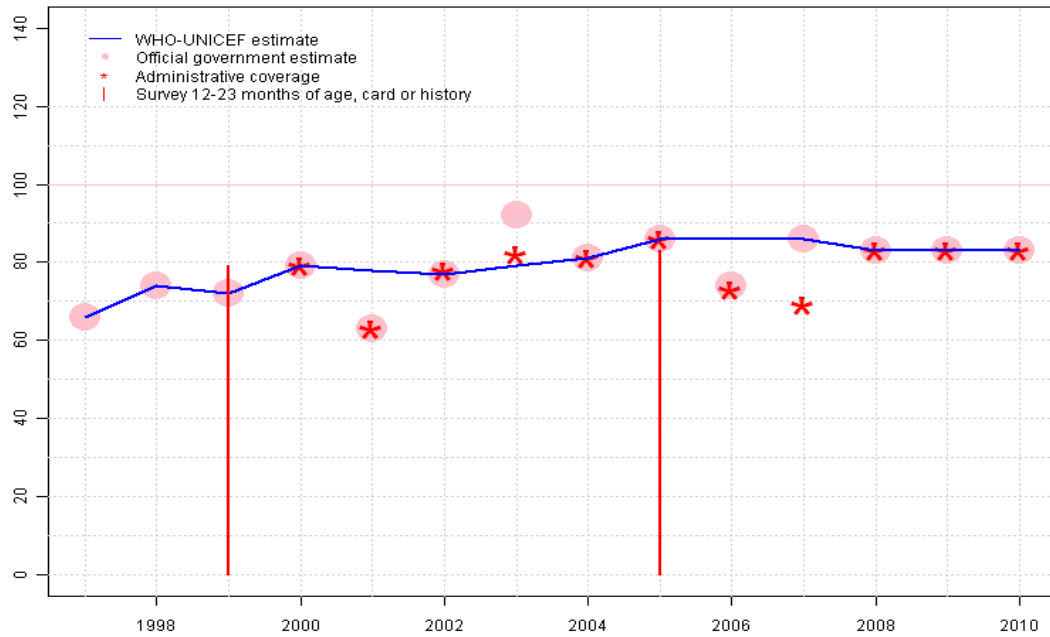
2009: Estimate based on reported data.

2010: Estimate based on reported data.

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Estimate	86	89	90	90	88	86	87	88	93	91	88	88	87	87
Official	NA	NA	NA	90	58	86	87	88	93	NA	88	88	87	87
Administrative	NA	NA	NA	90	58	86	87	88	93	NA	74	88	87	87
Survey	NA	NA	92	NA	NA	NA	NA	NA	95	NA	NA	NA	NA	NA

Namibia - DTP3

NAM - DTP3



	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Estimate	66	74	72	79	78	77	79	81	86	86	86	83	83	83
Official	66	74	72	79	63	77	92	81	86	74	86	83	83	83
Administrative	NA	NA	NA	79	63	78	82	81	86	73	69	83	83	83
Survey	NA	NA	79	NA	NA	NA	NA	NA	83	NA	NA	NA	NA	NA

Description:

1997: Legacy estimate.

1998: Estimate based on reported data.

1999: Survey confirms high levels of coverage. Survey results of 79 percent modified for recall bias to 88 percent based on 1st dose card or history coverage of 92 percent, 1st dose card only coverage of 72 percent and 3d dose card only coverage of 69 percent.

2000: Estimate based on reported data.

2001: Estimate based on interpolation between 2000 and 2002. Reported data not accepted due to a decline from 79 percent to 63 percent with a subsequent increase to 77 percent.

2002: Estimate based on reported data.

2003: Estimate based on interpolation between 2002 and 2004. Reported data not accepted due to an increase from 77 percent to 92 percent with a subsequent decrease to 81 percent.

2004: Estimate based on reported data.

2005: Estimate based on reported data. 88 percent survey results supports reported data of 86 percent. Survey results of 83 percent modified for recall bias to 88 percent based on 1st dose card or history coverage of 95 percent, 1st dose card only coverage of 73 percent and 3d dose card only coverage of 68 percent.

2006: Estimate based on interpolation between 2005 and 2007. Reported data not accepted due to a decline from 86 percent to 74 percent with a subsequent increase to 86 percent.

2007: Estimate based on reported data.

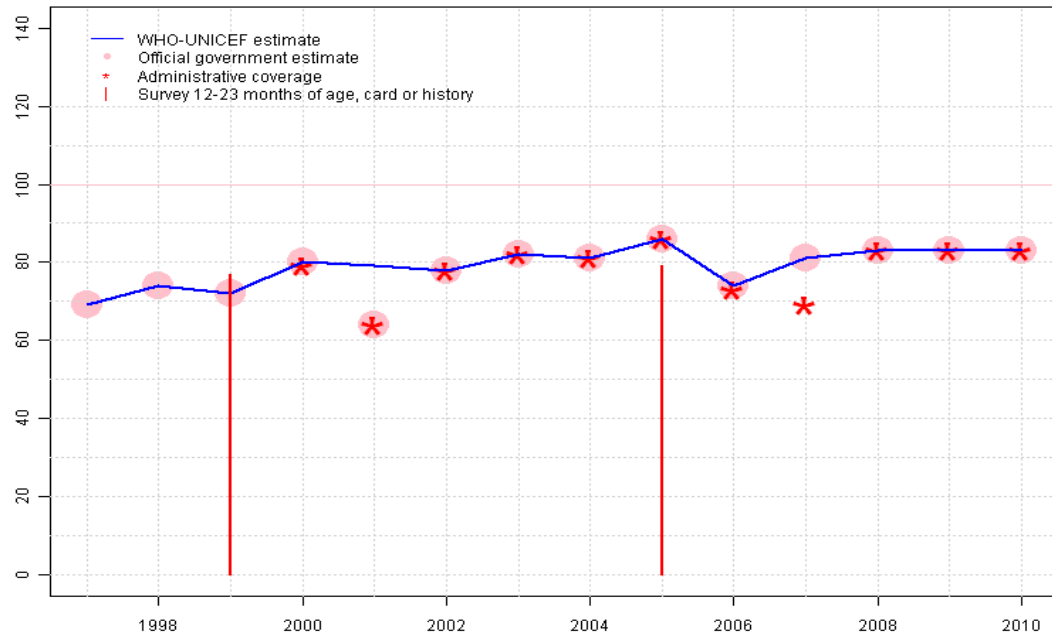
2008: Estimate based on reported data.

2009: Estimate based on reported data.

2010: Estimate based on reported data.

Namibia - Pol3

NAM - Pol3



Description:

1997: Legacy estimate.

1998: Estimate based on reported data.

1999: Survey confirms high levels of coverage. Survey results of 77 percent modified for recall bias to 89 percent based on 1st dose card or history coverage of 94 percent, 1st dose card only coverage of 73 percent and 3d dose card only coverage of 69 percent.

2000: Estimate based on reported data.

2001: Estimate based on interpolation between 2000 and 2002. Reported data not accepted due to a decline from 80 percent to 64 percent with a subsequent increase to 78 percent.

2002: Estimate based on reported data.

2003: Estimate based on reported data.

2004: Estimate based on reported data.

2005: Estimate based on reported data. 88 percent survey results supports reported data of 86 percent. Survey results of 79 percent modified for recall bias to 88 percent based on 1st dose card or history coverage of 95 percent, 1st dose card only coverage of 73 percent and 3d dose card only coverage of 68 percent.

2006: Estimate based on reported data.

2007: Estimate based on reported data.

2008: Estimate based on reported data.

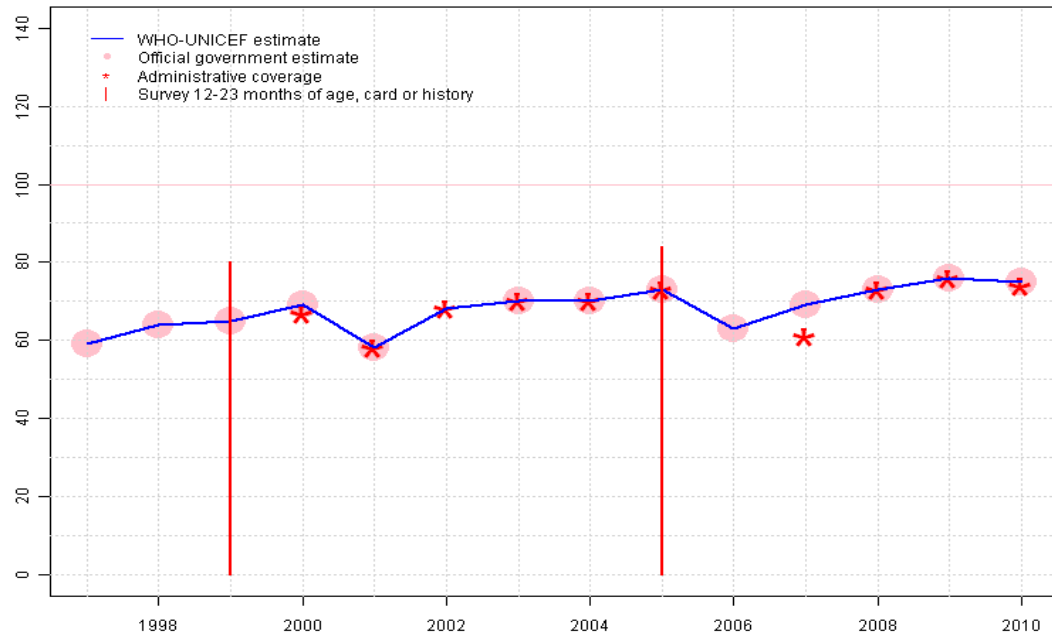
2009: Estimate based on reported data.

2010: Estimate based on reported data.

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Estimate	69	74	72	80	79	78	82	81	86	74	81	83	83	83
Official	69	74	72	80	64	78	82	81	86	74	81	83	83	83
Administrative	NA	NA	NA	79	64	78	82	81	86	73	69	83	83	83
Survey	NA	NA	77	NA	NA	NA	NA	NA	79	NA	NA	NA	NA	NA

Namibia - MCV

NAM - MCV



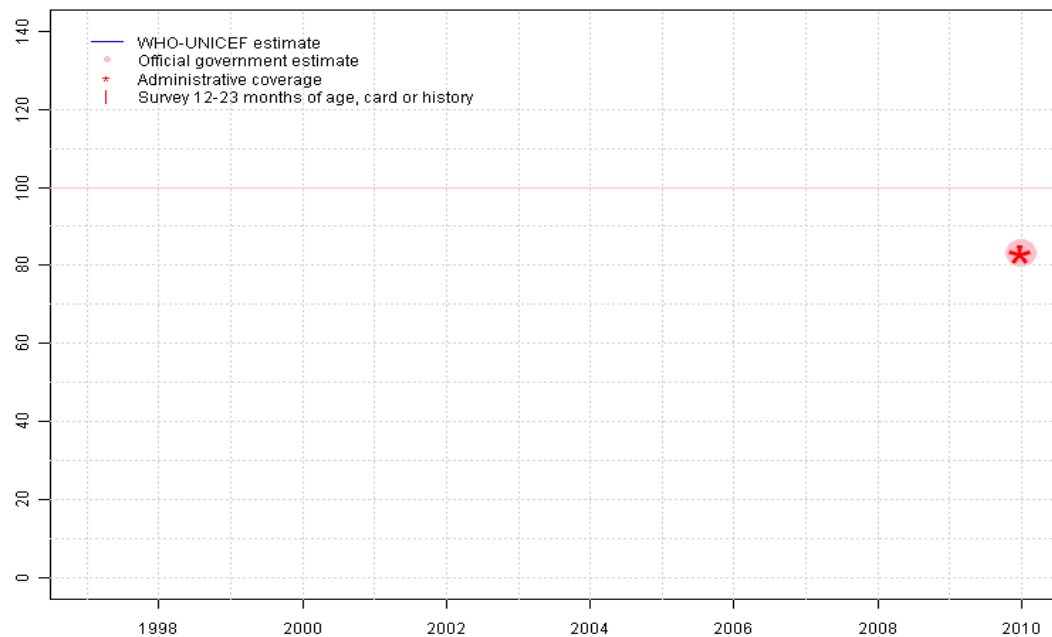
Description:

- 1997: Legacy estimate.
- 1998: Estimate based on reported data.
- 1999: Survey confirms high levels of coverage.
- 2000: Estimate based on reported data.
- 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: Survey supports reported for all other antigens.
- 2006: Estimate based on reported data.
- 2007: Estimate based on reported data.
- 2008: Estimate based on reported data.
- 2009: Estimate based on reported data. Nationally reported estimates accepted for other vaccines.
- 2010: Estimate based on reported data.

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Estimate	59	64	65	69	58	68	70	70	73	63	69	73	76	75
Official	59	64	65	69	58	NA	70	70	73	63	69	73	76	75
Administrative	NA	NA	NA	67	58	68	70	70	73	NA	61	73	76	74
Survey	NA	NA	80	NA	NA	NA	NA	NA	84	NA	NA	NA	NA	NA

Namibia - HepB3

NAM - HepB3



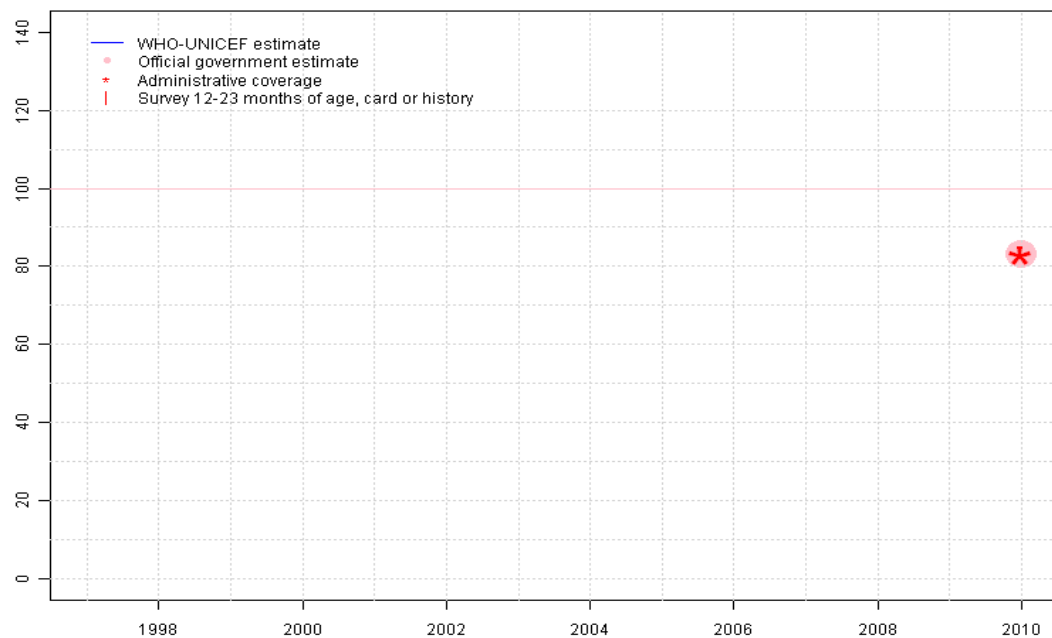
Description:

2010: Estimate based on reported data. DTP-HepB-Hib pentavalent vaccine was introduced in 2009. Reporting started in 2010.

	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	83
Official	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	83
Administrative	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	83
Survey	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Namibia - Hib3

NAM - Hib3

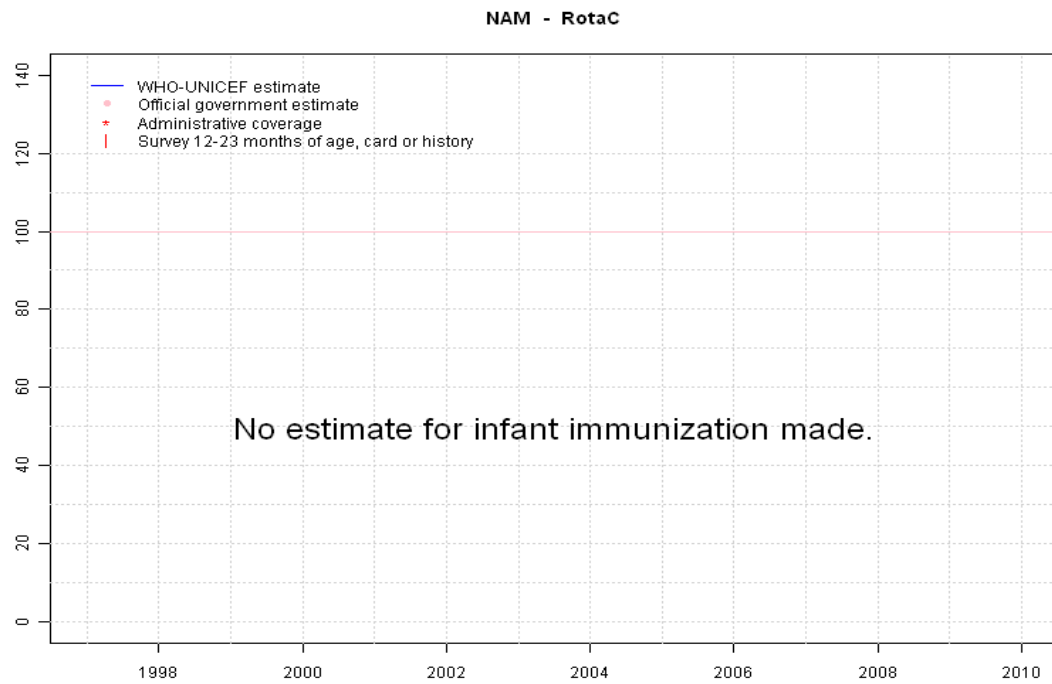


Description:

2010: Estimate based on reported data. DTP-HepB-Hib pentavalent vaccine was introduced in 2009. Reporting started in 2010.

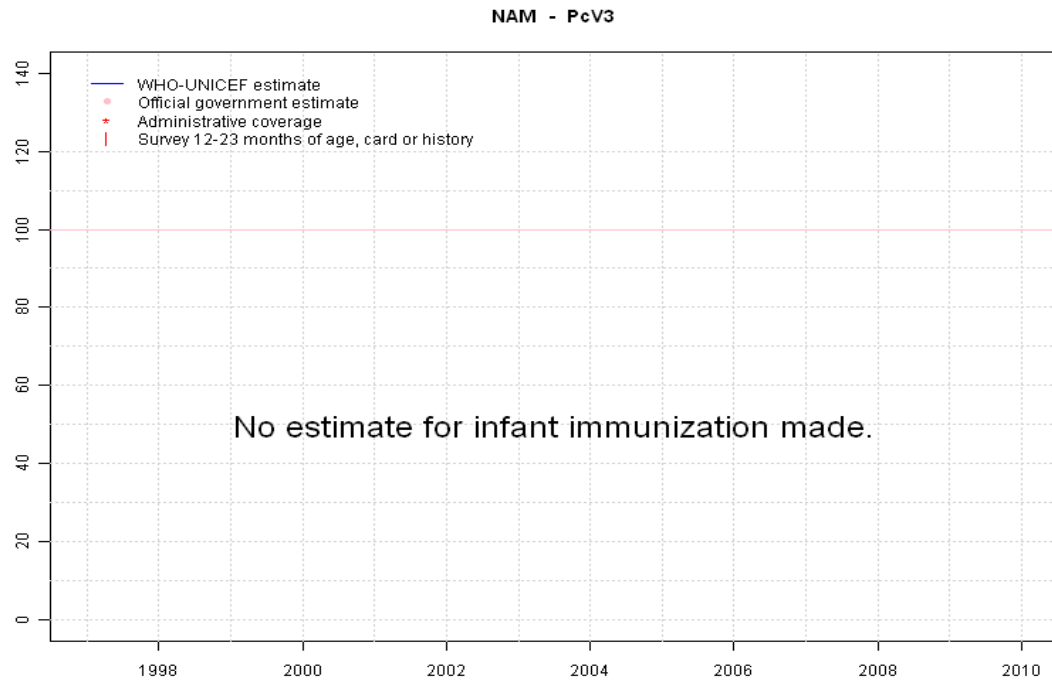
	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Estimate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	83
Official	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	83
Administrative	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	83
Survey	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Namibia - 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

Namibia - 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

Namibia - survey details

2005 Namibia Demographic and Health Survey 2006

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	History	22	12-23 m	987	73
BCG	C or H <12 months	95	12-23 m	987	73
BCG	Card	72	12-23 m	987	73
BCG	Card or History	95	12-23 m	987	73
DTP1	C or H <12 months	93	12-23 m	987	73
DTP1	Card	73	12-23 m	987	73
DTP1	Card or History	95	12-23 m	987	73
DTP1	History	22	12-23 m	987	73
DTP3	History	15	12-23 m	987	73
DTP3	C or H <12 months	81	12-23 m	987	73
DTP3	Card or History	83	12-23 m	987	73
DTP3	Card	68	12-23 m	987	73
MCV	C or H <12 months	78	12-23 m	987	73
MCV	Card	63	12-23 m	987	73
MCV	Card or History	84	12-23 m	987	73
MCV	History	21	12-23 m	987	73
Pol1	History	23	12-23 m	987	73
Pol1	C or H <12 months	94	12-23 m	987	73
Pol1	Card	73	12-23 m	987	73
Pol1	Card or History	95	12-23 m	987	73
Pol3	Card	68	12-23 m	987	73
Pol3	Card or History	79	12-23 m	987	73

Pol3	History	10	12-23 m	987	73
Pol3	C or H <12 months	76	12-23 m	987	73

1999 Namibia Demographic and Health Survey 2000

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	History	19	12-23 m	816	74
BCG	Card or History	90	12-23 m	816	74
DTP1	Card	72	12-23 m	816	74
DTP1	Card or History	92	12-23 m	816	74
DTP1	History	20	12-23 m	816	74
DTP3	Card	69	12-23 m	816	74
DTP3	Card or History	79	12-23 m	816	74
DTP3	History	10	12-23 m	816	74
MCV	History	16	12-23 m	816	74
MCV	Card or History	80	12-23 m	816	74
MCV	Card	64	12-23 m	816	74
Pol1	Card	73	12-23 m	816	74
Pol1	Card or History	94	12-23 m	816	74
Pol1	History	20	12-23 m	816	74
Pol3	Card	69	12-23 m	816	74
Pol3	Card or History	77	12-23 m	816	74
Pol3	History	8	12-23 m	816	74

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

Namibia

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	79
1998	77
1999	83
2000	74
2001	86
2002	80
2003	78
2004	79
2005	80
2006	81
2007	82
2008	82
2009	82
2010	83

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.