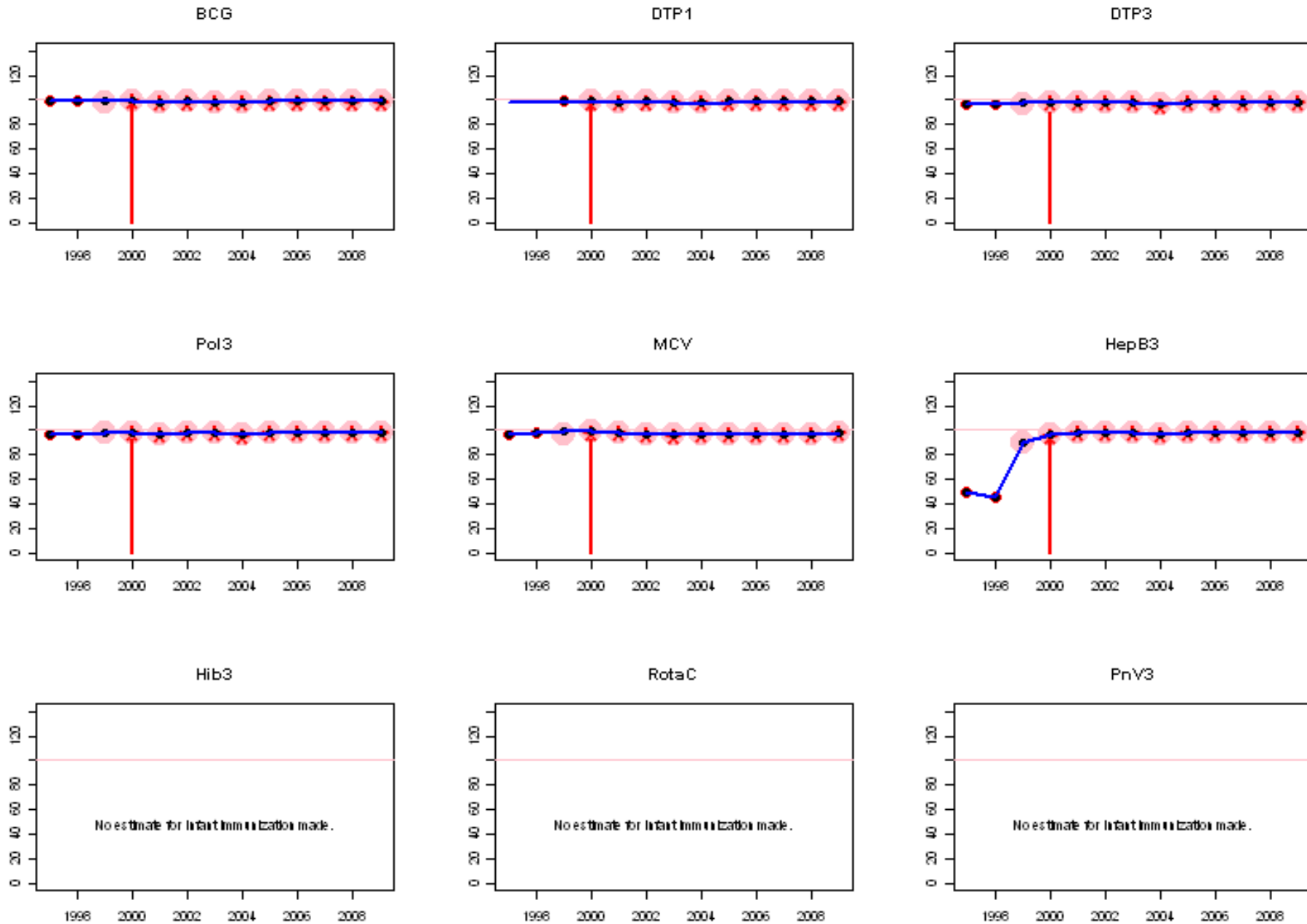
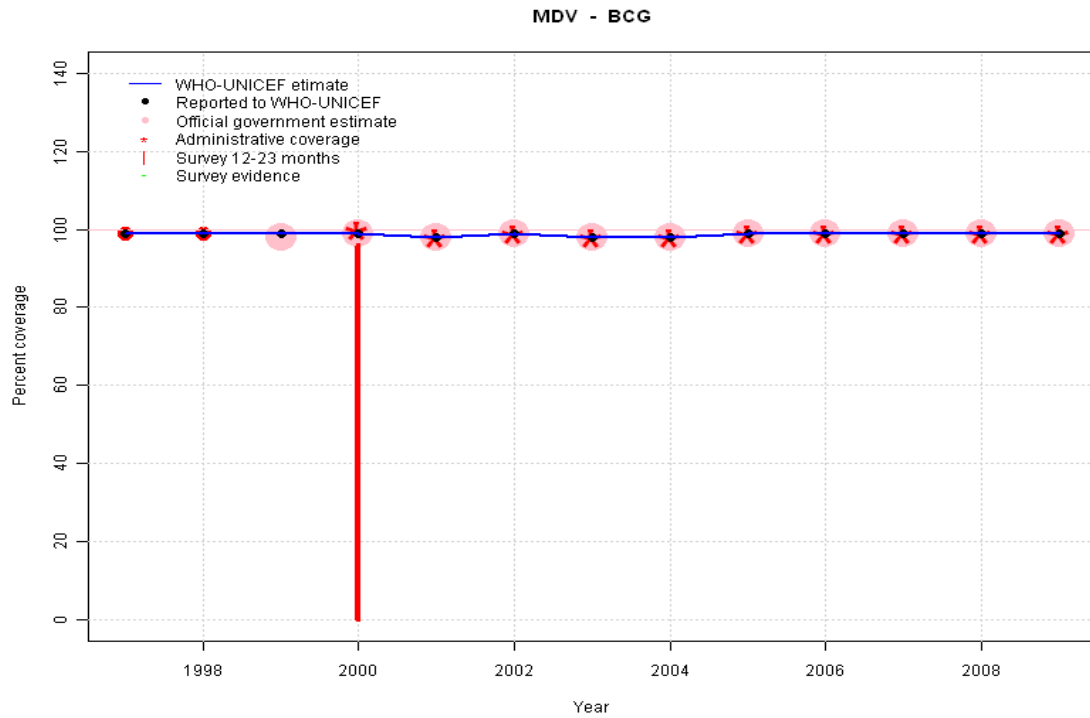


Maldives: WHO and UNICEF estimates of immunization coverage, 1997 - 2009



# Maldives - BCG

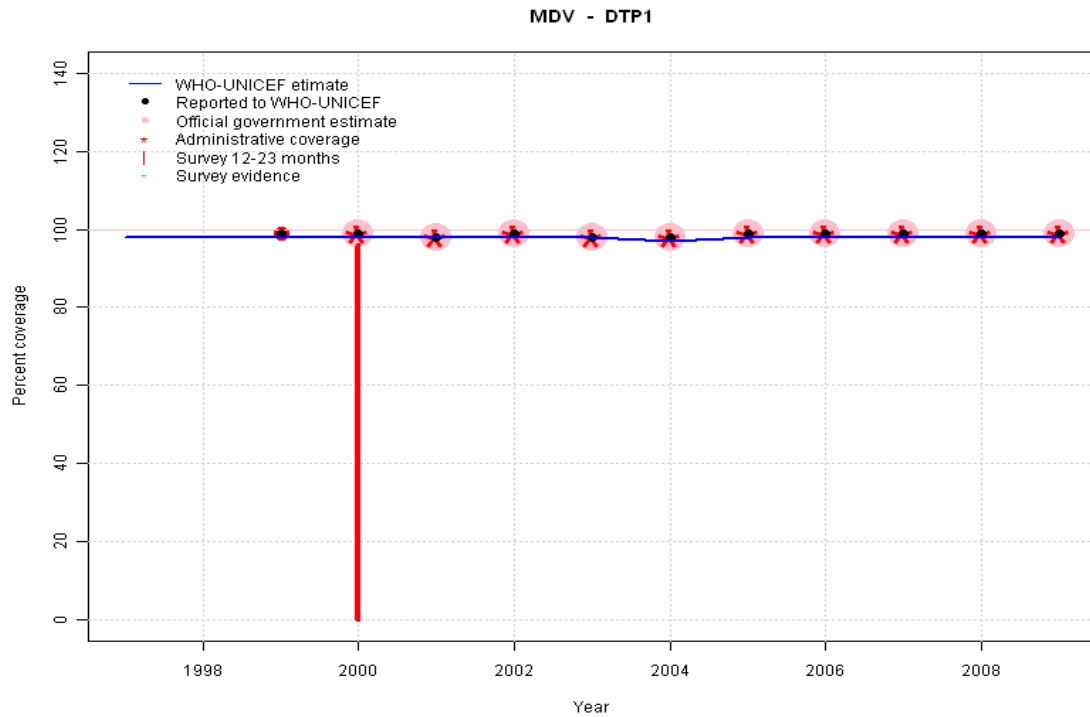
## Description:



- 1997: Legacy estimate.
- 1998: Estimate based on reported data.
- 1999: Estimate based on reported data.
- 2000: Estimate based on reported data. Survey results of 96 percent with sample size 158 ignored; sample size less than 300.
- 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: Estimate based on reported data.
- 2007: Estimate based on reported data.
- 2008: Estimate based on reported data.
- 2009: Estimate based on reported data.

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Estimate	99	99	99	99	98	99	98	98	99	99	99	99	99
Reported	99	99	99	99	98	99	98	98	99	99	99	99	99
Official	NA	NA	98	99	98	99	98	98	99	99	99	99	99
Administrative	NA	NA	NA	100	98	99	98	98	99	99	99	99	99
Survey	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

# Maldives - DTP1



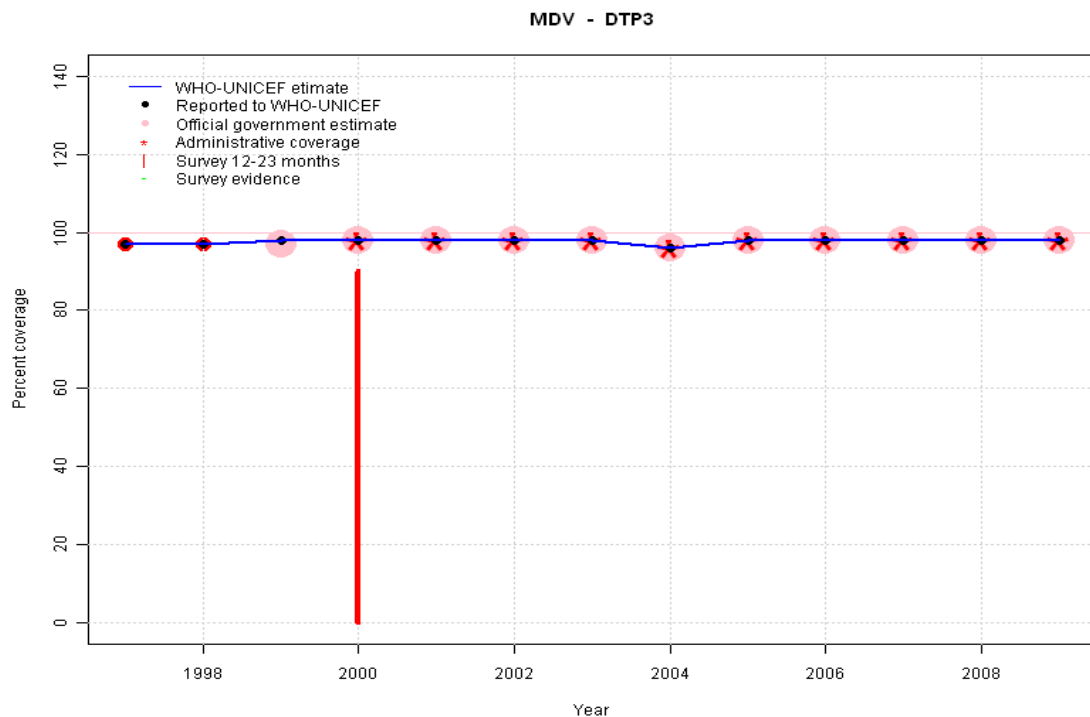
	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Estimate	98	98	98	98	98	98	98	97	98	98	98	98	98
Reported	NA	NA	99	99	98	99	98	98	99	99	99	99	99
Official	NA	NA	NA	99	98	99	98	98	99	99	99	99	99
Administrative	NA	NA	NA	99	98	99	98	98	99	99	99	99	99
Survey	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

## Description:

- 1997: Legacy estimate.
- 1998: Estimate calibrated to 1997 level (98 percent) and reported coverage (99 percent).
- 1999: Estimate calibrated to 1997 level (98 percent) and reported coverage (99 percent).
- 2000: Estimate calibrated to 1997 level (98 percent) and reported coverage (99 percent). Survey results of 96 percent with sample size 158 ignored; sample size less than 300.
- 2001: Estimated DTP3 greater than estimated DTP1; DTP1 estimate based on the relationship between DTP1 and DTP3 from 282 surveys.
- 2002: Estimate calibrated to 1997 level (98 percent) and reported coverage (99 percent).
- 2003: Estimated DTP3 greater than estimated DTP1; DTP1 estimate based on the relationship between DTP1 and DTP3 from 282 surveys.
- 2004: Estimate calibrated to 1997 level (98 percent) and reported coverage (98 percent).
- 2005: Estimate calibrated to 1997 level (98 percent) and reported coverage (99 percent).
- 2006: Estimate calibrated to 1997 level (98 percent) and reported coverage (99 percent).
- 2007: Estimate calibrated to 1997 level (98 percent) and reported coverage (99 percent).
- 2008: Estimate calibrated to 1997 level (98 percent) and reported coverage (99 percent).
- 2009: Estimate calibrated to 1997 level (98 percent) and reported coverage (99 percent).

# Maldives - DTP3

## Description:

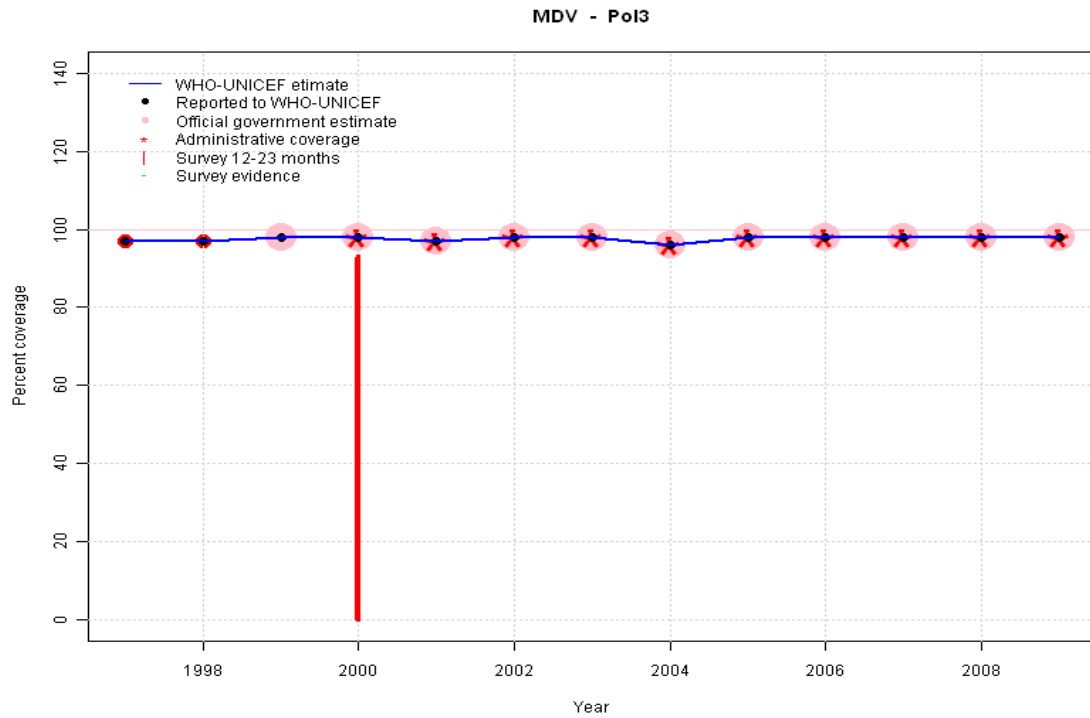


- 1997: Legacy estimate.
- 1998: Estimate based on reported data.
- 1999: Estimate based on reported data.
- 2000: Estimate based on reported data. Survey results of 90 percent with sample size 158 ignored; sample size less than 300.
- 2001: Estimate based on reported data.
- 2002: Estimate based on reported data.
- 2003: Estimate based on reported data.
- 2004: Estimate based on reported data.
- 2005: Estimate based on reported data.
- 2006: Estimate based on reported data.
- 2007: Estimate based on reported data.
- 2008: Estimate based on reported data.
- 2009: Estimate based on reported data.

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Estimate	97	97	98	98	98	98	98	96	98	98	98	98	98
Reported	97	97	98	98	98	98	98	96	98	98	98	98	98
Official	NA	NA	97	98	98	98	98	96	98	98	98	98	98
Administrative	NA	NA	NA	98	98	98	98	96	98	98	98	98	98
Survey	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

# Maldives - Pol3

## Description:

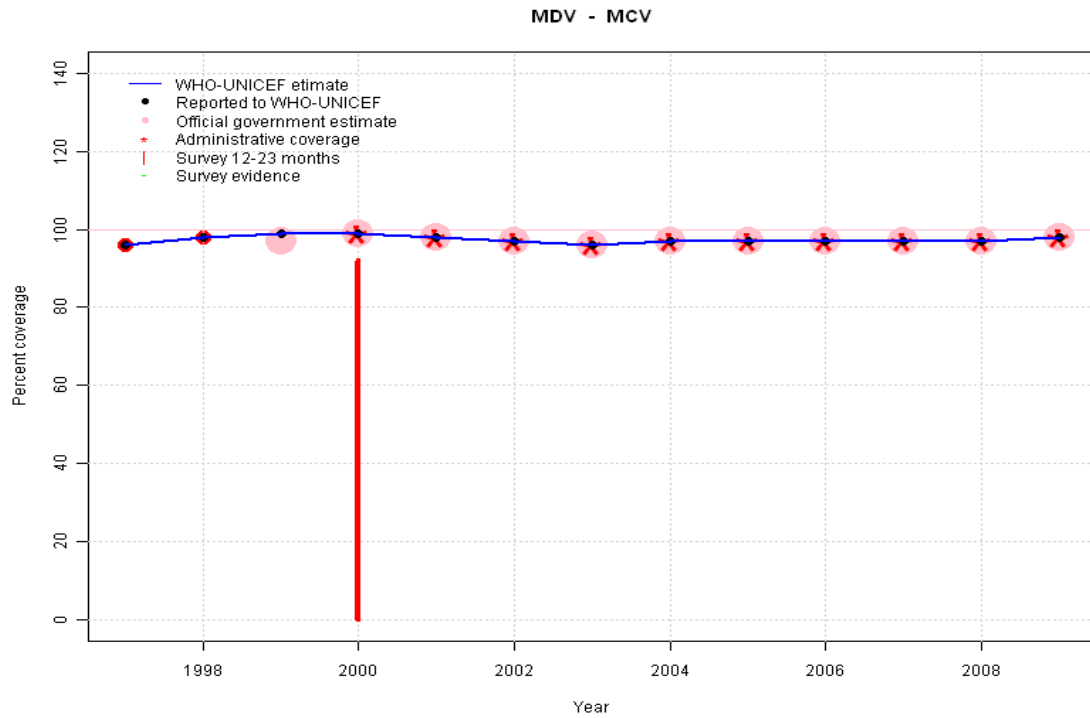


- 1997: Legacy estimate.
- 1998: Estimate based on reported data.
- 1999: Estimate based on reported data.
- 2000: Estimate based on reported data. Survey results of 93 percent with sample size 158 ignored; sample size less than 300.
- 2001: Estimate based on reported data.
- 2002: Estimate based on reported data.
- 2003: Estimate based on reported data.
- 2004: Estimate based on reported data.
- 2005: Estimate based on reported data.
- 2006: Estimate based on reported data.
- 2007: Estimate based on reported data.
- 2008: Estimate based on reported data.
- 2009: Estimate based on reported data.

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Estimate	97	97	98	98	97	98	98	96	98	98	98	98	98
Reported	97	97	98	98	97	98	98	96	98	98	98	98	98
Official	NA	NA	98	98	97	98	98	96	98	98	98	98	98
Administrative	NA	NA	NA	98	97	98	98	96	98	98	98	98	98
Survey	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

# Maldives - MCV

## Description:

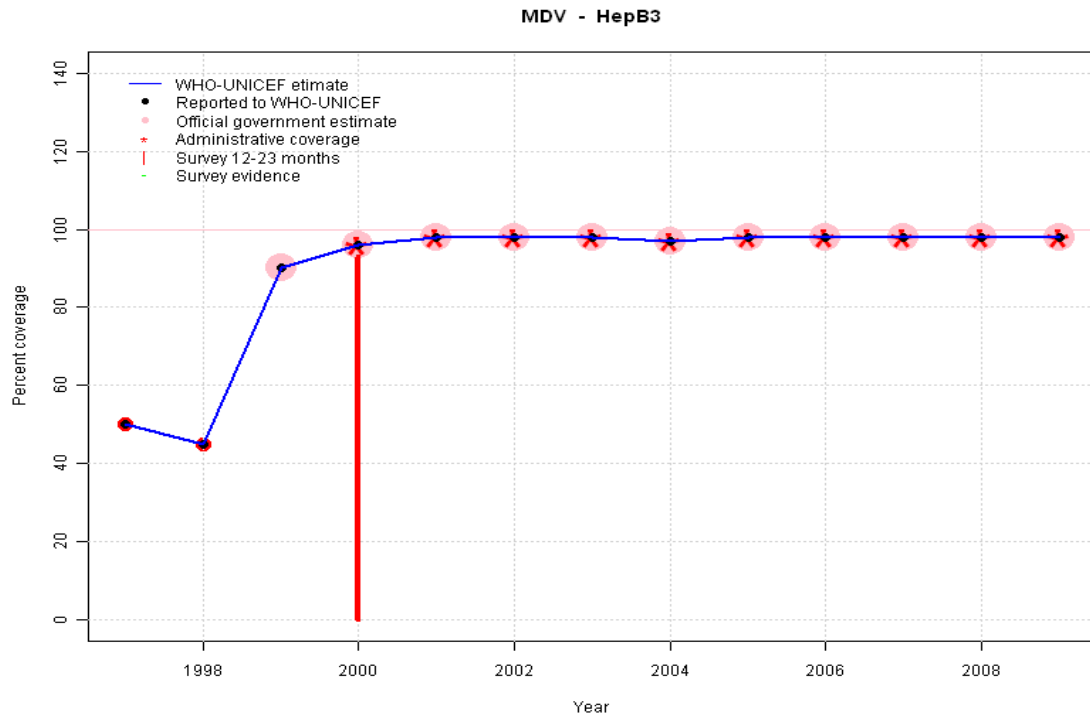


- 1997: Legacy estimate.
- 1998: Estimate based on reported data.
- 1999: Estimate based on reported data.
- 2000: Estimate based on reported data. Survey results of 92 percent with sample size 158 ignored; sample size less than 300.
- 2001: Estimate based on reported data.
- 2002: Estimate based on reported data.
- 2003: Estimate based on reported data.
- 2004: Estimate based on reported data.
- 2005: Estimate based on reported data.
- 2006: Estimate based on reported data.
- 2007: Estimate based on reported data.
- 2008: Estimate based on reported data.
- 2009: Estimate based on reported data.

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Estimate	96	98	99	99	98	97	96	97	97	97	97	97	98
Reported	96	98	99	99	98	97	96	97	97	97	97	97	98
Official	NA	NA	97	99	98	97	96	97	97	97	97	97	98
Administrative	NA	NA	NA	99	98	97	96	97	97	97	97	97	98
Survey	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

# Maldives - HepB3

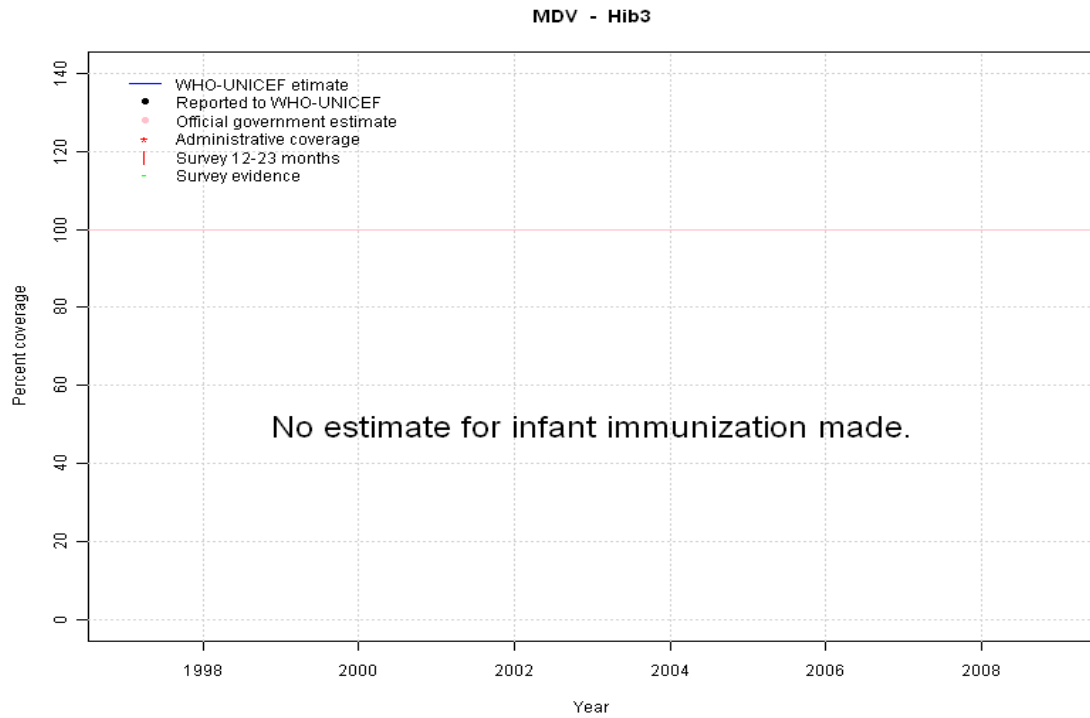
## Description:



- 1997: Legacy estimate.
- 1998: Estimate based on reported data.
- 1999: Estimate based on reported data.
- 2000: Estimate based on reported data. Survey results of 93 percent with sample size 158 ignored; sample size less than 300.
- 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: Estimate based on reported data.
- 2007: Estimate based on reported data.
- 2008: Estimate based on reported data.
- 2009: Estimate based on reported data.

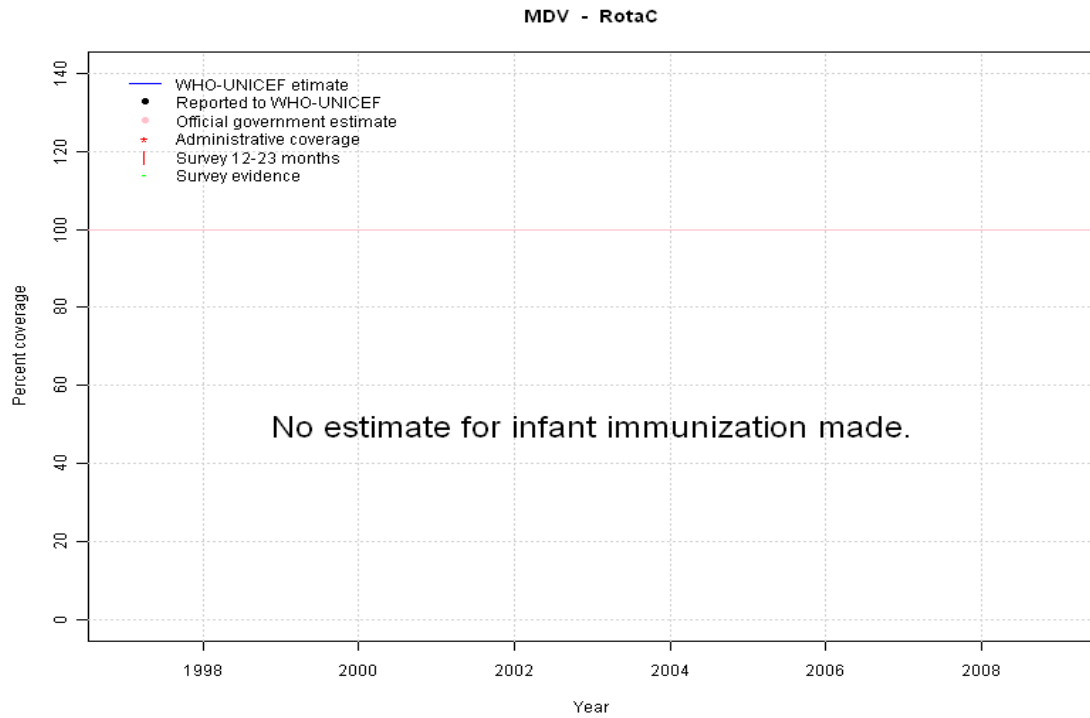
	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Estimate	50	45	90	96	98	98	98	97	98	98	98	98	98
Reported	50	45	90	96	98	98	98	97	98	98	98	98	98
Official	NA	NA	90	96	98	98	98	97	98	98	98	98	98
Administrative	NA	NA	NA	96	98	98	98	97	98	98	98	98	98
Survey	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

# Maldives - Hib3



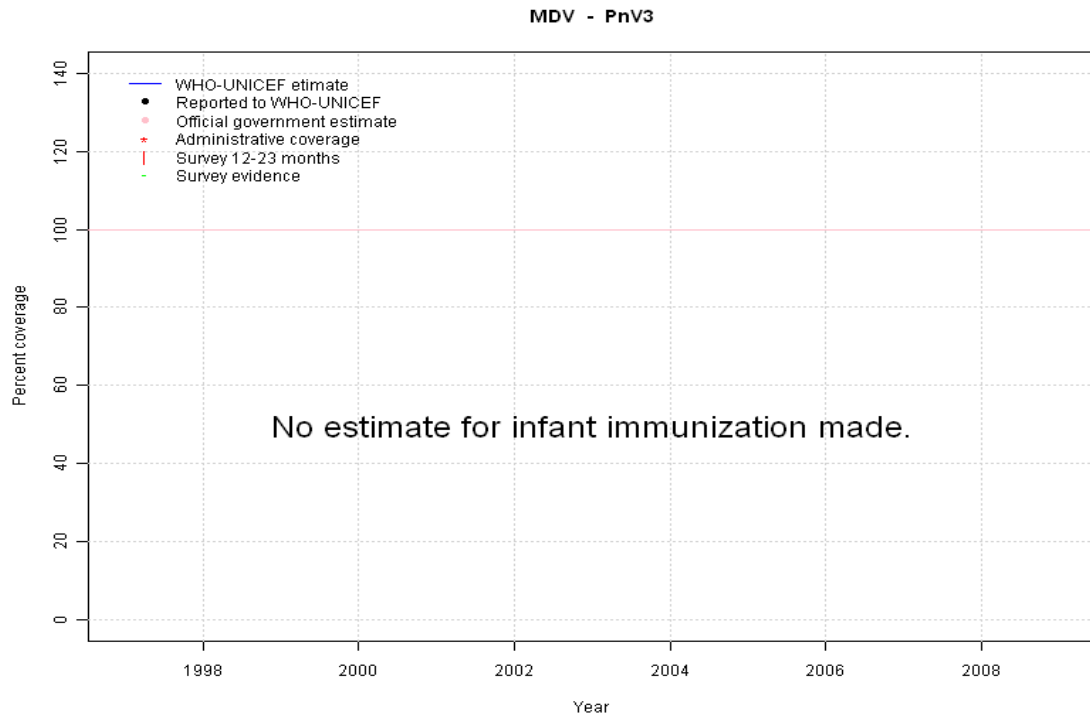
	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Estimate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Reported	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Official	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Administrative	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Survey	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA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

# Maldives - RotaC



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

# Maldives - PnV3



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

# Maldives - survey details

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## 2000 Maldives Multiple Indicator Cluster Survey 2001

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	Card or History	96	12-23 m	158	0
DTP1	Card or History	96	12-23 m	158	0
DTP3	Card or History	90	12-23 m	158	0

HepB1	Card or History	95	12-23 m	158	0
HepB3	Card or History	93	12-23 m	158	0
MCV	Card or History	92	12-23 m	158	0
Pol1	Card or History	95	12-23 m	158	0
Pol3	Card or History	93	12-23 m	158	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)

## Maldives

### 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	93
1998	91
1999	93
2000	95
2001	95
2002	94
2003	94
2004	94
2005	94
2006	94
2007	94
2008	95
2009	95

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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.