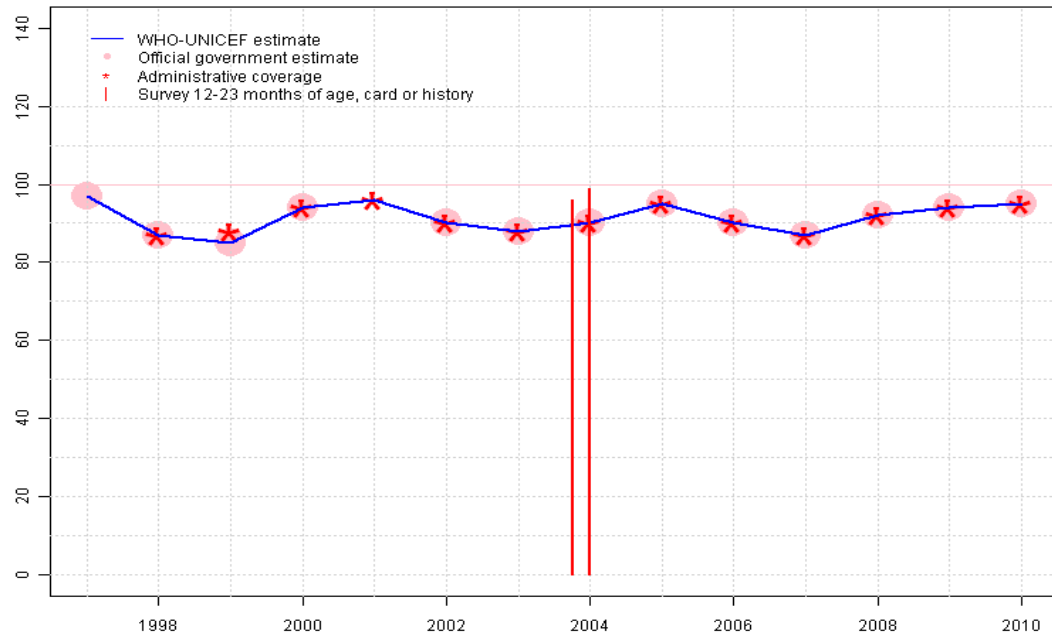


# Jamaica - BCG

JAM - BCG



## Description:

1997: Legacy estimate.

1998: Estimate based on reported data.

1999: Estimate based on reported data.

2000: Estimate based on reported data. Current estimate of 94 percent changed from previous revision value of 93 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. \*Summary survey results of 98 percent based on 2 surveys (see survey summary page) supports reported data of 90 percent. na

2005: Estimate based on reported data.

2006: Estimate based on reported data.

2007: Estimate based on reported data.

2008: Estimate based on reported data.

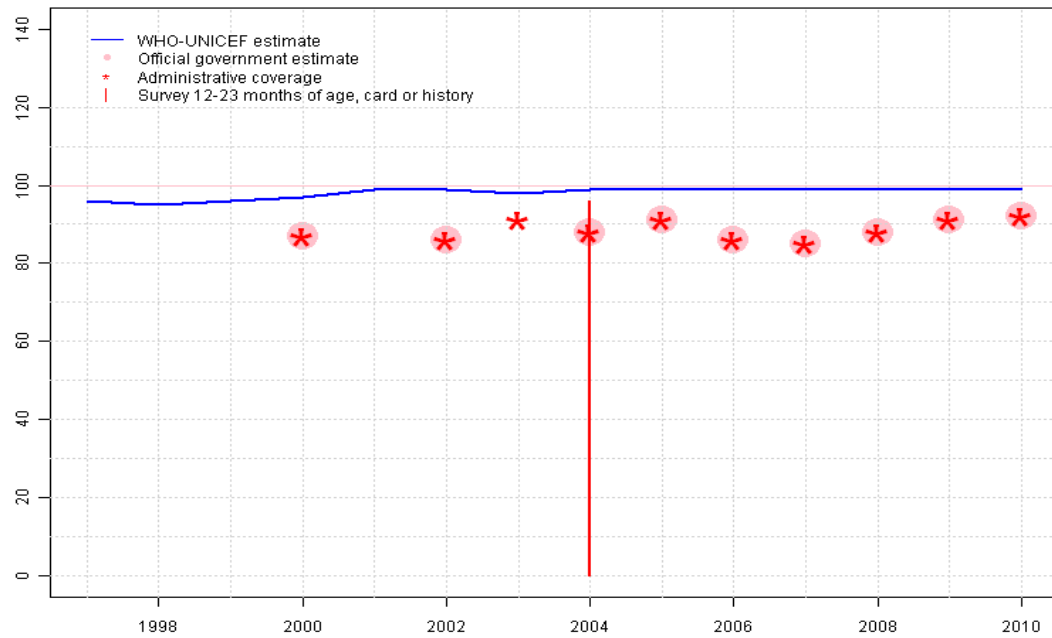
2009: Estimate based on reported data.

2010: Estimate based on reported data.

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Estimate	97	87	85	94	96	90	88	90	95	90	87	92	94	95
Official	97	87	85	94	NA	90	88	90	95	90	87	92	94	95
Administrative	NA	87	88	94	96	90	88	90	95	90	87	92	94	95
Survey	NA	NA	NA	NA	NA	NA	NA	*	NA	NA	NA	NA	NA	NA

# Jamaica - DTP1

JAM - DTP1



## Description:

1997: Legacy estimate.

1998: No accepted DTP1 data. Estimate based on DTP3 coverage of 86. Current estimate of 95 percent changed from previous revision value of 93 percent.

1999: No accepted DTP1 data. Estimate based on DTP3 coverage of 89. Current estimate of 96 percent changed from previous revision value of 90 percent.

2000: DTP1 coverage estimated based on DTP3 coverage of 93. Current estimate of 97 percent changed from previous revision value of 87 percent.

2001: No accepted DTP1 data. Estimate based on DTP3 coverage of 98. Current estimate of 99 percent changed from previous revision value of 96 percent.

2002: DTP1 coverage estimated based on DTP3 coverage of 97. Current estimate of 99 percent changed from previous revision value of 86 percent.

2003: DTP1 coverage estimated based on DTP3 coverage of 95. Current estimate of 98 percent changed from previous revision value of 91 percent.

2004: DTP1 coverage estimated based on DTP3 coverage of 97. naCurrent estimate of 99 percent changed from previous revision value of 88 percent.

2005: DTP1 coverage estimated based on DTP3 coverage of 104. Current estimate of 99 percent changed from previous revision value of 91 percent.

2006: DTP1 coverage estimated based on DTP3 coverage of 101. Current estimate of 99 percent changed from previous revision value of 86 percent.

2007: DTP1 coverage estimated based on DTP3 coverage of 101. Current estimate of 99 percent changed from previous revision value of 85 percent.

2008: DTP1 coverage estimated based on DTP3 coverage of 103. Current estimate of 99 percent changed from previous revision value of 88 percent.

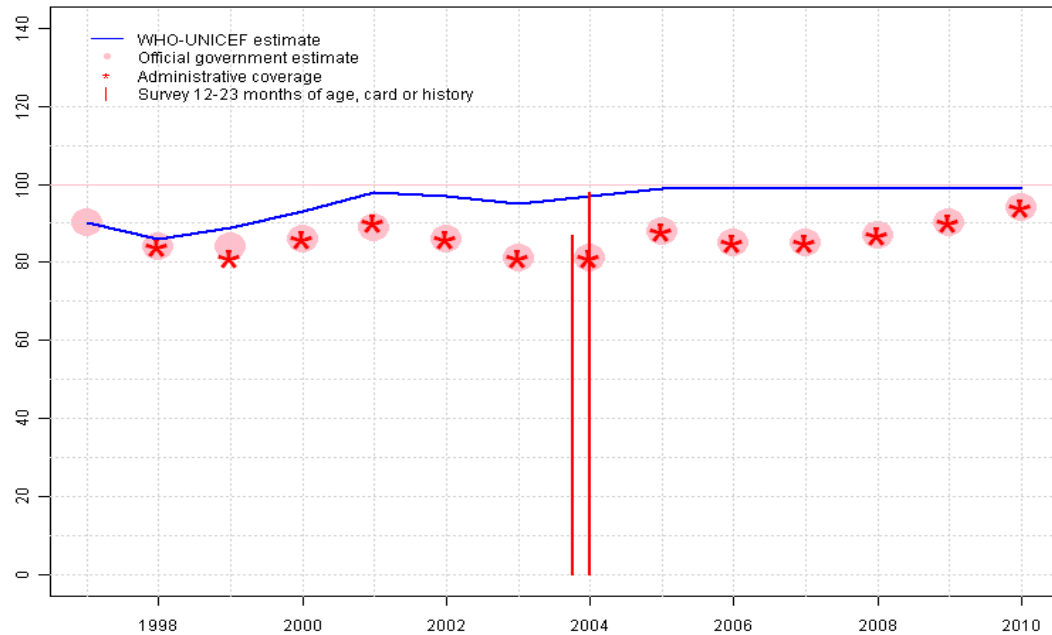
2009: DTP1 coverage estimated based on DTP3 coverage of 106. Current estimate of 99 percent changed from previous revision value of 91 percent.

2010: DTP1 coverage estimated based on DTP3 coverage of 110.

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Estimate	96	95	96	97	99	99	98	99	99	99	99	99	99	99
Official	NA	NA	NA	87	NA	86	NA	88	91	86	85	88	91	92
Administrative	NA	NA	NA	87	NA	86	91	88	91	86	85	88	91	92
Survey	NA	NA	NA	NA	NA	NA	NA	96	NA	NA	NA	NA	NA	NA

# Jamaica - DTP3

JAM - DTP3



	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Estimate	90	86	89	93	98	97	95	97	99	99	99	99	99	99
Official	90	84	84	86	89	86	81	81	88	85	85	87	90	94
Administrative	NA	84	81	86	90	86	81	81	88	85	85	87	90	94
Survey	NA	NA	NA	NA	NA	NA	NA	*	NA	NA	NA	NA	NA	NA

## Description:

1997: Legacy estimate.

1998: Reported data calibrated to 1997 and 2004 levels. Current estimate of 86 percent changed from previous revision value of 85 percent.

1999: Reported data calibrated to 1997 and 2004 levels. Current estimate of 89 percent changed from previous revision value of 84 percent.

2000: Reported data calibrated to 1997 and 2004 levels. Current estimate of 93 percent changed from previous revision value of 86 percent.

2001: Reported data calibrated to 1997 and 2004 levels. Current estimate of 98 percent changed from previous revision value of 89 percent.

2002: Reported data calibrated to 1997 and 2004 levels. Current estimate of 97 percent changed from previous revision value of 86 percent.

2003: Reported data calibrated to 1997 and 2004 levels. Current estimate of 95 percent changed from previous revision value of 81 percent.

2004: Estimate based on survey results. \*Summary survey results of 97 percent based on 2 surveys (see survey summary page) does not support reported data of 81 percent. Survey results of 87 percent modified for recall bias to 95 percent based on 1st dose card or history coverage of 96 percent, 1st dose card only coverage of 74 percent and 3d dose card only coverage of 73 percent. Current estimate of 97 percent changed from previous revision value of 81 percent.

2005: Reported data 88 percent calibrated to 2004 levels. Current estimate of 99 percent changed from previous revision value of 88 percent.

2006: Reported data 85 percent calibrated to 2004 levels. Current estimate of 99 percent changed from previous revision value of 85 percent.

2007: Reported data 85 percent calibrated to 2004 levels. Current estimate of 99 percent changed from previous revision value of 85 percent.

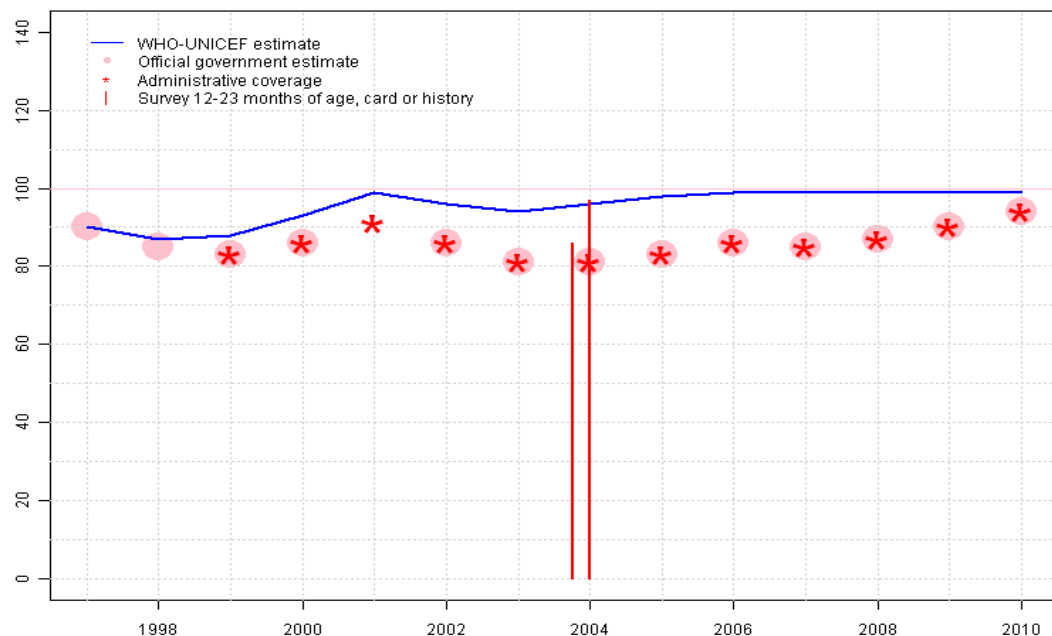
2008: Reported data 87 percent calibrated to 2004 levels. Current estimate of 99 percent changed from previous revision value of 87 percent.

2009: Reported data 90 percent calibrated to 2004 levels. Current estimate of 99 percent changed from previous revision value of 90 percent.

2010: Reported data 94 percent calibrated to 2004 levels.

# Jamaica - Pol3

JAM - Pol3



	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Estimate	90	87	88	93	99	96	94	96	98	99	99	99	99	99
Official	90	85	83	86	NA	86	81	81	83	86	85	87	90	94
Administrative	NA	NA	83	86	91	86	81	81	83	86	85	87	90	94
Survey	NA	NA	NA	NA	NA	NA	NA	*	NA	NA	NA	NA	NA	NA

## Description:

1997: Legacy estimate.

1998: Reported data calibrated to 1997 and 2004 levels. Current estimate of 87 percent changed from previous revision value of 85 percent.

1999: Reported data calibrated to 1997 and 2004 levels. Current estimate of 88 percent changed from previous revision value of 83 percent.

2000: Reported data calibrated to 1997 and 2004 levels. Current estimate of 93 percent changed from previous revision value of 86 percent.

2001: Reported data calibrated to 1997 and 2004 levels. Current estimate of 99 percent changed from previous revision value of 91 percent.

2002: Reported data calibrated to 1997 and 2004 levels. Current estimate of 96 percent changed from previous revision value of 86 percent.

2003: Reported data calibrated to 1997 and 2004 levels. Current estimate of 94 percent changed from previous revision value of 81 percent.

2004: Estimate based on survey results. \*Summary survey results of 96 percent based on 2 surveys (see survey summary page) does not support reported data of 81 percent. Survey results of 86 percent modified for recall bias to 95 percent based on 1st dose card or history coverage of 96 percent, 1st dose card only coverage of 74 percent and 3d dose card only coverage of 73 percent. Current estimate of 96 percent changed from previous revision value of 81 percent.

2005: Reported data 83 percent calibrated to 2004 levels. Current estimate of 98 percent changed from previous revision value of 83 percent.

2006: Reported data 86 percent calibrated to 2004 levels. Current estimate of 99 percent changed from previous revision value of 86 percent.

2007: Reported data 85 percent calibrated to 2004 levels. Current estimate of 99 percent changed from previous revision value of 85 percent.

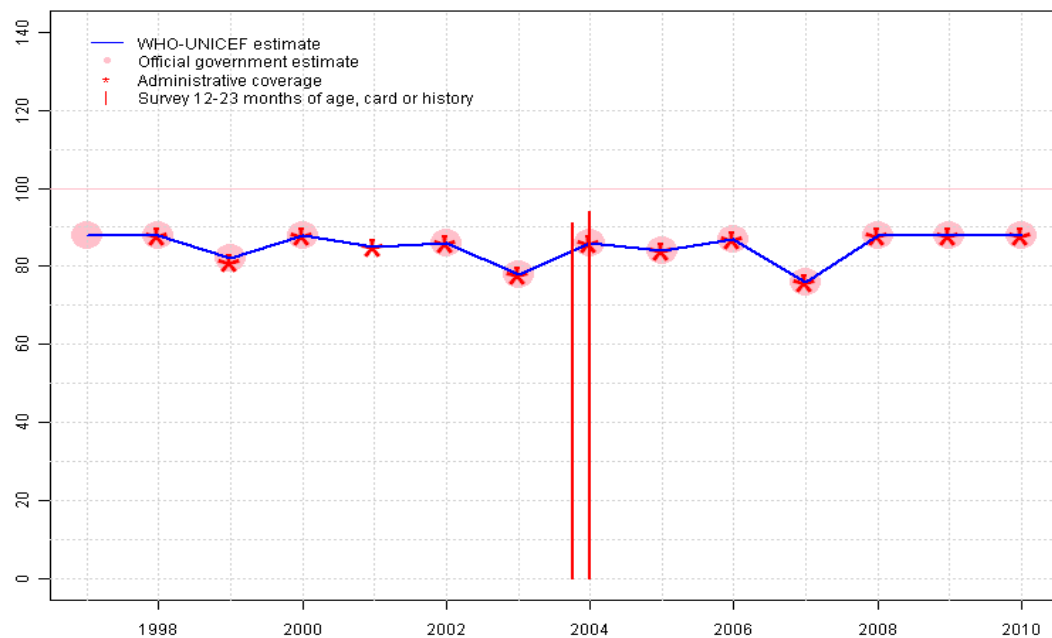
2008: Reported data 87 percent calibrated to 2004 levels. Current estimate of 99 percent changed from previous revision value of 87 percent.

2009: Reported data 90 percent calibrated to 2004 levels. Current estimate of 99 percent changed from previous revision value of 90 percent.

2010: Reported data 94 percent calibrated to 2004 levels.

# Jamaica - MCV

JAM - MCV



## Description:

1997: Legacy estimate.

1998: Estimate based on reported data. Current estimate of 88 percent changed from previous revision value of 85 percent.

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. Current estimate of 78 percent changed from previous revision value of 79 percent.

2004: Estimate based on reported data. \*Summary survey results of 93 percent based on 2 surveys (see survey summary page) supports reported data of 86 percent. na

2005: Estimate based on reported data.

2006: Estimate based on reported data.

2007: Estimate based on reported data. Interruption in routine services because of hurricane Dean

2008: Estimate based on reported data.

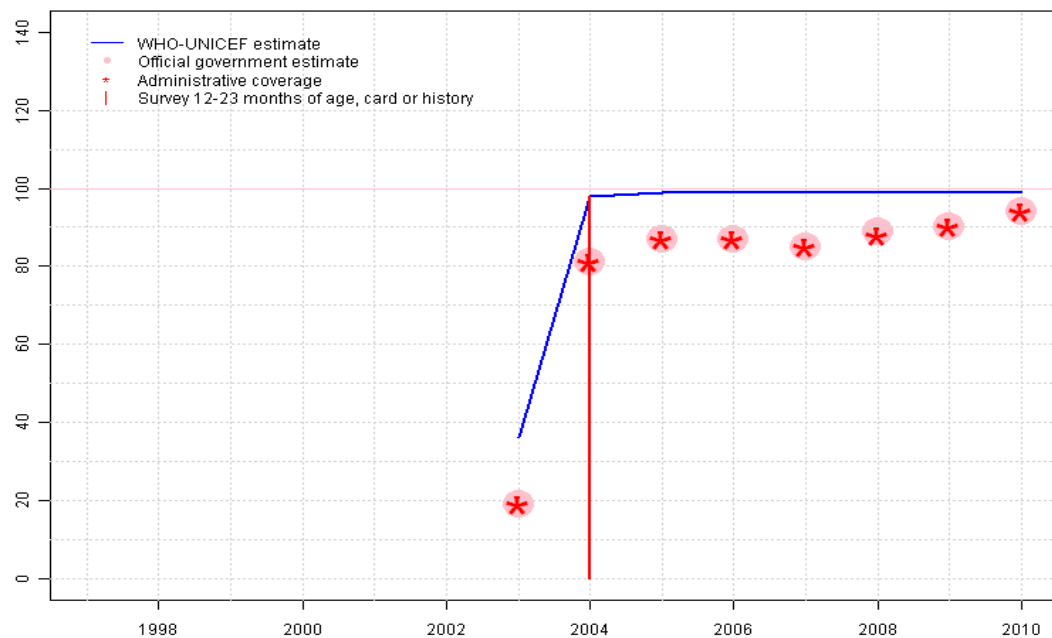
2009: Estimate based on reported data.

2010: Estimate based on reported data.

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Estimate	88	88	82	88	85	86	78	86	84	87	76	88	88	88
Official	88	88	82	88	NA	86	78	86	84	87	76	88	88	88
Administrative	NA	88	81	88	85	86	78	86	84	87	76	88	88	88
Survey	NA	NA	NA	NA	NA	NA	NA	*	NA	NA	NA	NA	NA	NA

# Jamaica - HepB3

JAM - HepB3



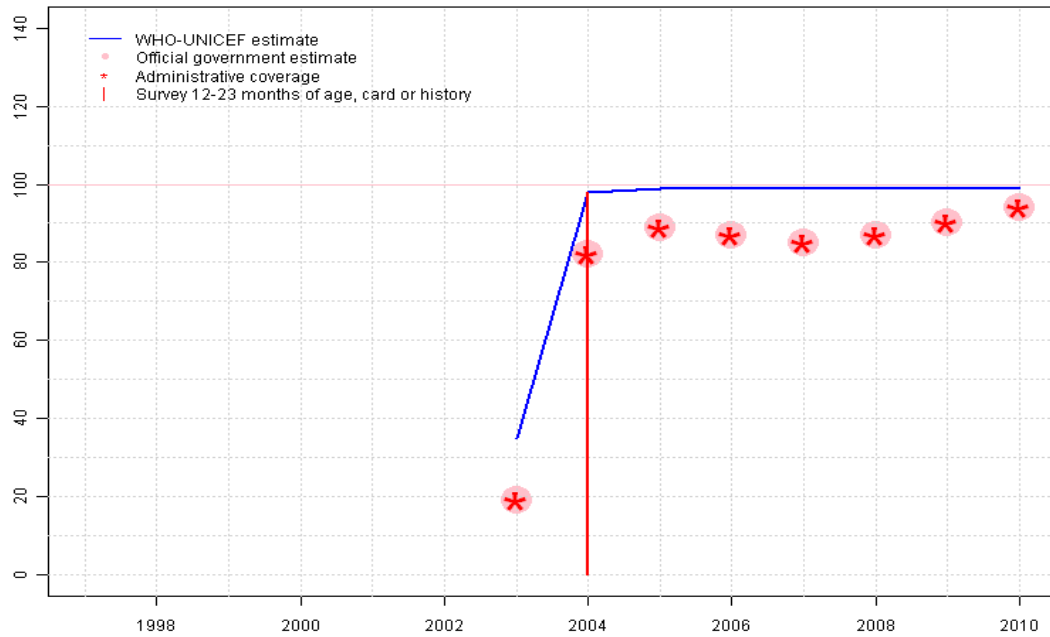
## Description:

- 2003: Reported data 19 percent calibrated to 2004 levels. HepB introduced in 2003. Current estimate of 36 percent changed from previous revision value of 19 percent.
- 2004: Estimate based on survey results. 98 percent survey results does not support reported data of 81 percent. Current estimate of 98 percent changed from previous revision value of 81 percent.
- 2005: Reported data 87 percent calibrated to 2004 levels. Current estimate of 99 percent changed from previous revision value of 87 percent.
- 2006: Reported data 87 percent calibrated to 2004 levels. Current estimate of 99 percent changed from previous revision value of 87 percent.
- 2007: Reported data 85 percent calibrated to 2004 levels. Current estimate of 99 percent changed from previous revision value of 85 percent.
- 2008: Reported data 89 percent calibrated to 2004 levels. Current estimate of 99 percent changed from previous revision value of 89 percent.
- 2009: Reported data 90 percent calibrated to 2004 levels. Current estimate of 99 percent changed from previous revision value of 90 percent.
- 2010: Reported data 94 percent calibrated to 2004 levels.

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Estimate	NA	NA	NA	NA	NA	NA	36	98	99	99	99	99	99	99
Official	NA	NA	NA	NA	NA	NA	19	81	87	87	85	89	90	94
Administrative	NA	NA	NA	NA	NA	NA	19	81	87	87	85	88	90	94
Survey	NA	NA	NA	NA	NA	NA	NA	98	NA	NA	NA	NA	NA	NA

# Jamaica - Hib3

JAM - Hib3

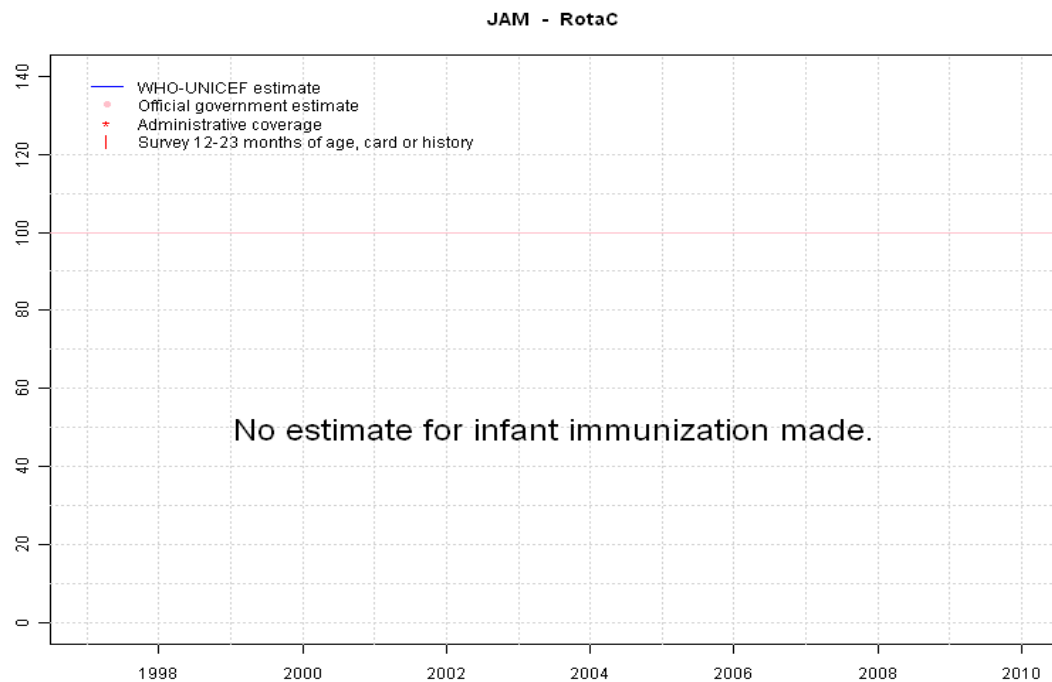


## Description:

- 2003: Reported data 19 percent calibrated to 2004 levels. Hib introduced in 2003. Current estimate of 35 percent changed from previous revision value of 19 percent.
- 2004: Estimate based on survey results. 98 percent survey results does not support reported data of 82 percent. Current estimate of 98 percent changed from previous revision value of 82 percent.
- 2005: Reported data 89 percent calibrated to 2004 levels. Current estimate of 99 percent changed from previous revision value of 89 percent.
- 2006: Reported data 87 percent calibrated to 2004 levels. Current estimate of 99 percent changed from previous revision value of 87 percent.
- 2007: Reported data 85 percent calibrated to 2004 levels. Current estimate of 99 percent changed from previous revision value of 85 percent.
- 2008: Reported data 87 percent calibrated to 2004 levels. Current estimate of 99 percent changed from previous revision value of 87 percent.
- 2009: Reported data 90 percent calibrated to 2004 levels. Current estimate of 99 percent changed from previous revision value of 90 percent.
- 2010: Reported data 94 percent calibrated to 2004 levels.

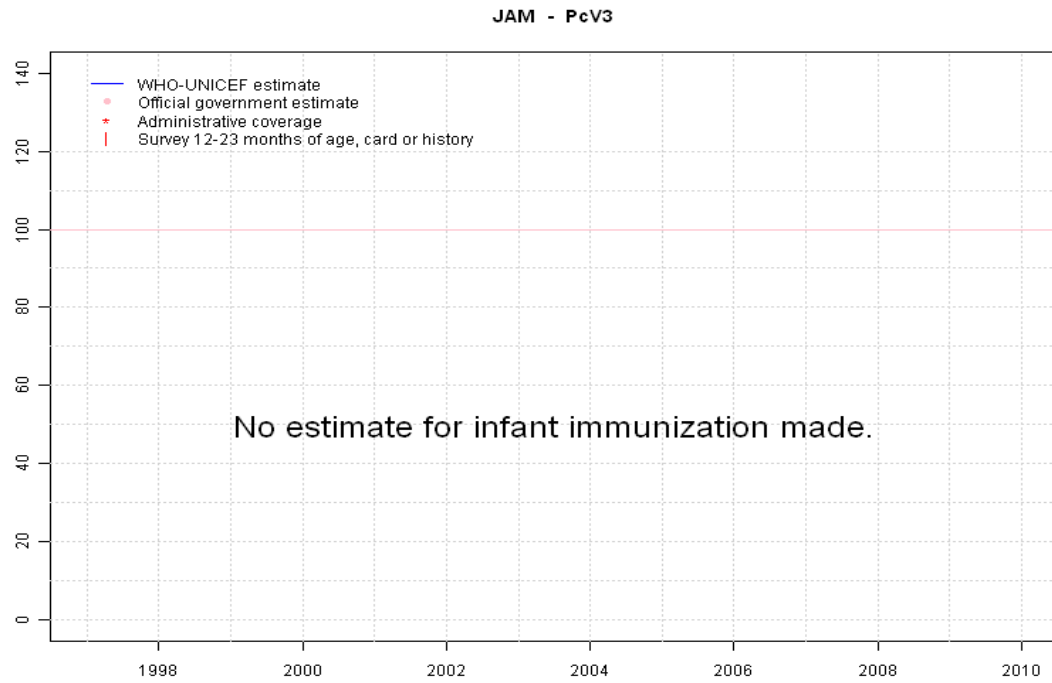
	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Estimate	NA	NA	NA	NA	NA	NA	35	98	99	99	99	99	99	99
Official	NA	NA	NA	NA	NA	NA	19	82	89	87	85	87	90	94
Administrative	NA	NA	NA	NA	NA	NA	19	82	89	87	85	87	90	94
Survey	NA	NA	NA	NA	NA	NA	NA	98	NA	NA	NA	NA	NA	NA

# Jamaica - 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

# Jamaica - 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

# Jamaica - survey details

## 2004 Jamaica Multiple Indicator Cluster Survey 2005

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	Card	74	18-29 m	298	74
BCG	Card or History	96	18-29 m	298	74
BCG	History	22	18-29 m	298	74
BCG	C or H <12 months	94	18-29 m	298	74
DTP1	C or H <12 months	91	18-29 m	298	74
DTP1	Card	74	18-29 m	298	74
DTP1	Card or History	96	18-29 m	298	74
DTP1	History	22	18-29 m	298	74
DTP3	C or H <12 months	82	18-29 m	298	74
DTP3	Card	73	18-29 m	298	74
DTP3	Card or History	87	18-29 m	298	74
DTP3	History	14	18-29 m	298	74
MCV	History	21	18-29 m	298	74
MCV	C or H <12 months	87	18-29 m	298	74
MCV	Card or History	91	18-29 m	298	74
MCV	Card	70	18-29 m	298	74
Pol1	C or H <12 months	96	18-29 m	298	74

Pol1	Card	74	18-29 m	298	74
Pol1	Card or History	96	18-29 m	298	74
Pol1	History	22	18-29 m	298	74
Pol3	C or H <12 months	80	18-29 m	298	74
Pol3	Card	73	18-29 m	298	74
Pol3	Card or History	86	18-29 m	298	74
Pol3	History	13	18-29 m	298	74

## 2004 Survey of Childhood Vaccine Coverage in the Parishes of Jamaica

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	Card or History	99	12-23 m	3744	100
DTP3	Card or History	98	12-23 m	3744	100
HepB3	Card or History	98	12-23 m	3744	100
Hib3	Card or History	98	12-23 m	3744	100
MCV	Card or History	94	12-23 m	3744	100
Pol3	Card or History	97	12-23 m	3744	100

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)

## Jamaica

### 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	
1998	
1999	
2000	51
2001	72
2002	71
2003	52
2004	59
2005	51
2006	53
2007	54
2008	58
2009	62
2010	80

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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.