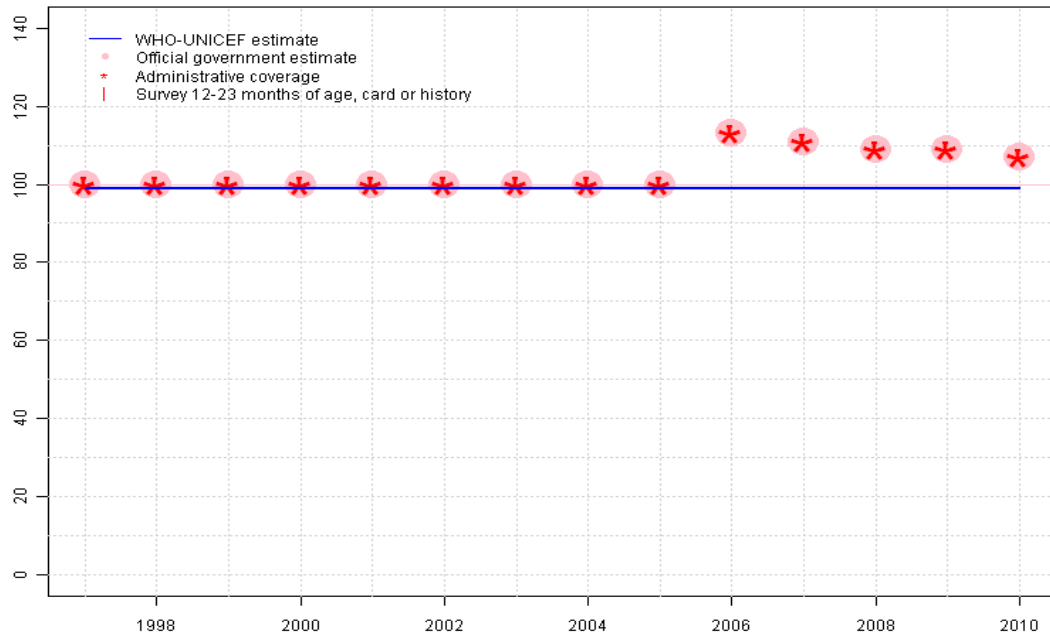


Brazil - BCG

BRA - BCG



Description:

1997: Legacy estimate.

1998: Reported data 100 percent calibrated to 1997 levels.

1999: Reported data 100 percent calibrated to 1997 levels.

2000: Reported data 100 percent calibrated to 1997 levels.

2001: Reported data 100 percent calibrated to 1997 levels.

2002: Reported data 100 percent calibrated to 1997 levels.

2003: Reported data 100 percent calibrated to 1997 levels.

2004: Reported data 100 percent calibrated to 1997 levels.

2005: Reported data 100 percent calibrated to 1997 levels.

2006: Estimate based on extrapolation from 2005 value of 99 percent. Reported data of 113 percent greater than 100 percent.

2007: Estimate based on extrapolation from 2005 value of 99 percent. Reported data of 111 percent greater than 100 percent.

2008: Estimate based on extrapolation from 2005 value of 99 percent. Reported data of 109 percent greater than 100 percent.

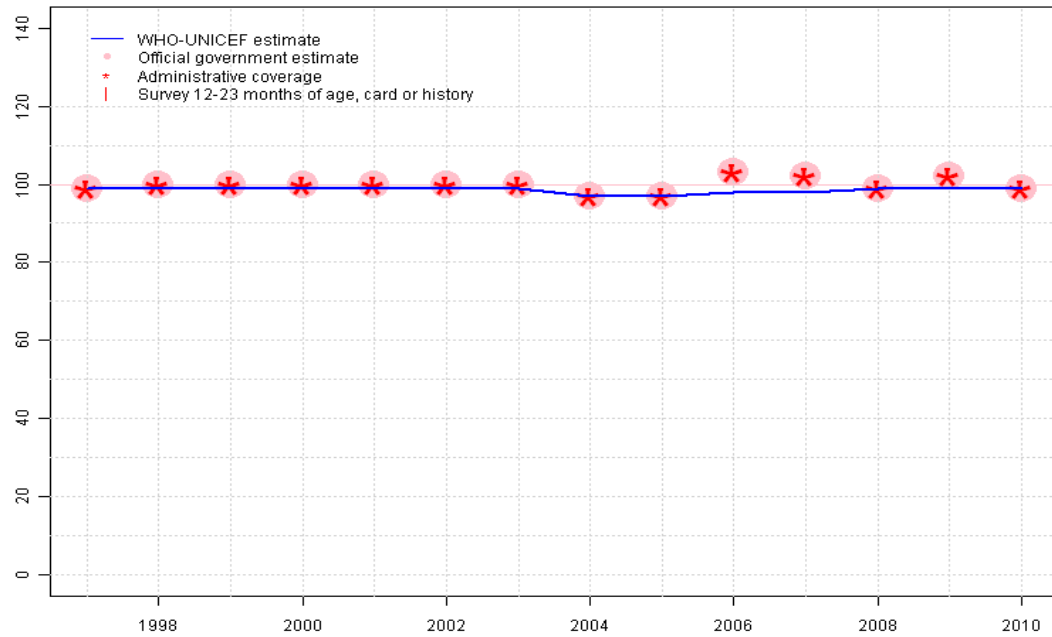
2009: Estimate based on extrapolation from 2005 value of 99 percent. Reported data of 109 percent greater than 100 percent.

2010: Estimate based on extrapolation from 2005 value of 99 percent. Reported data of 107 percent greater than 100 percent.

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Estimate	99	99	99	99	99	99	99	99	99	99	99	99	99	99
Official	100	100	100	100	100	100	100	100	100	113	111	109	109	107
Administrative	100	100	100	100	100	100	100	100	100	113	111	109	109	107
Survey	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Brazil - DTP1

BRA - DTP1



	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Estimate	99	99	99	99	99	99	99	97	97	98	98	99	99	99
Official	99	100	100	100	100	100	100	97	97	103	102	99	102	99
Administrative	99	100	100	100	100	100	100	97	97	103	102	99	102	99
Survey	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Description:

1997: Legacy estimate.

1998: Estimate based on reported data.

1999: Estimate based on reported data.

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: Estimate based on reported data.

2006: Estimate based on interpolation between 2005 and 2008. Reported data of 103 percent greater than 100 percent. Current estimate of 98 percent changed from previous revision value of 99 percent.

2007: Estimate based on interpolation between 2005 and 2008. Reported data of 102 percent greater than 100 percent. Current estimate of 98 percent changed from previous revision value of 99 percent.

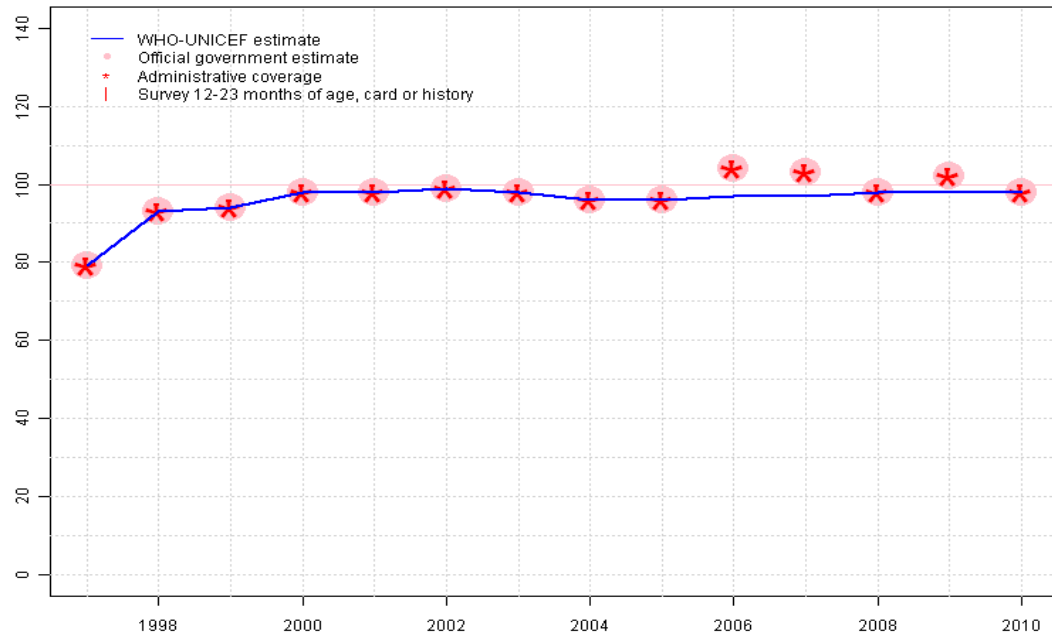
2008: Estimate based on reported data.

2009: Estimate based on interpolation between 2008 and 2010. Reported data of 102 percent greater than 100 percent.

2010: Estimate based on reported data.

Brazil - DTP3

BRA - DTP3



Description:

1997: Legacy estimate.

1998: Estimate based on reported data.

1999: Estimate based on reported data.

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: Estimate based on reported data.

2006: Estimate based on interpolation between 2005 and 2008. Reported data of 104 percent greater than 100 percent. Current estimate of 97 percent changed from previous revision value of 99 percent.

2007: Estimate based on interpolation between 2005 and 2008. Reported data of 103 percent greater than 100 percent. Current estimate of 97 percent changed from previous revision value of 99 percent.

2008: Estimate based on reported data.

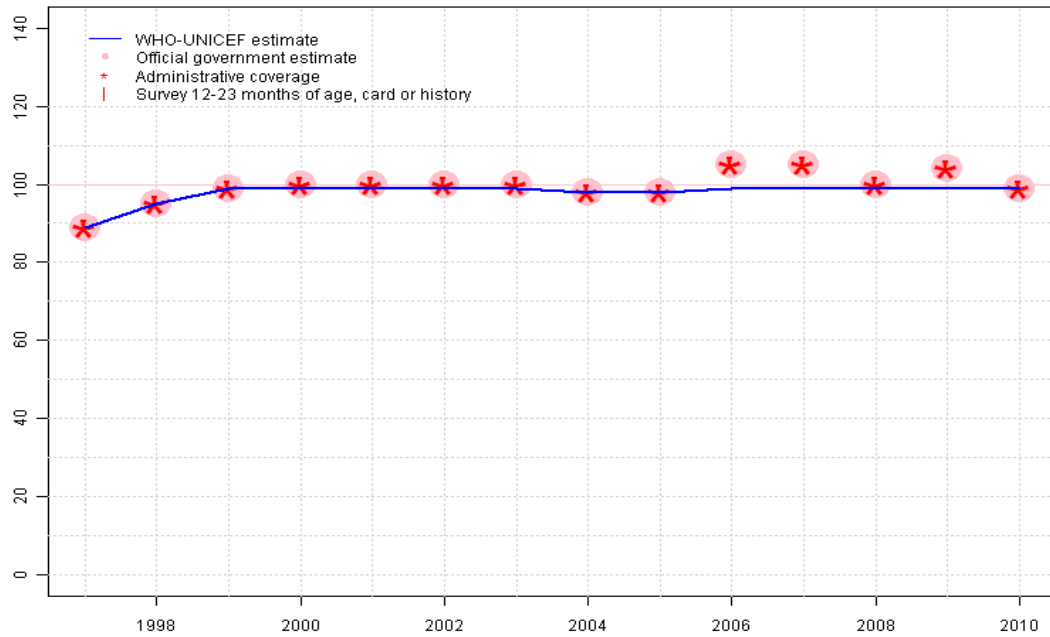
2009: Estimate based on interpolation between 2008 and 2010. Reported data of 102 percent greater than 100 percent. Current estimate of 98 percent changed from previous revision value of 99 percent.

2010: Estimate based on reported data.

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Estimate	79	93	94	98	98	99	98	96	96	97	97	98	98	98
Official	79	93	94	98	98	99	98	96	96	104	103	98	102	98
Administrative	79	93	94	98	98	99	98	96	96	104	103	98	102	98
Survey	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Brazil - Pol3

BRA - Pol3



Description:

1997: Legacy estimate.

1998: Estimate based on reported data.

1999: Estimate based on reported data.

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: Estimate based on reported data.

2006: Estimate based on interpolation between 2005 and 2008. Reported data of 105 percent greater than 100 percent.

2007: Estimate based on interpolation between 2005 and 2008. Reported data of 105 percent greater than 100 percent.

2008: Estimate based on reported data.

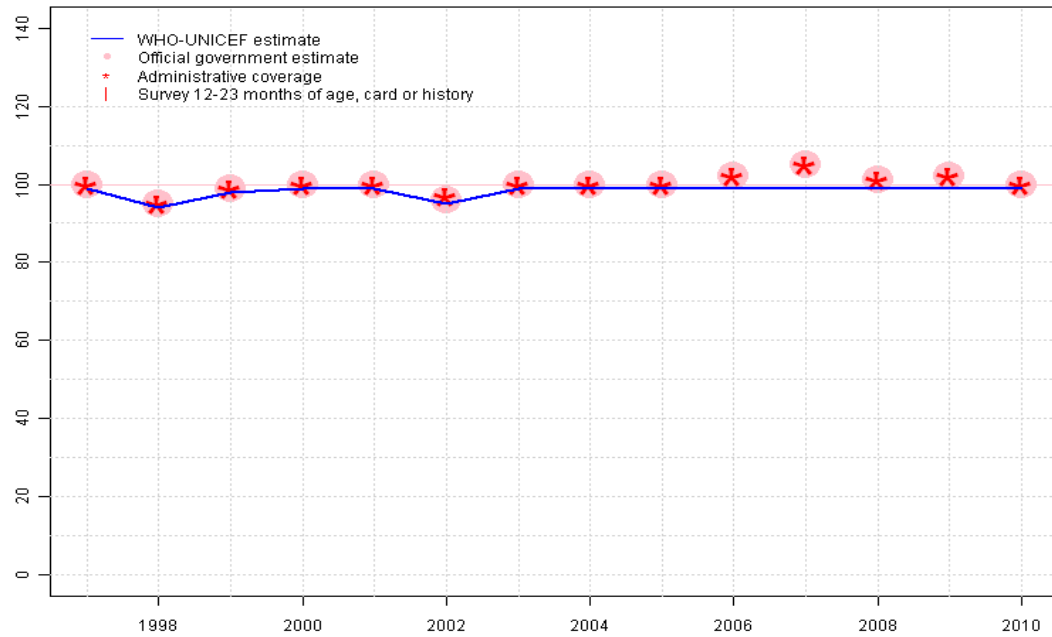
2009: Estimate based on interpolation between 2008 and 2010. Reported data of 104 percent greater than 100 percent.

2010: Estimate based on reported data.

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Estimate	89	95	99	99	99	99	99	98	98	99	99	99	99	99
Official	89	95	99	100	100	100	100	98	98	105	105	100	104	99
Administrative	89	95	99	100	100	100	100	98	98	105	105	100	104	99
Survey	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Brazil - MCV

BRA - MCV



	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Estimate	99	94	98	99	99	95	99	99	99	99	99	99	99	99
Official	100	95	99	100	100	96	100	100	100	102	105	101	102	100
Administrative	100	95	99	100	100	97	100	100	100	102	105	101	102	100
Survey	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Description:

1997: Legacy estimate.

1998: Reported data 95 percent calibrated to 1997 levels. Current estimate of 94 percent changed from previous revision value of 95 percent.

1999: Reported data 99 percent calibrated to 1997 levels. Current estimate of 98 percent changed from previous revision value of 99 percent.

2000: Reported data 100 percent calibrated to 1997 levels.

2001: Reported data 100 percent calibrated to 1997 levels.

2002: Reported data 96 percent calibrated to 1997 levels. Current estimate of 95 percent changed from previous revision value of 96 percent.

2003: Reported data 100 percent calibrated to 1997 levels.

2004: Reported data 100 percent calibrated to 1997 levels.

2005: Reported data 100 percent calibrated to 1997 levels.

2006: Estimate based on interpolation between 2005 and 2010. Reported data of 102 percent greater than 100 percent.

2007: Estimate based on interpolation between 2005 and 2010. Reported data of 105 percent greater than 100 percent.

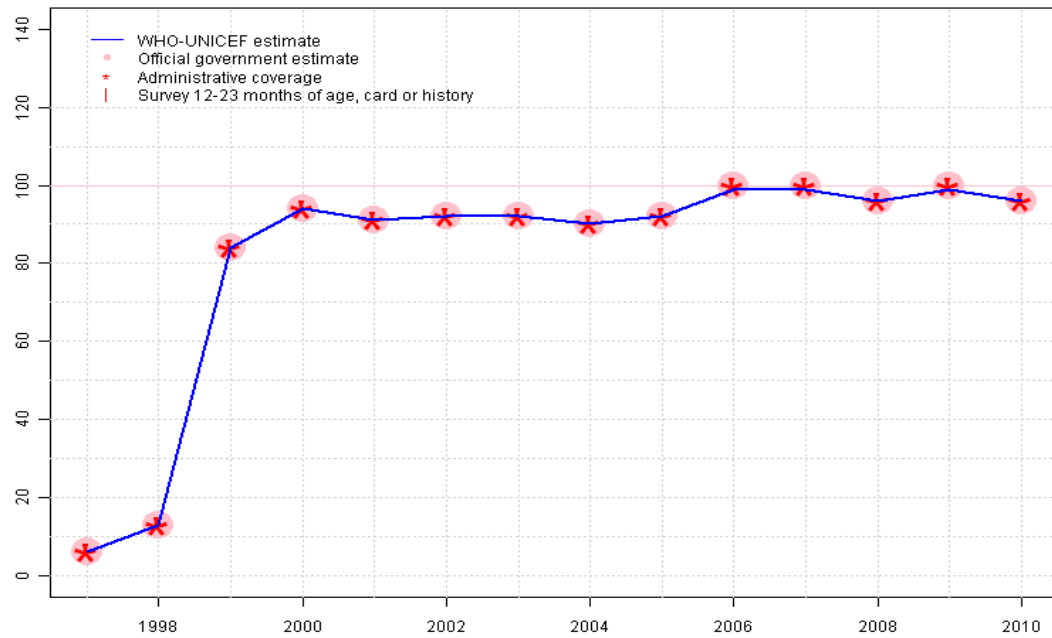
2008: Estimate based on interpolation between 2005 and 2010. Reported data of 101 percent greater than 100 percent.

2009: Estimate based on interpolation between 2005 and 2010. Reported data of 102 percent greater than 100 percent.

2010: Reported data 100 percent calibrated to 1997 levels.

Brazil - HepB3

BRA - HepB3



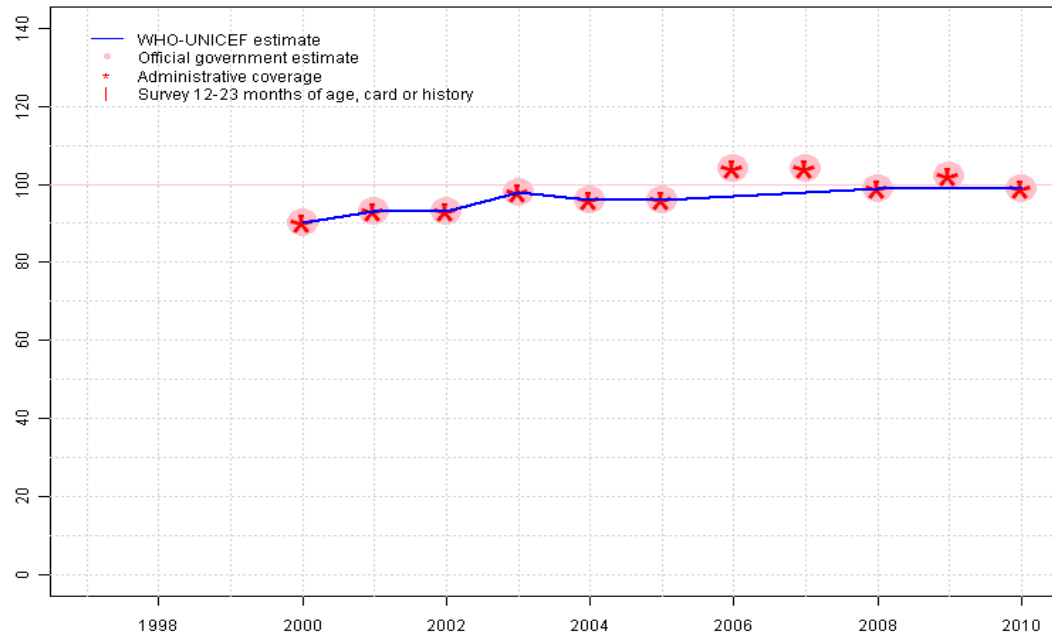
Description:

- 1997: Legacy estimate.
- 1998: Estimate based on reported data.
- 1999: Estimate based on reported data.
- 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: 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. Current estimate of 99 percent changed from previous revision value of 98 percent.
- 2010: Estimate based on reported data.

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Estimate	6	13	84	94	91	92	92	90	92	99	99	96	99	96
Official	6	13	84	94	91	92	92	90	92	100	100	96	100	96
Administrative	6	13	84	94	91	92	92	90	92	100	100	96	100	96
Survey	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Brazil - Hib3

BRA - Hib3



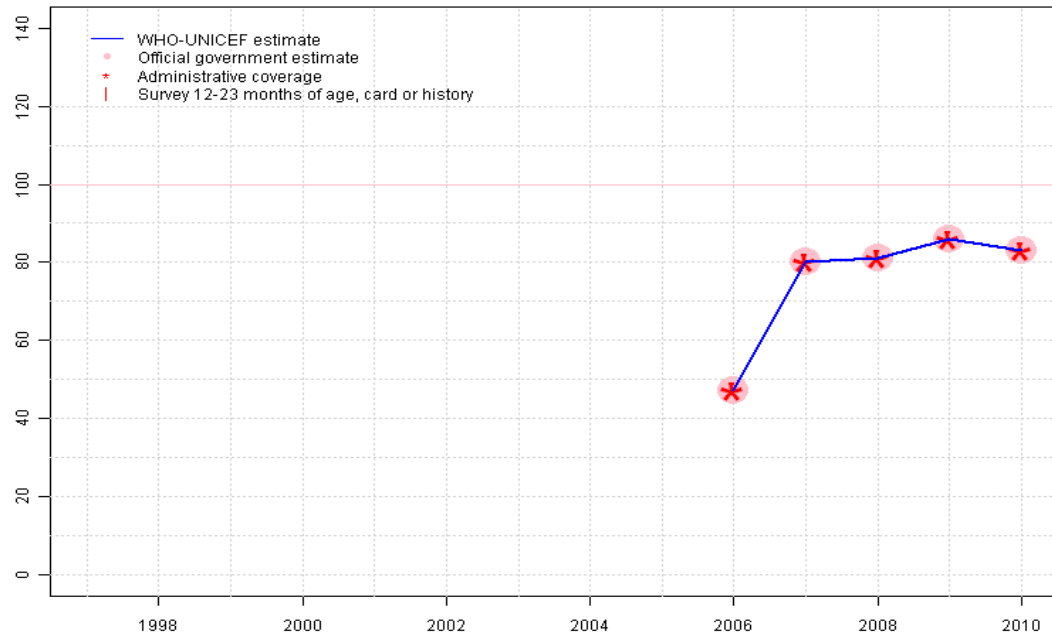
Description:

- 2000: Estimate based on reported data. Hib introduced in 1999. Reporting started in 2000. Vaccine presentation is DTB-Hib.
- 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 interpolation between 2005 and 2008. Reported data of 104 percent greater than 100 percent. Current estimate of 97 percent changed from previous revision value of 99 percent.
- 2007: Estimate based on interpolation between 2005 and 2008. Reported data of 104 percent greater than 100 percent. Current estimate of 98 percent changed from previous revision value of 99 percent.
- 2008: Estimate based on reported data. Current estimate of 99 percent changed from previous revision value of 98 percent.
- 2009: Estimate based on interpolation between 2008 and 2010. Reported data of 102 percent greater than 100 percent.
- 2010: Estimate based on reported data.

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Estimate	NA	NA	NA	90	93	93	98	96	96	97	98	99	99	99
Official	NA	NA	NA	90	93	93	98	96	96	104	104	99	102	99
Administrative	NA	NA	NA	90	93	93	98	96	96	104	104	99	102	99
Survey	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Brazil - RotaC

BRA - RotaC



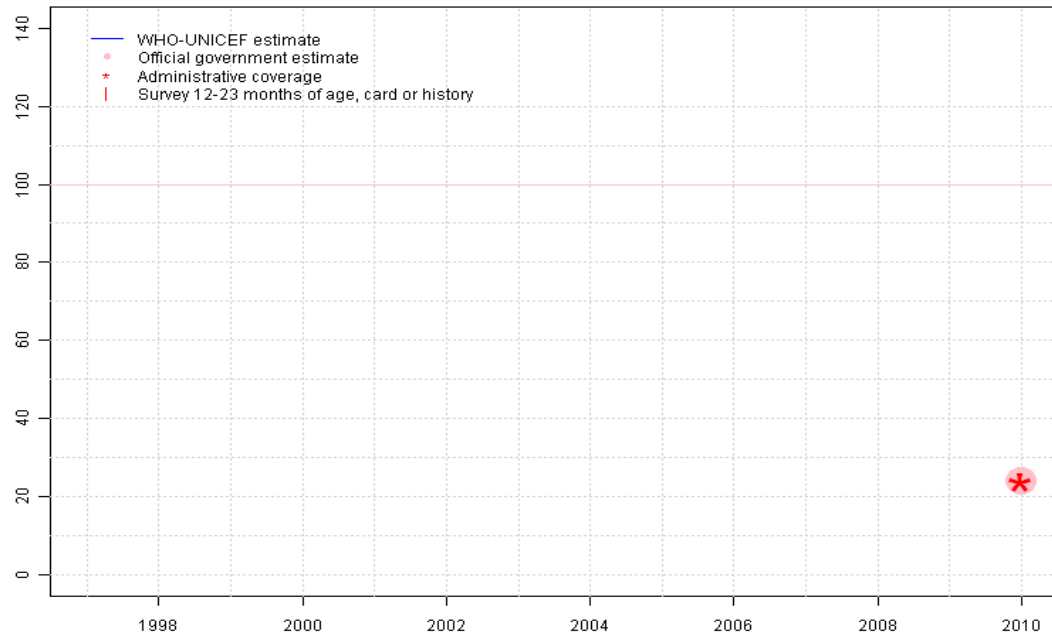
Description:

- 2006: Estimate based on reported data. Rota introduced in 2006.
- 2007: Estimate based on reported data.
- 2008: Estimate based on reported data.
- 2009: Estimate based on reported data. Current estimate of 86 percent changed from previous revision value of 84 percent.
- 2010: Estimate based on reported data.

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Estimate	NA	NA	NA	NA	NA	NA	NA	NA	NA	47	80	81	86	83
Official	NA	NA	NA	NA	NA	NA	NA	NA	NA	47	80	81	86	83
Administrative	NA	NA	NA	NA	NA	NA	NA	NA	NA	47	80	81	86	83
Survey	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Brazil - PcV3

BRA - PcV3



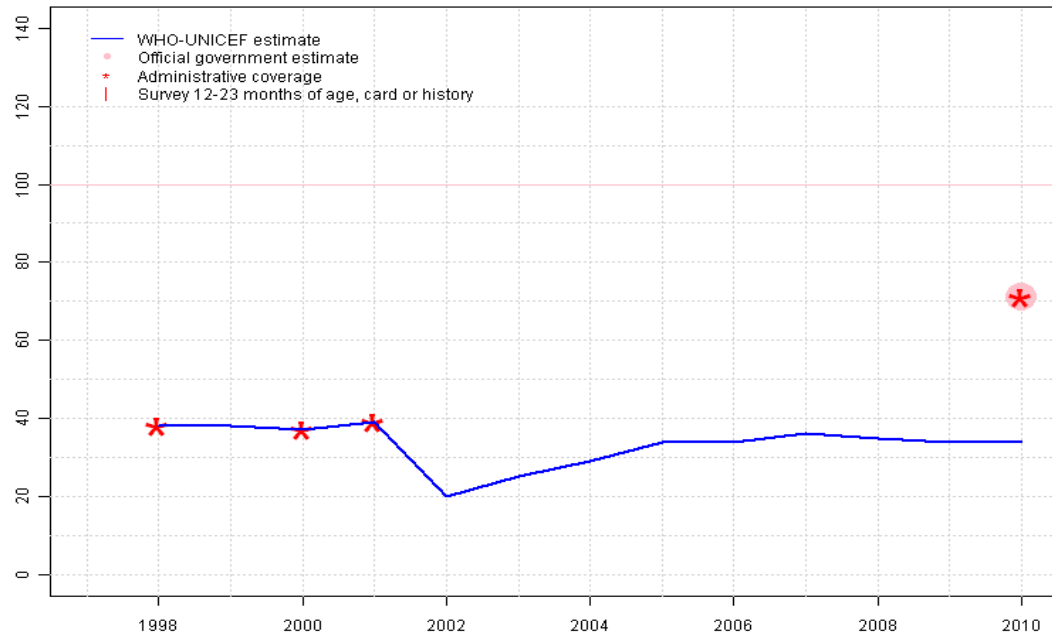
Description:

2010: Estimate based on reported data.

	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	24
Official	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	24
Administrative	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	24
Survey	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Brazil - YFV

BRA - YFV



	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Estimate	NA	38	38	37	39	20	25	29	34	34	36	35	34	34
Official	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	71
Administrative	NA	38	NA	37	39	NA	NA	NA	NA	NA	NA	NA	NA	71
Survey	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Description:

- 1998: Estimate based on nationally reported data. YFV partially introduced in 1991 nationally in 1999 reporting started in 1998
- 1999: Estimate based on interpolation between 1998 and 2000.
- 2000: Estimate based on nationally reported data.
- 2001: Estimate based on nationally reported data.
- 2002: Twenty percent of surviving infants living in yellow fever endemic areas. Ninety-eight percent coverage achieved in these areas. No other areas were targeted.
- 2003: Estimate based on interpolation between 2002 and 2005.
- 2004: Estimate based on interpolation between 2002 and 2005.
- 2005: Twenty-seven percent of surviving infants living in yellow fever endemic areas. Ninety-two percent coverage achieved in these areas. No other areas were targeted.
- 2006: Thirty-five percent of surviving infants living in yellow fever endemic areas. Ninety-nine percent coverage achieved in these areas. No other areas were targeted.
- 2007: Thirty-five percent of surviving infants living in yellow fever endemic areas. One hundred and one percent coverage achieved in these areas. No other areas were targeted.
- 2008: Thirty-five percent of surviving infants living in yellow fever endemic areas. Ninety-eight percent coverage achieved in these areas. No other areas were targeted.
- 2009: Thirty-eight percent of surviving infants living in yellow fever endemic areas. Eighty-nine percent coverage achieved in these areas. No other areas were targeted.
- 2010: Thirty-eight percent of surviving infants assumed to be living in yellow fever endemic areas based on 2009 information. No other areas were targeted.

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

Brazil

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	83
1998	86
1999	89
2000	92
2001	92
2002	65
2003	76
2004	78
2005	67
2006	92
2007	92
2008	92
2009	92
2010	92

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.