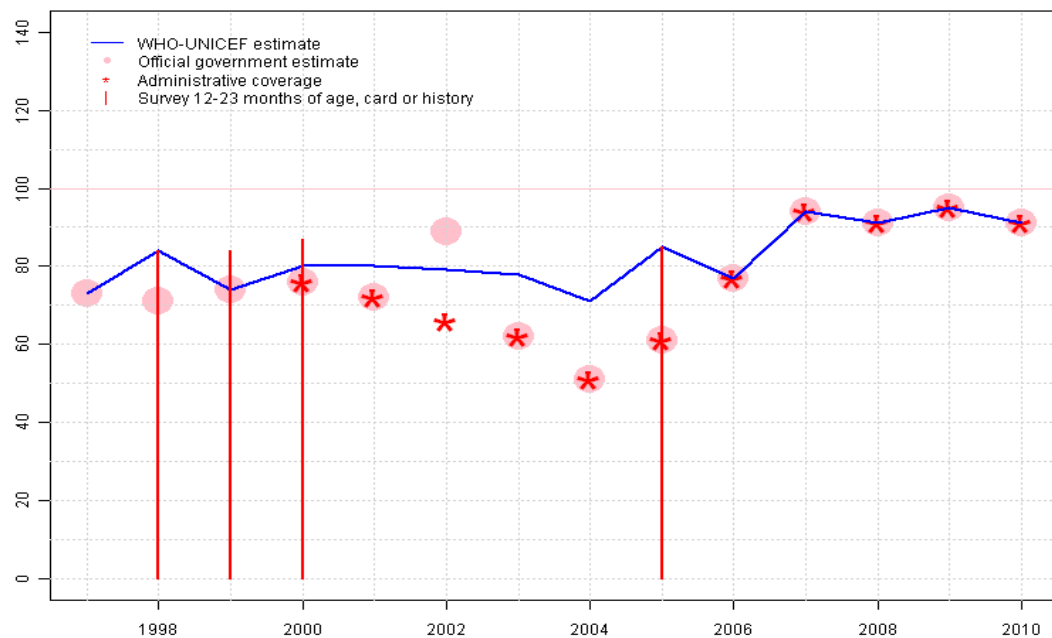


Côte d'Ivoire - BCG

CIV - BCG



	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Estimate	73	84	74	80	80	79	78	71	85	77	94	91	95	91
Official	73	71	74	76	72	89	62	51	61	77	94	91	95	91
Administrative	NA	NA	NA	76	72	66	62	51	61	77	94	91	95	91
Survey	NA	84	84	87	NA	NA	NA	NA	85	NA	NA	NA	NA	NA

Description:

1997: Legacy estimate.

1998: Estimate based on survey results. 84 percent survey results does not support reported data of 71 percent.

1999: Estimate based on reported data. 84 percent survey results supports reported data of 74 percent. Current estimate of 74 percent changed from previous revision value of 84 percent.

2000: Reported data calibrated to 1999 and 2005 levels. Survey results not accepted. Sample size 0 less than 300. Current estimate of 80 percent changed from previous revision value of 84 percent.

2001: Reported data calibrated to 1999 and 2005 levels. Current estimate of 80 percent changed from previous revision value of 84 percent.

2002: Estimate based on interpolation between 2001 and 2003. Reported data not accepted due to an increase from 72 percent to 89 percent with a subsequent decrease to 62 percent. Current estimate of 79 percent changed from previous revision value of 85 percent.

2003: Reported data calibrated to 1999 and 2005 levels. Current estimate of 78 percent changed from previous revision value of 85 percent.

2004: Reported data calibrated to 1999 and 2005 levels. Current estimate of 71 percent changed from previous revision value of 85 percent.

2005: Estimate based on survey results. 85 percent survey results does not support reported data of 61 percent.

2006: The increase in reported coverage is attributable to revised denominator estimate.

2007: Estimate based on reported data.

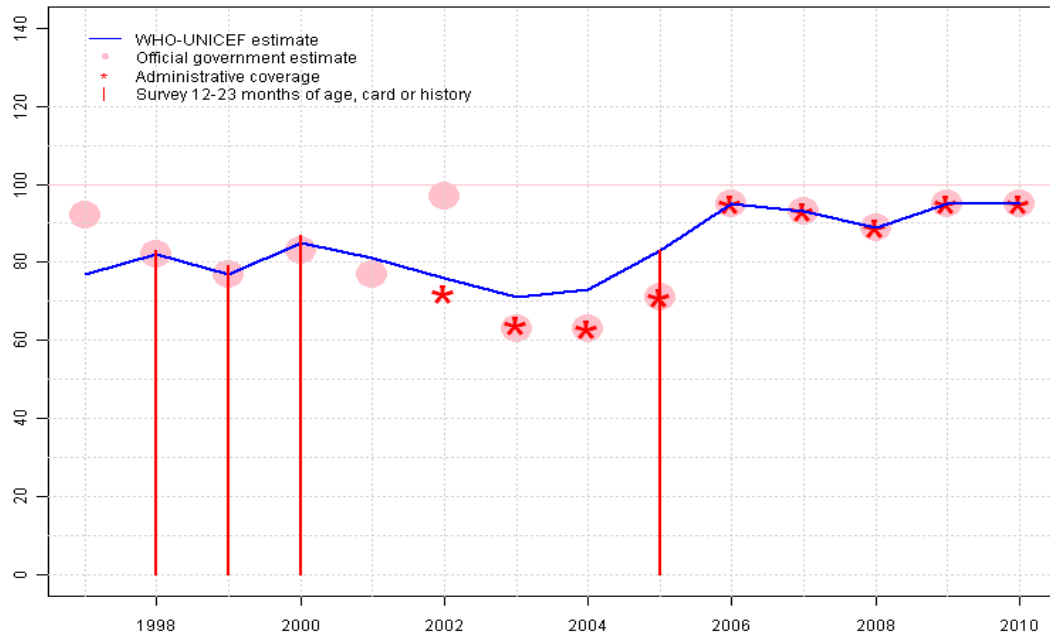
2008: Estimate based on reported data.

2009: Estimate based on reported data.

2010: Estimate based on reported data.

Côte d'Ivoire - DTP1

CIV - DTP1



	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Estimate	77	82	77	85	81	76	71	73	83	95	93	89	95	95
Official	92	82	77	83	77	97	63	63	71	95	93	89	95	95
Administrative	NA	NA	NA	NA	NA	72	64	63	71	95	93	89	95	95
Survey	NA	83	79	87	NA	NA	NA	NA	83	NA	NA	NA	NA	NA

Description:

1997: Legacy estimate.

1998: Estimate based on reported data. 83 percent survey results supports reported data of 82 percent.

1999: Estimate based on reported data. 79 percent survey results supports reported data of 77 percent. Current estimate of 77 percent changed from previous revision value of 82 percent.

2000: Reported data calibrated to 1999 and 2005 levels. Survey results not accepted. Sample size 0 less than 300. Current estimate of 85 percent changed from previous revision value of 82 percent.

2001: Reported data calibrated to 1999 and 2005 levels. Current estimate of 81 percent changed from previous revision value of 82 percent.

2002: Estimate based on interpolation between 2001 and 2003. Reported data not accepted due to an increase from 77 percent to 97 percent with a subsequent decrease to 63 percent. Current estimate of 76 percent changed from previous revision value of 83 percent.

2003: Reported data calibrated to 1999 and 2005 levels. Current estimate of 71 percent changed from previous revision value of 83 percent.

2004: Reported data calibrated to 1999 and 2005 levels. Current estimate of 73 percent changed from previous revision value of 83 percent.

2005: Estimate based on survey results. 83 percent survey results does not support reported data of 71 percent.

2006: The increase in reported coverage is attributable to revised denominator estimate.

2007: Estimate based on reported data.

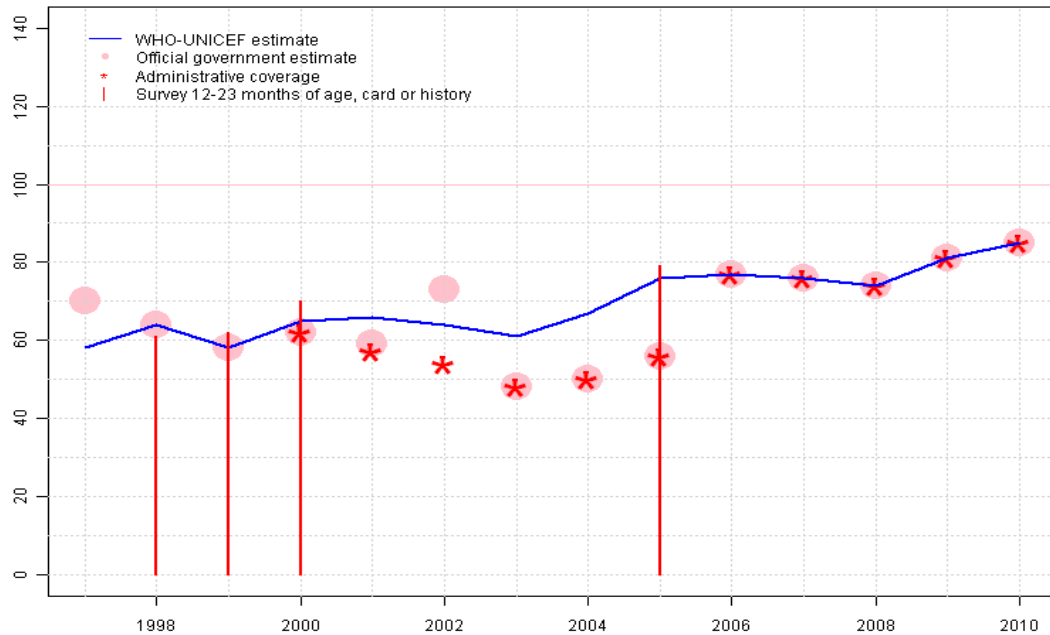
2008: Estimate based on reported data.

2009: Estimate based on reported data.

2010: Estimate based on reported data.

Côte d'Ivoire - DTP3

CIV - DTP3



	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Estimate	58	64	58	65	66	64	61	67	76	77	76	74	81	85
Official	70	64	58	62	59	73	48	50	56	77	76	74	81	85
Administrative	NA	NA	NA	62	57	54	48	50	56	77	76	74	81	85
Survey	NA	61	62	70	NA	NA	NA	NA	79	NA	NA	NA	NA	NA

Description:

1997: Legacy estimate.

1998: Estimate based on reported data. 65 percent survey results supports reported data of 64 percent. Survey results of 61 percent modified for recall bias to 65 percent based on 1st dose card or history coverage of 83 percent, 1st dose card only coverage of 69 percent and 3d dose card only coverage of 54 percent.

1999: Estimate based on reported data. 63 percent survey results supports reported data of 58 percent. Survey results of 62 percent modified for recall bias to 63 percent based on 1st dose card or history coverage of 79 percent, 1st dose card only coverage of 70 percent and 3d dose card only coverage of 56 percent. Current estimate of 58 percent changed from previous revision value of 66 percent.

2000: Reported data calibrated to 1999 and 2005 levels. Survey results not accepted. Sample size 0 less than 300. Current estimate of 65 percent changed from previous revision value of 67 percent.

2001: Reported data calibrated to 1999 and 2005 levels. Current estimate of 66 percent changed from previous revision value of 69 percent.

2002: Estimate based on interpolation between 2001 and 2003. Reported data not accepted due to an increase from 59 percent to 73 percent with a subsequent decrease to 48 percent. Current estimate of 64 percent changed from previous revision value of 71 percent.

2003: Reported data calibrated to 1999 and 2005 levels. Current estimate of 61 percent changed from previous revision value of 73 percent.

2004: Reported data calibrated to 1999 and 2005 levels. Current estimate of 67 percent changed from previous revision value of 74 percent.

2005: Estimate based on survey results. 76 percent survey results does not support reported data of 56 percent. Survey results of 79 percent modified for recall bias to 76 percent based on 1st dose card or history coverage of 83 percent, 1st dose card only coverage of 72 percent and 3d dose card only coverage of 66 percent.

2006: The increase in reported coverage is attributable to revised denominator estimate.

2007: Estimate based on reported data.

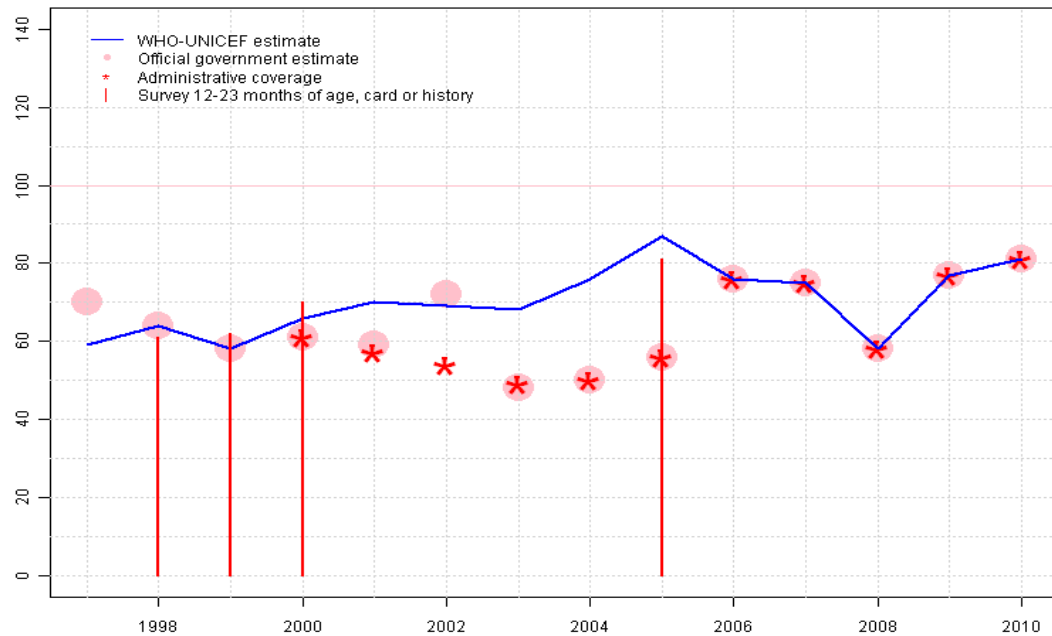
2008: Estimate based on reported data.

2009: Estimate based on reported data.

2010: Estimate based on reported data.

Côte d'Ivoire - Pol3

CIV - Pol3



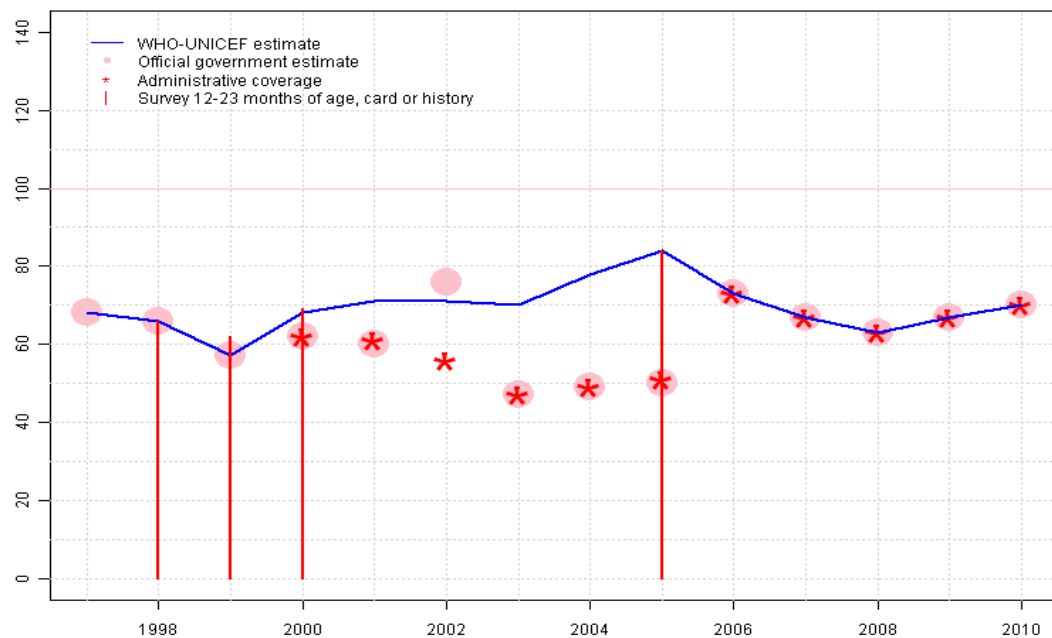
	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Estimate	59	64	58	66	70	69	68	76	87	76	75	58	77	81
Official	70	64	58	61	59	72	48	50	56	76	75	58	77	81
Administrative	NA	NA	NA	61	57	54	49	50	56	76	75	58	77	81
Survey	NA	61	62	70	NA	NA	NA	NA	81	NA	NA	NA	NA	NA

Description:

- 1997: Legacy estimate.
- 1998: Estimate based on reported data. 66 percent survey results supports reported data of 64 percent. Survey results of 61 percent modified for recall bias to 66 percent based on 1st dose card or history coverage of 86 percent, 1st dose card only coverage of 70 percent and 3d dose card only coverage of 54 percent.
- 1999: Estimate based on reported data. 67 percent survey results supports reported data of 58 percent. Survey results of 62 percent modified for recall bias to 67 percent based on 1st dose card or history coverage of 86 percent, 1st dose card only coverage of 71 percent and 3d dose card only coverage of 55 percent. Current estimate of 58 percent changed from previous revision value of 67 percent.
- 2000: Reported data calibrated to 1999 and 2005 levels. Survey results not accepted. Sample size 0 less than 300. Current estimate of 66 percent changed from previous revision value of 71 percent.
- 2001: Reported data calibrated to 1999 and 2005 levels. Current estimate of 70 percent changed from previous revision value of 74 percent.
- 2002: Estimate based on interpolation between 2001 and 2003. Reported data not accepted due to an increase from 59 percent to 72 percent with a subsequent decrease to 48 percent. Current estimate of 69 percent changed from previous revision value of 77 percent.
- 2003: Reported data calibrated to 1999 and 2005 levels. Current estimate of 68 percent changed from previous revision value of 80 percent.
- 2004: Reported data calibrated to 1999 and 2005 levels. Current estimate of 76 percent changed from previous revision value of 84 percent.
- 2005: Estimate based on survey results. 87 percent survey results does not support reported data of 56 percent. Survey results of 81 percent modified for recall bias to 87 percent based on 1st dose card or history coverage of 94 percent, 1st dose card only coverage of 71 percent and 3d dose card only coverage of 66 percent.
- 2006: The increase in reported coverage is attributable to revised denominator estimate.
- 2007: Estimate based on reported data.
- 2008: Estimate based on reported data. Decline in coverage is attributed to two months shortage of vaccine.
- 2009: Estimate based on reported data.
- 2010: Estimate based on reported data.

Côte d'Ivoire - MCV

CIV - MCV



Description:

1997: Legacy estimate.

1998: Estimate based on reported data. 66 percent survey results supports reported data of 66 percent.

1999: Estimate based on reported data. 62 percent survey results supports reported data of 57 percent. Current estimate of 57 percent changed from previous revision value of 69 percent.

2000: Reported data calibrated to 1999 and 2005 levels. Survey results not accepted. Sample size 0 less than 300. Current estimate of 68 percent changed from previous revision value of 71 percent.

2001: Reported data calibrated to 1999 and 2005 levels. Current estimate of 71 percent changed from previous revision value of 74 percent.

2002: Estimate based on interpolation between 2001 and 2003. Reported data not accepted due to an increase from 60 percent to 76 percent with a subsequent decrease to 47 percent. Current estimate of 71 percent changed from previous revision value of 76 percent.

2003: Reported data calibrated to 1999 and 2005 levels. Current estimate of 70 percent changed from previous revision value of 79 percent.

2004: Reported data calibrated to 1999 and 2005 levels. Current estimate of 78 percent changed from previous revision value of 81 percent.

2005: Estimate based on survey results. 84 percent survey results does not support reported data of 50 percent.

2006: The increase in reported coverage is attributable to revised denominator estimate.

2007: Estimate based on reported data.

2008: Estimate based on reported data.

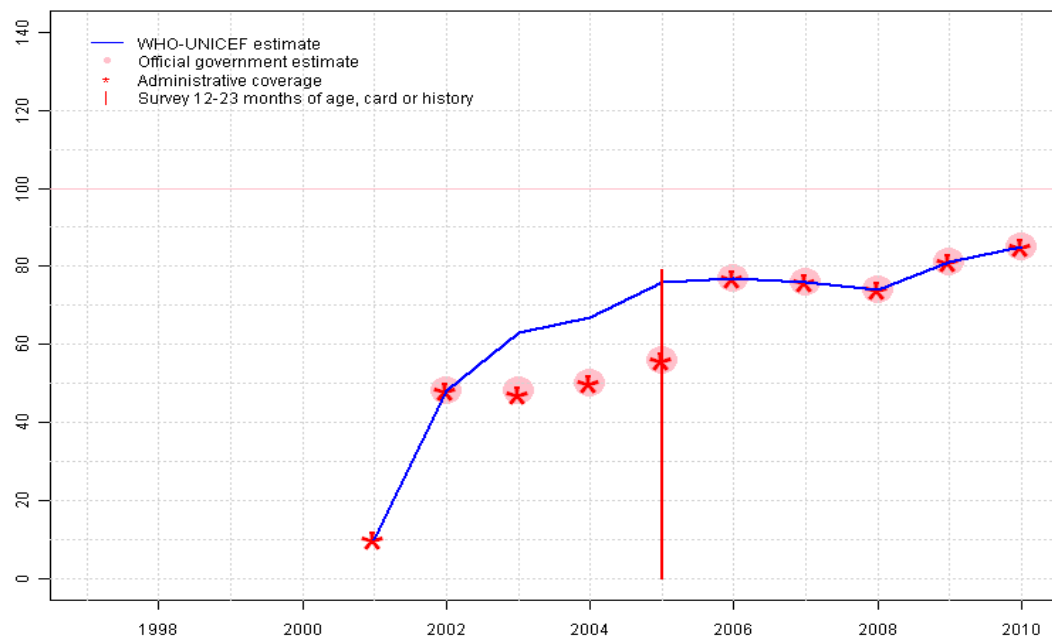
2009: Estimate based on reported data.

2010: Estimate based on reported data.

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Estimate	68	66	57	68	71	71	70	78	84	73	67	63	67	70
Official	68	66	57	62	60	76	47	49	50	73	67	63	67	70
Administrative	NA	NA	NA	62	61	56	47	49	51	73	67	63	67	70
Survey	NA	66	62	69	NA	NA	NA	NA	84	NA	NA	NA	NA	NA

Côte d'Ivoire - HepB3

CIV - HepB3



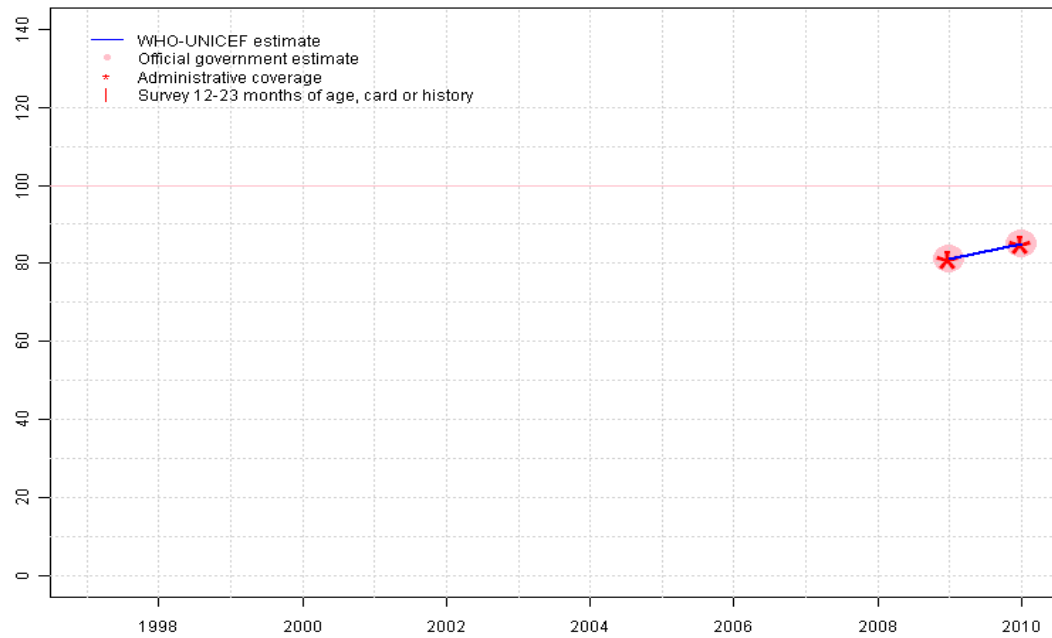
Description:

- 2001: Estimate is based on the reported data. HepB partially introduced in 1999 nationally in 2003 reporting started in 2001.
- 2002: Estimate is based on the reported data.
- 2003: DTP-Heb combination vaccine available nationally. Estimate based on DTP3 estimate. Current estimate of 63 percent changed from previous revision value of 76 percent.
- 2004: DTP-Heb combination vaccine available nationally. Estimate based on DTP3 estimate. Current estimate of 67 percent changed from previous revision value of 78 percent.
- 2005: Estimate based on survey results. 76 percent survey results does not support reported data of 56 percent. Survey results of 79 percent modified for recall bias to 76 percent based on 1st dose card or history coverage of 83 percent, 1st dose card only coverage of 72 percent and 3d dose card only coverage of 66 percent. Current estimate of 76 percent changed from previous revision value of 79 percent.
- 2006: The increase in reported coverage is attributable to revised denominator estimate.
- 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	NA	NA	NA	NA	10	48	63	67	76	77	76	74	81	85
Official	NA	NA	NA	NA	NA	48	48	50	56	77	76	74	81	85
Administrative	NA	NA	NA	NA	10	48	47	50	56	77	76	74	81	85
Survey	NA	NA	NA	NA	NA	NA	NA	NA	79	NA	NA	NA	NA	NA

Côte d'Ivoire - Hib3

CIV - Hib3



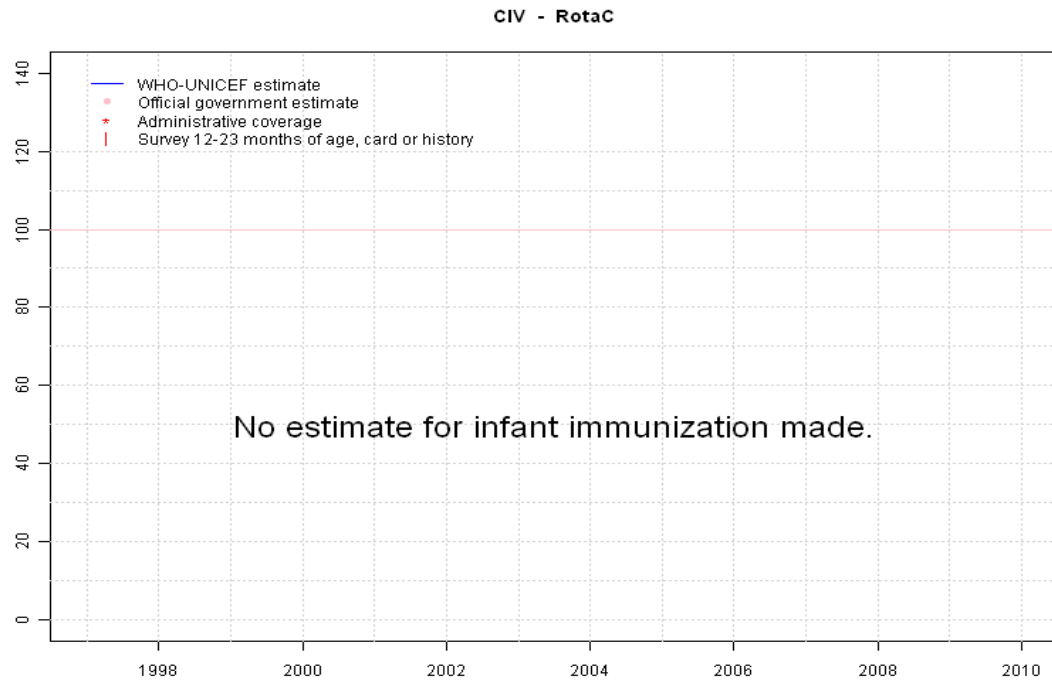
Description:

2009: Estimate based on reported data. Hib introduced in 2009 Vaccine presentation is DTP-HepB-Hib.

2010: Estimate based on reported data.

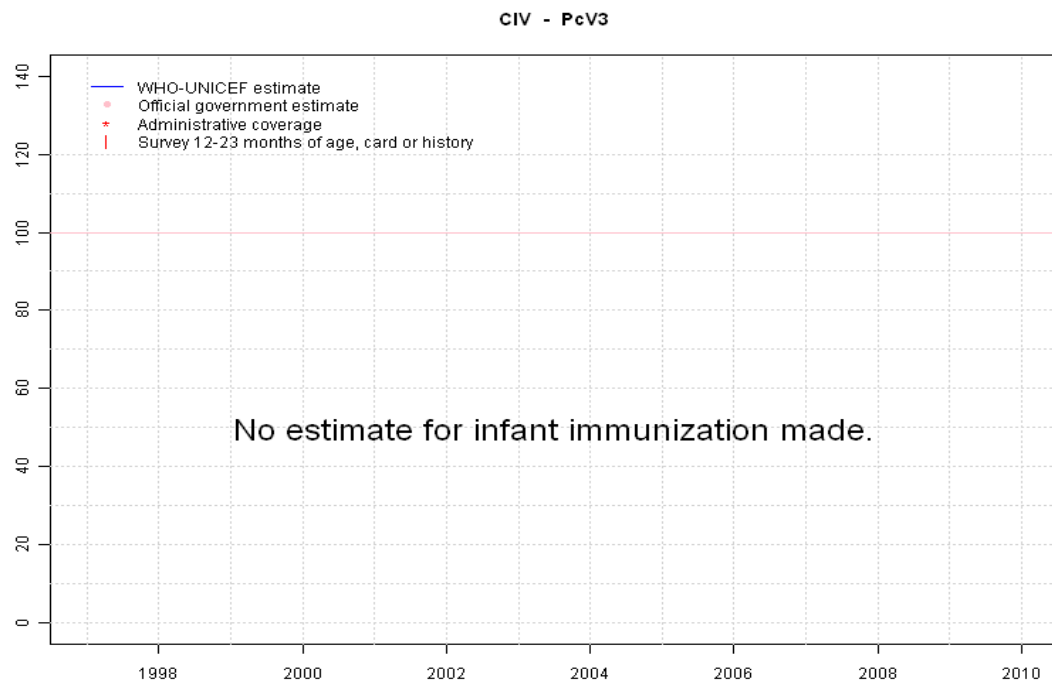
	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Estimate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	81	85
Official	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	81	85
Administrative	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	81	85
Survey	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Côte d'Ivoire - 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

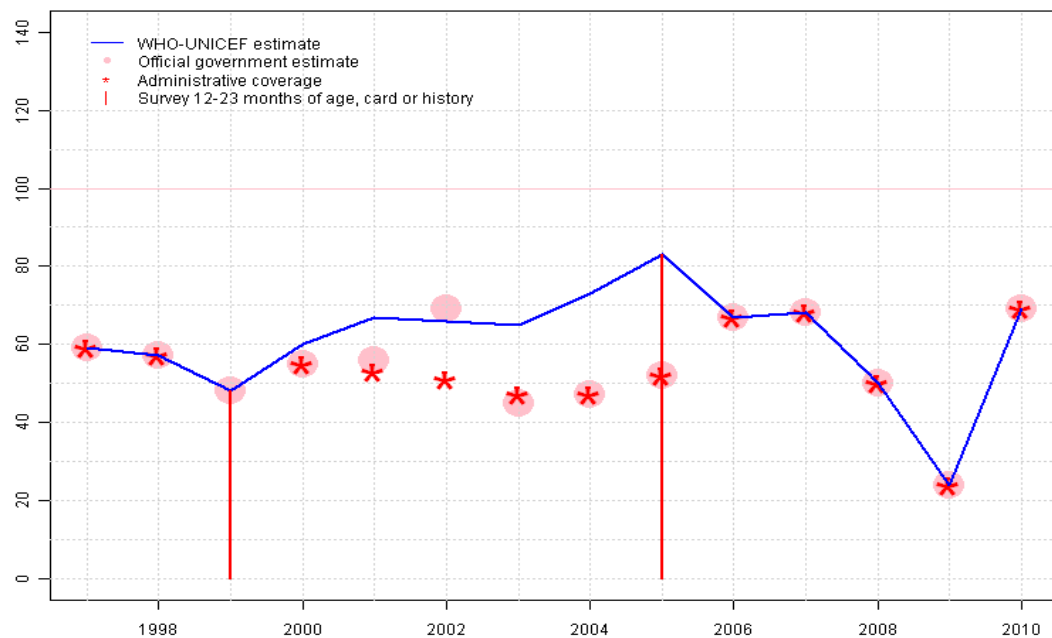
Côte d'Ivoire - PcV3



	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

Côte d'Ivoire - YFV

CIV - YFV



	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Estimate	59	57	48	60	67	66	65	73	83	67	68	50	24	69
Official	59	57	48	55	56	69	45	47	52	67	68	50	24	69
Administrative	59	57	NA	55	53	51	47	47	52	67	68	50	24	69
Survey	NA	NA	48	NA	NA	NA	NA	NA	83	NA	NA	NA	NA	NA

Description:

- 1997: Estimate is based on the reported data.
- 1998: Estimate is based on the reported data.
- 1999: Estimate based on reported data. 48 percent survey results supports reported data of 48 percent. Current estimate of 48 percent changed from previous revision value of 61 percent.
- 2000: Reported data calibrated to 1999 and 2005 levels. Current estimate of 60 percent changed from previous revision value of 64 percent.
- 2001: Reported data calibrated to 1999 and 2005 levels. Current estimate of 67 percent changed from previous revision value of 68 percent.
- 2002: Estimate based on interpolation between 2001 and 2003. Reported data not accepted due to an increase from 56 percent to 69 percent with a subsequent decrease to 45 percent. Current estimate of 66 percent changed from previous revision value of 72 percent.
- 2003: Reported data calibrated to 1999 and 2005 levels. Current estimate of 65 percent changed from previous revision value of 76 percent.
- 2004: Reported data calibrated to 1999 and 2005 levels. Current estimate of 73 percent changed from previous revision value of 79 percent.
- 2005: Estimate based on survey results. 83 percent survey results does not support reported data of 52 percent.
- 2006: The increase in reported coverage is attributable to revised denominator estimate.
- 2007: Estimate based on reported data.
- 2008: Estimate based on reported data.
- 2009: Estimate based on reported data. Ten-month vaccine stock-out reported.
- 2010: Estimate based on reported data. One-month vaccine stock-out reported.

Côte d'Ivoire - survey details

2005 Enquête par grappes à indicateurs multiples, Côte d'Ivoire, 2006

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	C or H <12 months	85	12-23 m	1751	73
BCG	Card	72	12-23 m	1751	73
BCG	Card or History	85	12-23 m	1751	73
BCG	History	13	12-23 m	1751	73
DTP1	C or H <12 months	81	12-23 m	1751	73
DTP1	Card	72	12-23 m	1751	73
DTP1	Card or History	83	12-23 m	1751	73
DTP1	History	11	12-23 m	1751	73
DTP3	C or H <12 months	74	12-23 m	1751	73
DTP3	Card	66	12-23 m	1751	73
DTP3	Card or History	79	12-23 m	1751	73
DTP3	History	12	12-23 m	1751	73
HepB1	Card or History	83	12-23 m	1751	73
HepB1	Card	72	12-23 m	1751	73
HepB1	History	11	12-23 m	1751	73
HepB1	C or H <12 months	81	12-23 m	1751	73
HepB3	Card	66	12-23 m	1751	73
HepB3	C or H <12 months	74	12-23 m	1751	73
HepB3	Card or History	79	12-23 m	1751	73
HepB3	History	12	12-23 m	1751	73
MCV	C or H <12 months	72	12-23 m	1751	73
MCV	Card	68	12-23 m	1751	73
MCV	Card or History	84	12-23 m	1751	73
MCV	History	16	12-23 m	1751	73
Pol1	Card	71	12-23 m	1751	73
Pol1	History	23	12-23 m	1751	73
Pol1	C or H <12 months	91	12-23 m	1751	73
Pol1	Card or History	94	12-23 m	1751	73
Pol3	C or H <12 months	76	12-23 m	1751	73
Pol3	Card	66	12-23 m	1751	73
Pol3	Card or History	81	12-23 m	1751	73
Pol3	History	15	12-23 m	1751	73
YFV	C or H <12 months	71	12-23 m	1751	73
YFV	History	9	12-23 m	1751	73
YFV	Card or History	83	12-23 m	1751	73

YFV Card 74 12-23 m 1751 73

2000 Revue externe du PEV 2001

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	Card or History	87	12-23 m	0	98
DTP1	Card or History	87	12-23 m	0	98
DTP3	Card or History	70	12-23 m	0	98
MCV	Card or History	69	12-23 m	0	98
Pol3	Card or History	70	12-23 m	0	98

1999 Côte d'Ivoire, Enquête à Indicateurs Multiples MICS 2000

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	Card or History	84	12-23 m	1588	77
BCG	History	13	12-23 m	1588	77
BCG	Card	71	12-23 m	1588	77
BCG	C or H <12 months	83	12-23 m	1588	77
DTP1	Card	70	12-23 m	1588	77
DTP1	Card or History	79	12-23 m	1588	77
DTP1	History	9	12-23 m	1588	77
DTP1	C or H <12 months	75	12-23 m	1588	77
DTP3	History	6	12-23 m	1588	77
DTP3	C or H <12 months	56	12-23 m	1588	77
DTP3	Card	56	12-23 m	1588	77
DTP3	Card or History	62	12-23 m	1588	77
MCV	Card	52	12-23 m	1588	77
MCV	History	10	12-23 m	1588	77
MCV	C or H <12 months	53	12-23 m	1588	77
MCV	Card or History	62	12-23 m	1588	77
Pol1	C or H <12 months	82	12-23 m	1588	77
Pol1	Card	71	12-23 m	1588	77
Pol1	Card or History	86	12-23 m	1588	77
Pol1	History	14	12-23 m	1588	77
Pol3	C or H <12 months	56	12-23 m	1588	77
Pol3	History	7	12-23 m	1588	77
Pol3	Card	55	12-23 m	1588	77

Côte d'Ivoire - survey details

Pol3	Card or History	62	12-23 m	1588	77
YFV	Card	47	12-23 m	1588	77
YFV	Card or History	48	12-23 m	1588	77
YFV	History	1	12-23 m	1588	77

1998 Enquête Démographique et de Santé, Côte d'Ivoire 1998-99, 2001

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	Card or History	84	12-23 m	439	73
BCG	Card	70	12-23 m	439	73
BCG	C or H <12 months	82	12-23 m	439	73
BCG	History	14	12-23 m	439	73
BCG	C or H <12 months	74	24-35 m	371	64
BCG	C or H <12 months	80	36-47 m	338	62
BCG	C or H <12 months	72	48-59 m	350	54
DTP1	Card or History	83	12-23 m	439	73
DTP1	Card	69	12-23 m	439	73
DTP1	C or H <12 months	80	12-23 m	439	73
DTP1	History	14	12-23 m	439	73
DTP1	C or H <12 months	75	24-35 m	371	64
DTP1	C or H <12 months	77	36-47 m	338	62
DTP1	C or H <12 months	73	48-59 m	350	54
DTP3	History	7	12-23 m	439	73
DTP3	C or H <12 months	55	12-23 m	439	73

DTP3	Card	54	12-23 m	439	73
DTP3	Card or History	61	12-23 m	439	73
DTP3	C or H <12 months	48	24-35 m	371	64
DTP3	C or H <12 months	50	36-47 m	338	62
DTP3	C or H <12 months	44	48-59 m	350	54
MCV	History	9	12-23 m	439	73
MCV	Card	57	12-23 m	439	73
MCV	Card or History	66	12-23 m	439	73
MCV	C or H <12 months	51	12-23 m	439	73
MCV	C or H <12 months	47	24-35 m	371	64
MCV	C or H <12 months	45	36-47 m	338	62
MCV	C or H <12 months	41	48-59 m	350	54
Pol1	Card	70	12-23 m	439	73
Pol1	C or H <12 months	82	12-23 m	439	73
Pol1	Card or History	86	12-23 m	439	73
Pol1	History	16	12-23 m	439	73
Pol1	C or H <12 months	77	24-35 m	371	64
Pol1	C or H <12 months	79	36-47 m	338	62
Pol1	C or H <12 months	78	48-59 m	350	54
Pol3	C or H <12 months	55	12-23 m	439	73
Pol3	Card	54	12-23 m	439	73
Pol3	Card or History	61	12-23 m	439	73
Pol3	History	7	12-23 m	439	73
Pol3	C or H <12 months	48	24-35 m	371	64
Pol3	C or H <12 months	48	36-47 m	338	62
Pol3	C or H <12 months	42	48-59 m	350	54

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

Côte d'Ivoire

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	54
1998	60
1999	71
2000	76
2001	76
2002	76
2003	76
2004	76
2005	75
2006	75
2007	74
2008	92
2009	92
2010	82

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.