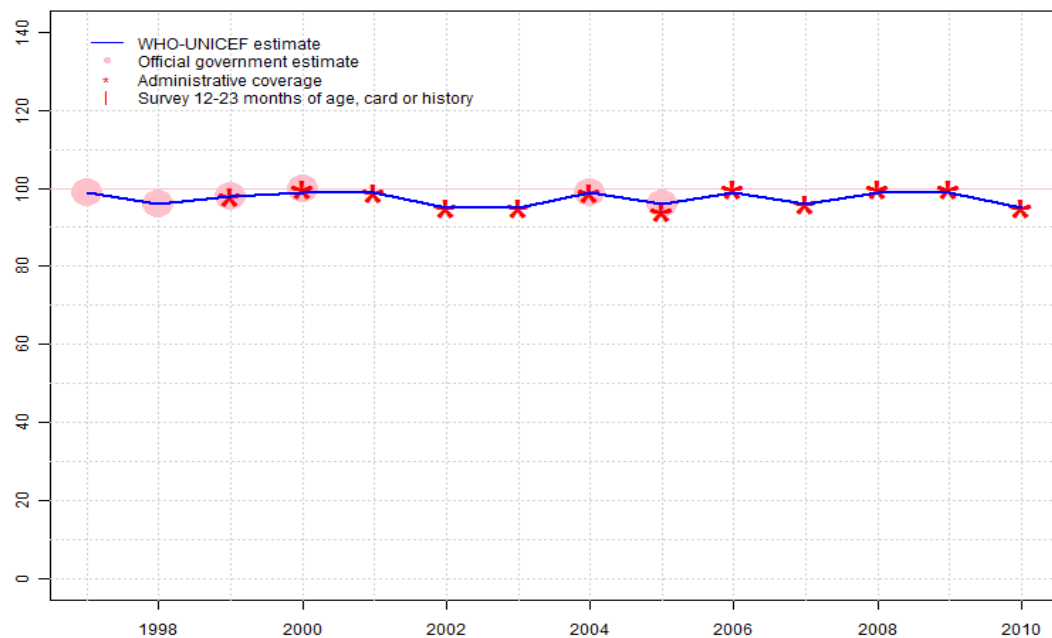


# Brunei Darussalam - BCG

BRN - BCG



## 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. Current estimate of 95 percent changed from previous revision value of 99 percent.

2003: Estimate based on reported data. Current estimate of 95 percent changed from previous revision value of 99 percent.

2004: Estimate based on reported data.

2005: Estimate based on reported data.

2006: Estimate based on reported data. Current estimate of 99 percent changed from previous revision value of 97 percent.

2007: Estimate based on reported data. Current estimate of 96 percent changed from previous revision value of 98 percent.

2008: Estimate based on reported data.

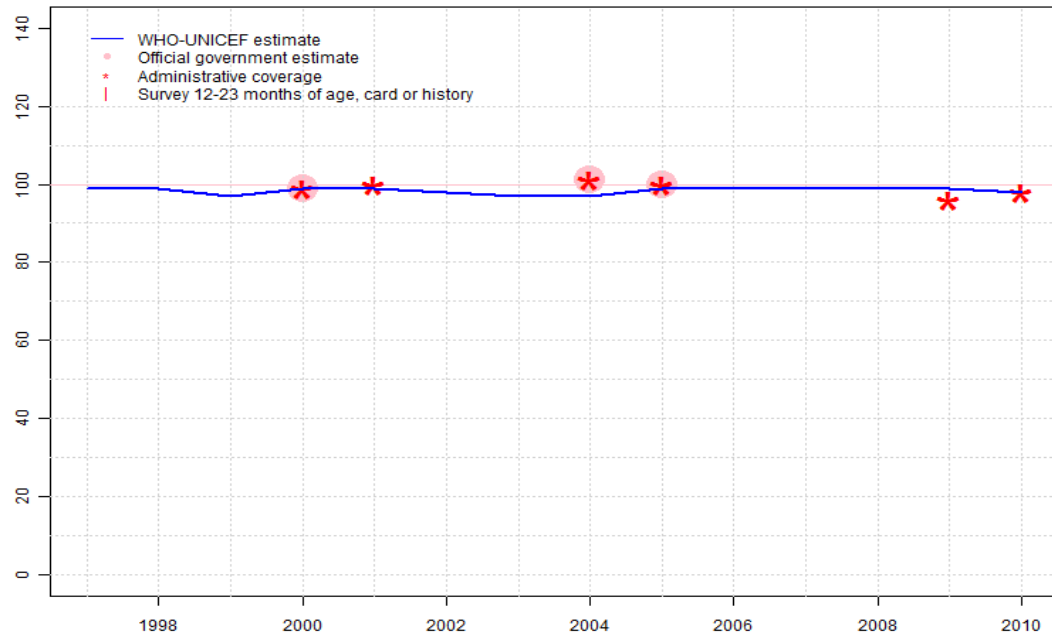
2009: Estimate based on reported data.

2010: Estimate based on reported data.

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

# Brunei Darussalam - DTP1

BRN - DTP1



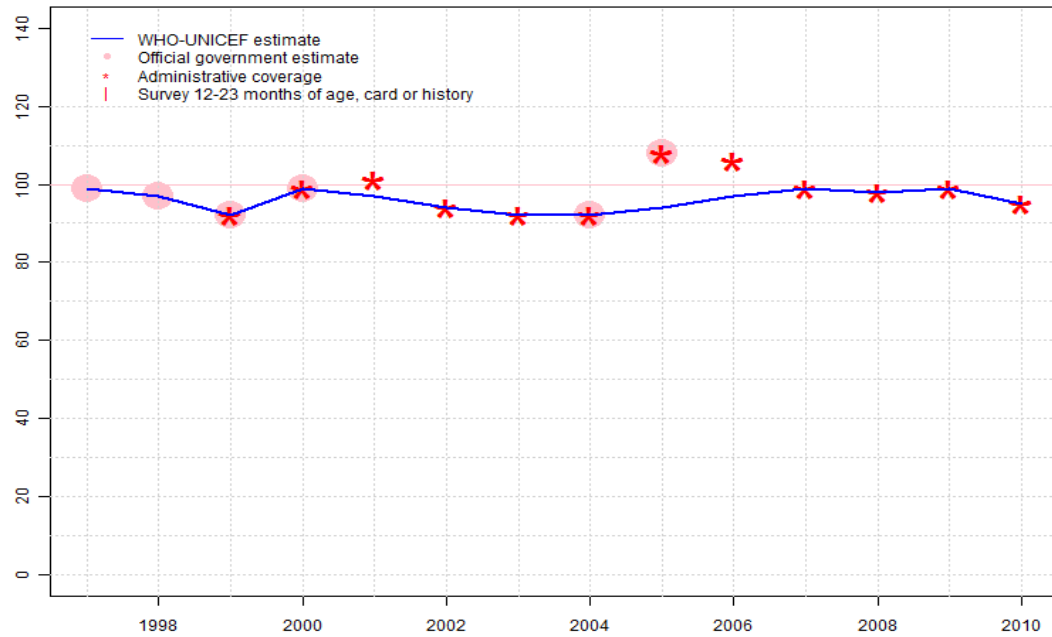
## Description:

- 1997: Legacy estimate.
- 1998: No DTP1 data. Estimate based on DTP3 coverage of 97.
- 1999: No DTP1 data. Estimate based on DTP3 coverage of 92. Current estimate of 97 percent changed from previous revision value of 99 percent.
- 2000: Estimate based on reported data.
- 2001: Estimate based on reported data.
- 2002: No DTP1 data. Estimate based on DTP3 coverage of 94. Current estimate of 98 percent changed from previous revision value of 99 percent.
- 2003: No DTP1 data. Estimate based on DTP3 coverage of 92. Current estimate of 97 percent changed from previous revision value of 99 percent.
- 2004: No DTP1 data. Estimate based on DTP3 coverage of 92. Reported data of 101 percent greater than 100 percent. Current estimate of 97 percent changed from previous revision value of 99 percent.
- 2005: Estimate based on reported data.
- 2006: Estimate based on interpolation between 2005 and 2007.
- 2007: No DTP1 data. Estimate based on DTP3 coverage of 99. Current estimate of 99 percent changed from previous revision value of 98 percent.
- 2008: No DTP1 data. Estimate based on DTP3 coverage of 98. Current estimate of 99 percent changed from previous revision value of 98 percent.
- 2009: DTP1 coverage estimated based on DTP3 coverage of 99. 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	99	99	97	99	99	98	97	97	99	99	99	99	99	98
Official	NA	NA	NA	99	NA	NA	NA	101	100	NA	NA	NA	NA	NA
Administrative	NA	NA	NA	99	100	NA	NA	101	100	NA	NA	NA	96	98
Survey	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

# Brunei Darussalam - DTP3

BRN - 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 interpolation between 2000 and 2002. Reported data of 101 percent greater than 100 percent. Current estimate of 97 percent changed from previous revision value of 99 percent.

2002: Estimate based on reported data. Current estimate of 94 percent changed from previous revision value of 97 percent.

2003: Estimate based on reported data. Current estimate of 92 percent changed from previous revision value of 95 percent.

2004: Estimate based on reported data.

2005: Estimate based on interpolation between 2004 and 2007. Reported data of 108 percent greater than 100 percent. Current estimate of 94 percent changed from previous revision value of 93 percent.

2006: Estimate based on interpolation between 2004 and 2007. Reported data of 106 percent greater than 100 percent. Current estimate of 97 percent changed from previous revision value of 95 percent.

2007: Estimate based on reported data. Current estimate of 99 percent changed from previous revision value of 96 percent.

2008: Estimate based on reported data.

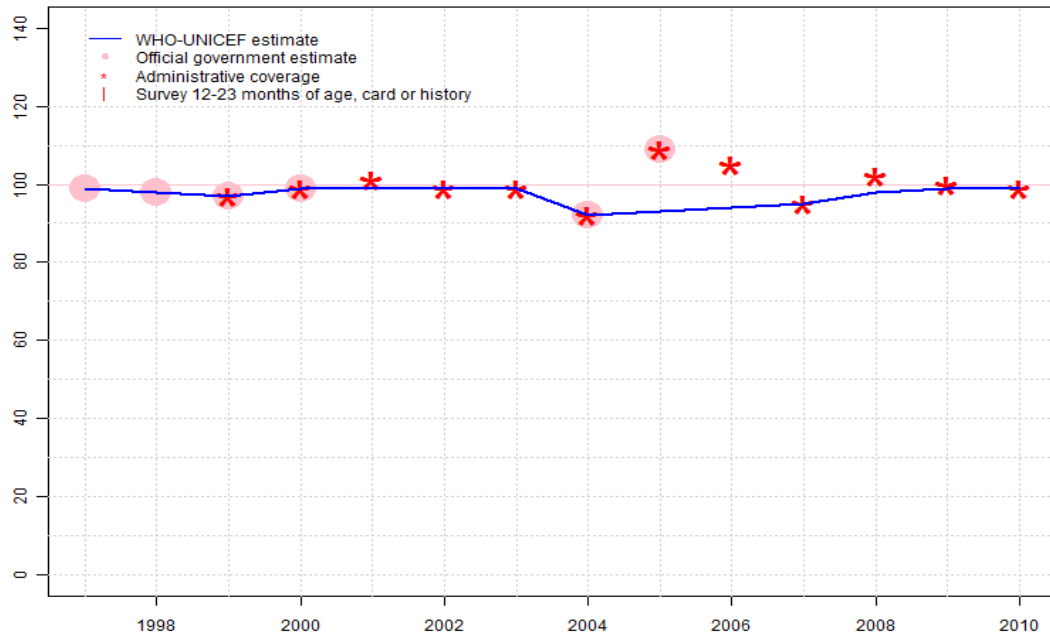
2009: Estimate based on reported data.

2010: Estimate based on reported data.

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Estimate	99	97	92	99	97	94	92	92	94	97	99	98	99	95
Official	99	97	92	99	NA	NA	NA	92	108	NA	NA	NA	NA	NA
Administrative	NA	NA	92	99	101	94	92	92	108	106	99	98	99	95
Survey	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

# Brunei Darussalam - Pol3

BRN - 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 interpolation between 2000 and 2002. Reported data of 101 percent greater than 100 percent.

2002: Estimate based on reported data. Current estimate of 99 percent changed from previous revision value of 97 percent.

2003: Estimate based on reported data. Current estimate of 99 percent changed from previous revision value of 95 percent.

2004: Estimate based on reported data.

2005: Estimate based on interpolation between 2004 and 2007. Reported data of 109 percent greater than 100 percent. Current estimate of 93 percent changed from previous revision value of 94 percent.

2006: Estimate based on interpolation between 2004 and 2007. Reported data of 105 percent greater than 100 percent. Current estimate of 94 percent changed from previous revision value of 95 percent.

2007: Estimate based on reported data. Current estimate of 95 percent changed from previous revision value of 97 percent.

2008: Estimate based on interpolation between 2007 and 2009. Reported data of 102 percent greater than 100 percent.

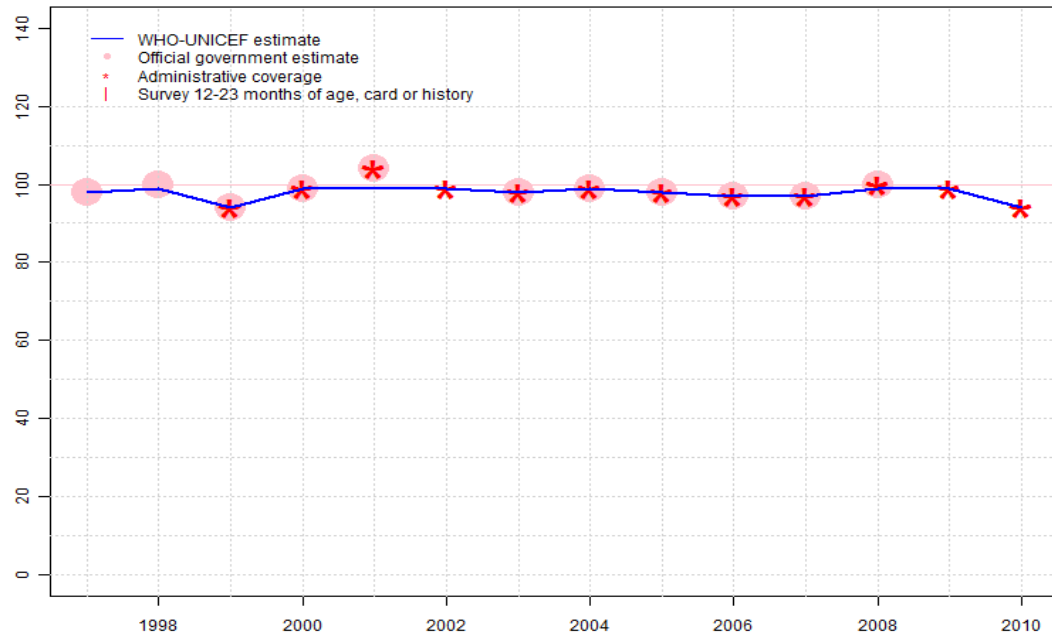
2009: Estimate based on reported data.

2010: Estimate based on reported data.

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Estimate	99	98	97	99	99	99	99	92	93	94	95	98	99	99
Official	99	98	97	99	NA	NA	NA	92	109	NA	NA	NA	NA	NA
Administrative	NA	NA	97	99	101	99	99	92	109	105	95	102	100	99
Survey	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

# Brunei Darussalam - MCV

BRN - MCV



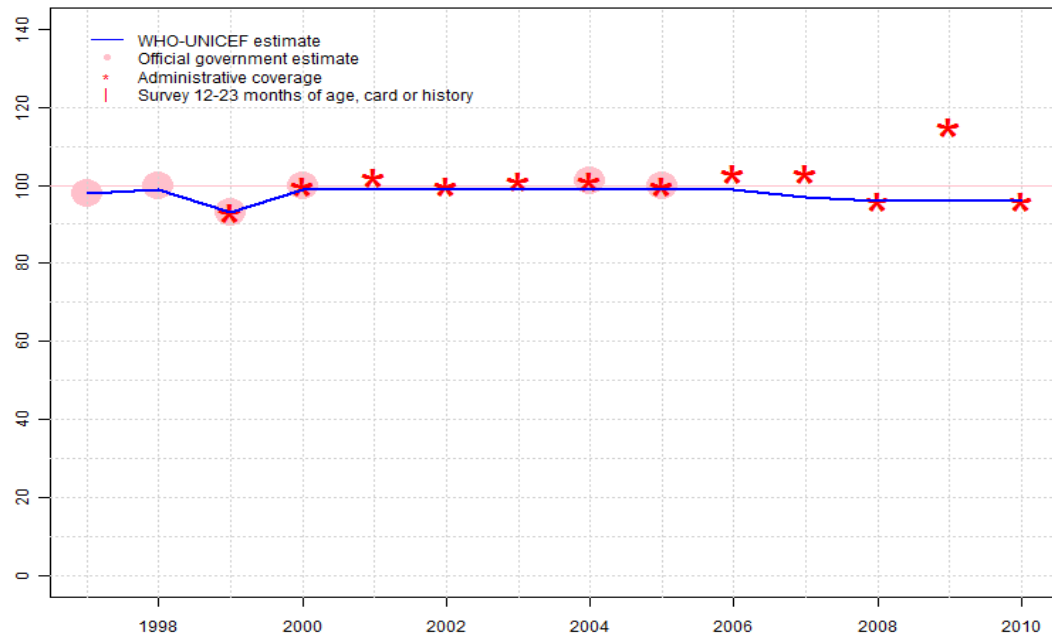
## Description:

- 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 interpolation between 2000 and 2002. Reported data of 104 percent greater than 100 percent.
- 2002: Estimate based on reported data. Current estimate of 99 percent changed from previous revision value of 98 percent.
- 2003: Estimate based on reported data.
- 2004: Estimate based on reported data. Current estimate of 99 percent changed from previous revision value of 97 percent.
- 2005: Estimate based on reported data. Current estimate of 98 percent changed from previous revision value of 97 percent.
- 2006: Estimate based on reported data. Current estimate of 97 percent changed from previous revision value of 98 percent.
- 2007: Estimate based on reported data. Current estimate of 97 percent changed from previous revision value of 99 percent.
- 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	98	99	94	99	99	99	98	99	98	97	97	99	99	94
Official	98	100	94	99	104	NA	98	99	98	97	97	100	NA	NA
Administrative	NA	NA	94	99	104	99	98	99	98	97	97	100	99	94
Survey	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

# Brunei Darussalam - HepB3

BRN - 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 interpolation between 2000 and 2002. Reported data of 102 percent greater than 100 percent.

2002: Estimate based on reported data.

2003: Estimate based on interpolation between 2002 and 2005. Reported data of 101 percent greater than 100 percent.

2004: Estimate based on interpolation between 2002 and 2005. Reported data of 101 percent greater than 100 percent.

2005: Estimate based on reported data.

2006: Estimate based on interpolation between 2005 and 2008. Reported data of 103 percent greater than 100 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. Current estimate of 96 percent changed from previous revision value of 99 percent.

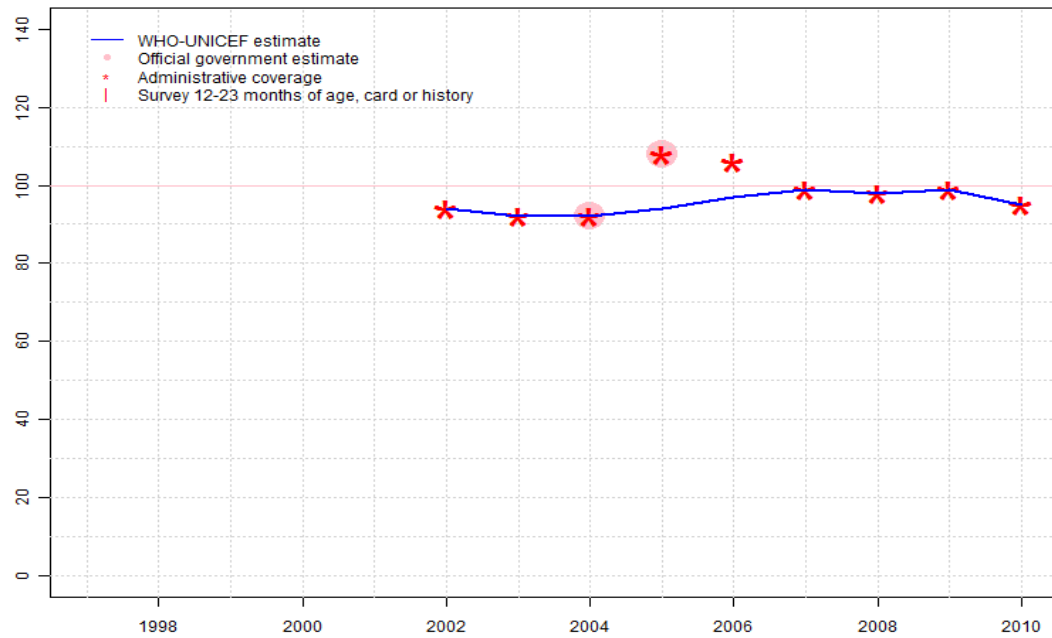
2009: Estimate based on extrapolation from 2008 value of 96 percent. Reported data of 115 percent greater than 100 percent. Reported data not accepted due to an increase from 96 percent to 115 percent with a subsequent decrease to 96 percent. Current estimate of 96 percent changed from previous revision value of 99 percent.

2010: Estimate based on extrapolation from 2008 value of 96 percent. Reported data not accepted due to a decline from 115 level to 96 percent.

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Estimate	98	99	93	99	99	99	99	99	99	99	97	96	96	96
Official	98	100	93	100	NA	NA	NA	101	100	NA	NA	NA	NA	NA
Administrative	NA	NA	93	100	102	100	101	101	100	103	103	96	115	96
Survey	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

# Brunei Darussalam - Hib3

BRN - Hib3

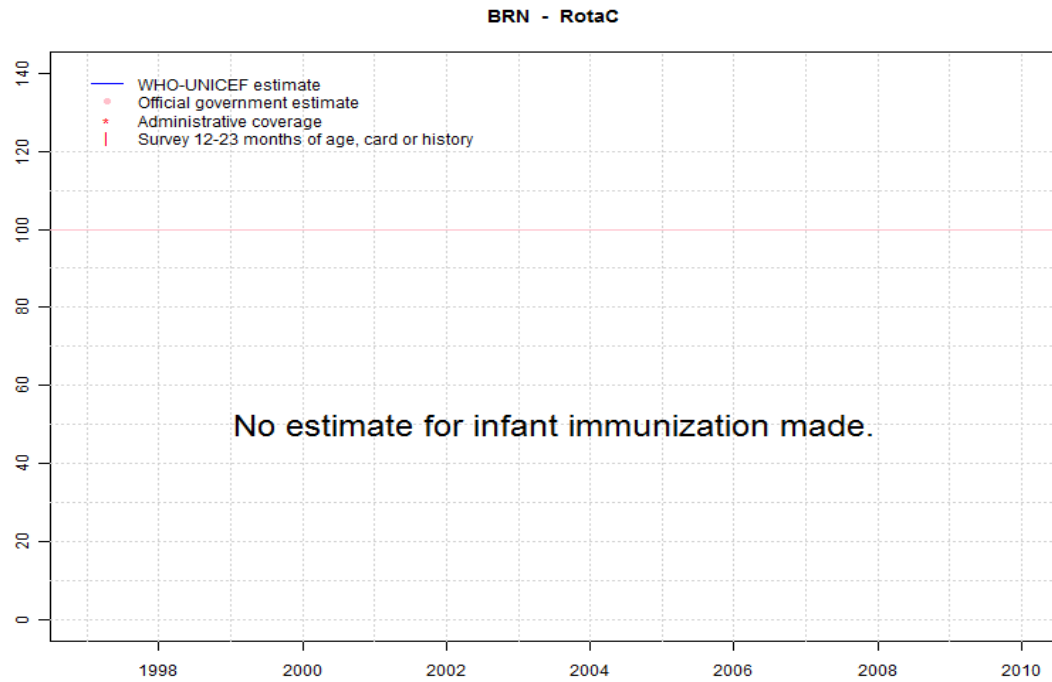


## Description:

- 2002: Estimate based on reported data. Hib introduced in 2002. Vaccine presentation is DTB-Hib.
- 2003: Estimate based on reported data.
- 2004: Estimate based on reported data.
- 2005: Estimate based on interpolation between 2004 and 2007. Reported data of 108 percent greater than 100 percent. Current estimate of 94 percent changed from previous revision value of 93 percent.
- 2006: Estimate based on interpolation between 2004 and 2007. Reported data of 106 percent greater than 100 percent. Current estimate of 97 percent changed from previous revision value of 95 percent.
- 2007: Estimate based on reported data. Current estimate of 99 percent changed from previous revision value of 96 percent.
- 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	NA	NA	NA	NA	NA	94	92	92	94	97	99	98	99	95
Official	NA	NA	NA	NA	NA	NA	NA	92	108	NA	NA	NA	NA	NA
Administrative	NA	NA	NA	NA	NA	94	92	92	108	106	99	98	99	95
Survey	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

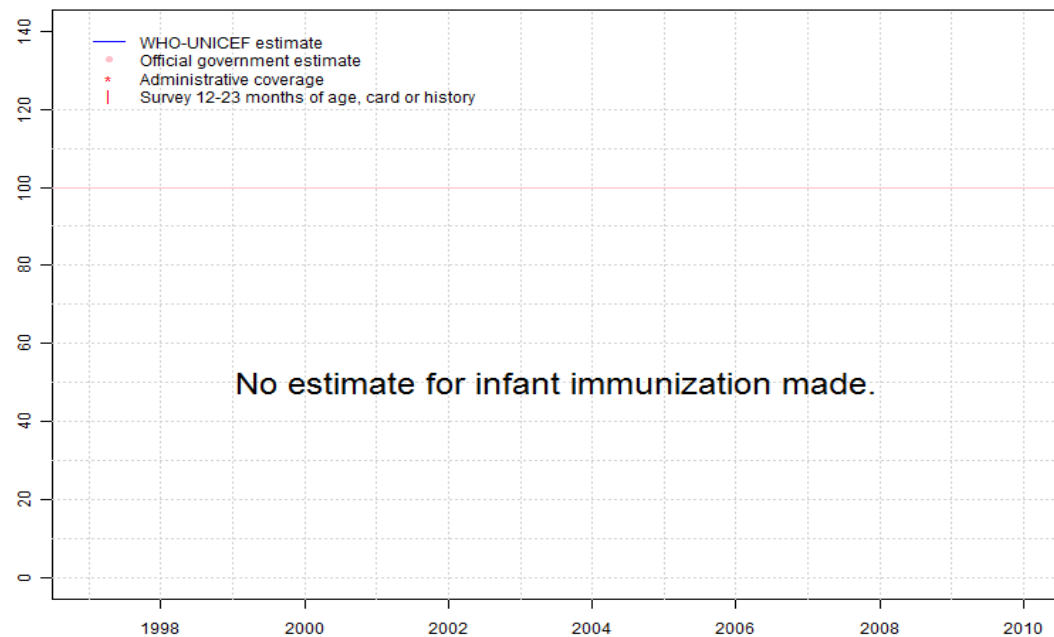
# Brunei Darussalam - RotaC



	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

# Brunei Darussalam - PcV3

BRN - 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

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)

## Brunei Darussalam

### 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	66
1999	62
2000	77
2001	78
2002	79
2003	80
2004	68
2005	64
2006	64
2007	64
2008	65
2009	65
2010	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.