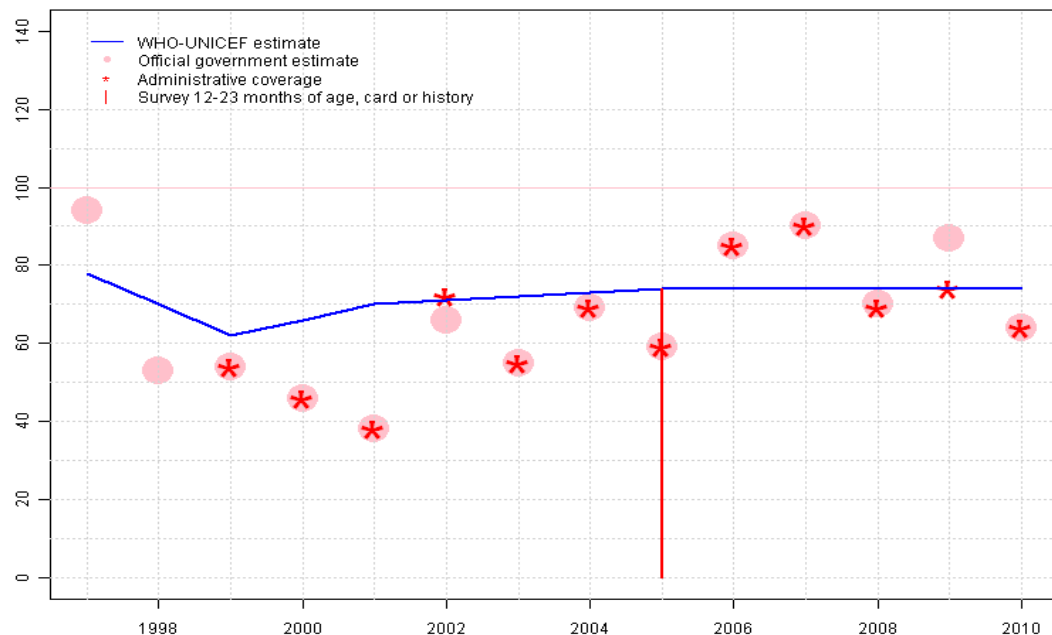


Central African Republic - BCG

CAF - BCG



	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Estimate	78	70	62	66	70	71	72	73	74	74	74	74	74	74
Official	94	53	54	46	38	66	55	69	59	85	90	70	87	64
Administrative	NA	NA	54	46	38	72	55	69	59	85	90	69	74	64
Survey	NA	NA	NA	NA	NA	NA	NA	NA	74	NA	NA	NA	NA	NA

Description:

1997: Legacy estimate.

1998: Estimate based on interpolation between 1997 and 1999. Estimate not based on reported data. Fluctuation in nationally reported data suggests poor recording and reporting. Current estimate of 70 percent changed from previous revision value of 71 percent.

1999: Based on survey results for children vaccinated by 12 months of age. Results for children vaccinated by 23 months not available. Estimate not based on reported data. Fluctuation in nationally reported data suggests poor recording and reporting.

2000: Estimate based on interpolation between 1999 and 2001. Fluctuation in nationally reported data suggests poor recording and reporting.

2001: Based on survey results for children vaccinated by 12 months of age. Results for children vaccinated by 23 months not available.

2002: Estimate based on interpolation between 2001 and 2005. Reported data not accepted due to an increase from 38 percent to 66 percent with a subsequent decrease to 55 percent. Immunization records prior to 2003 were compromised during 2002-2003 civil unrest. Fluctuation in nationally reported data suggests poor recording and reporting.

2003: Estimate based on interpolation between 2001 and 2005. Reported data not accepted due to a decline from 66 percent to 55 percent with a subsequent increase to 69 percent. Immunization records prior to 2003 were compromised during 2002-2003 civil unrest. Fluctuation in nationally reported data suggests poor recording and reporting.

2004: Estimate based on interpolation between 2001 and 2005. Immunization records prior to 2003 were compromised during 2002-2003 civil unrest. Fluctuation in nationally reported data suggests poor recording and reporting.

2005: Based on survey results for children vaccinated by 23 months of age.

2006: Estimate based on interpolation between 2005 and 2010. Fluctuations in reported data suggest poor quality administrative recording and reporting.

2007: Estimate based on interpolation between 2005 and 2010. Fluctuations in reported data suggest poor quality administrative recording and reporting.

2008: Estimate based on interpolation between 2005 and 2010. Reported data not accepted due to a decline from 90 percent to 70 percent with a subsequent increase to 87 percent. Fluctuations in reported data suggest poor quality administrative recording and reporting.

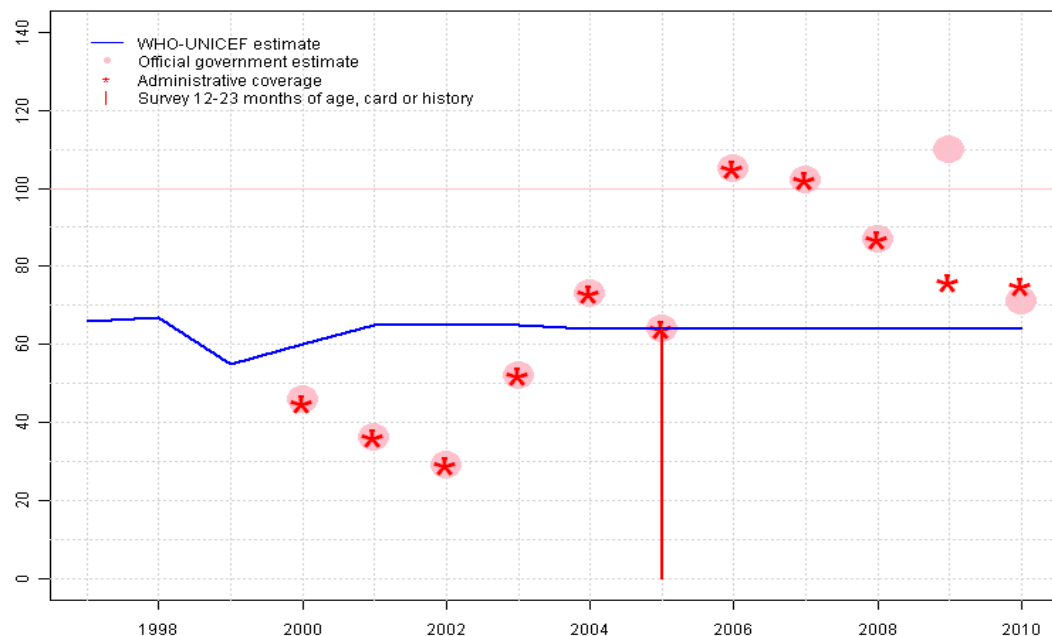
2009: Estimate based on interpolation between 2005 and 2010. Reported data not accepted due to an increase from 70 percent to 87 percent with a subsequent decrease to 64 percent. Fluctuations in reported data suggest poor quality administrative recording and reporting.

Central African Republic - BCG

2010: Based on survey results for children vaccinated by 23 months of age. Reported data not accepted due to a change from 87 level to 64 percent.

Central African Republic - DTP1

CAF - DTP1



	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Estimate	66	67	55	60	65	65	65	64	64	64	64	64	64	64
Official	NA	NA	NA	46	36	29	52	73	64	105	102	87	110	71
Administrative	NA	NA	NA	45	36	29	52	73	64	105	102	87	76	75
Survey	NA	NA	NA	NA	NA	NA	NA	NA	64	NA	NA	NA	NA	NA

Description:

1997: Legacy estimate.

1998: No DTP1 data. Estimate based on DTP3 coverage of 43. Current estimate of 67 percent changed from previous revision value of 61 percent.

1999: Based on survey results for children vaccinated by 12 months of age. Results for children vaccinated by 23 months not available.

2000: Estimate based on interpolation between 1999 and 2001. Fluctuation in nationally reported data suggests poor recording and reporting.

2001: Based on survey results for children vaccinated by 12 months of age. Results for children vaccinated by 23 months not available.

2002: Estimate based on interpolation between 2001 and 2005. Immunization records prior to 2003 were compromised during 2002-2003 civil unrest. Fluctuation in nationally reported data suggests poor recording and reporting.

2003: Estimate based on interpolation between 2001 and 2005. Immunization records prior to 2003 were compromised during 2002-2003 civil unrest. Fluctuation in nationally reported data suggests poor recording and reporting.

2004: Estimate based on interpolation between 2001 and 2005. Immunization records prior to 2003 were compromised during 2002-2003 civil unrest. Fluctuation in nationally reported data suggests poor recording and reporting.

2005: Based on survey results for children vaccinated by 23 months of age.

2006: Estimate based on interpolation between 2005 and 2010. Reported data of 105 percent greater than 100 percent. Fluctuations in reported data suggest poor quality administrative recording and reporting.

2007: Estimate based on interpolation between 2005 and 2010. Reported data of 102 percent greater than 100 percent. Fluctuations in reported data suggest poor quality administrative recording and reporting.

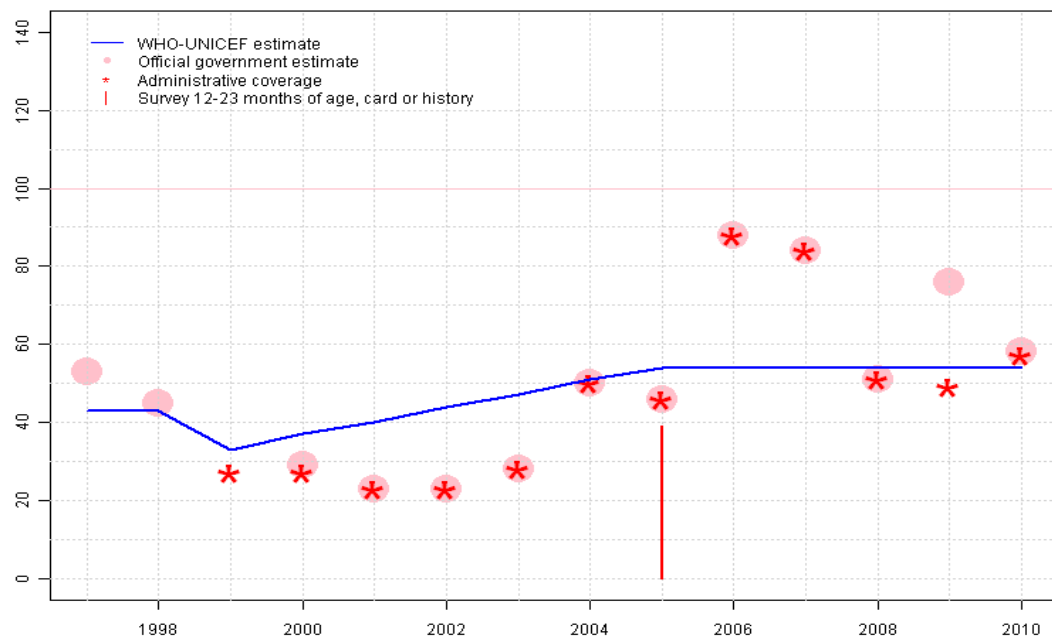
2008: Estimate based on interpolation between 2005 and 2010. Reported data not accepted due to a decline from 102 percent to 87 percent with a subsequent increase to 110 percent. Fluctuations in reported data suggest poor quality administrative recording and reporting.

2009: Estimate based on interpolation between 2005 and 2010. Reported data of 110 percent greater than 100 percent. Reported data not accepted due to an increase from 87 percent to 110 percent with a subsequent decrease to 71 percent. Fluctuations in reported data suggest poor quality administrative recording and reporting.

2010: Based on survey results for children vaccinated by 23 months of age. Reported data not accepted due to a change from 110 level to 71 percent.

Central African Republic - DTP3

CAF - DTP3



	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Estimate	43	43	33	37	40	44	47	51	54	54	54	54	54	54
Official	53	45	NA	29	23	23	28	50	46	88	84	51	76	58
Administrative	NA	NA	27	27	23	23	28	50	46	88	84	51	49	57
Survey	NA	NA	NA	NA	NA	NA	NA	NA	39	NA	NA	NA	NA	NA

Description:

1997: Legacy estimate.

1998: Reported data calibrated to 1997 and 1999 levels. Current estimate of 43 percent changed from previous revision value of 42 percent.

1999: Based on survey results for children vaccinated by 12 months of age. Results for children vaccinated by 23 months not available.

2000: Estimate based on interpolation between 1999 and 2001. Fluctuation in nationally reported data suggests poor recording and reporting.

2001: Based on survey results for children vaccinated by 12 months of age. Results for children vaccinated by 23 months not available.

2002: Estimate based on interpolation between 2001 and 2005. Immunization records prior to 2003 were compromised during 2002-2003 civil unrest. Fluctuation in nationally reported data suggests poor recording and reporting.

2003: Estimate based on interpolation between 2001 and 2005. Immunization records prior to 2003 were compromised during 2002-2003 civil unrest. Fluctuation in nationally reported data suggests poor recording and reporting.

2004: Estimate based on interpolation between 2001 and 2005. Immunization records prior to 2003 were compromised during 2002-2003 civil unrest. Fluctuation in nationally reported data suggests poor recording and reporting.

2005: Based on survey results for children vaccinated by 23 months of age. Survey results of 39 percent modified for recall bias to 54 percent based on 1st dose card or history coverage of 64 percent, 1st dose card only coverage of 32 percent and 3d dose card only coverage of 27 percent.

2006: Estimate based on interpolation between 2005 and 2010. Fluctuations in reported data suggest poor quality administrative recording and reporting.

2007: Estimate based on interpolation between 2005 and 2010. Fluctuations in reported data suggest poor quality administrative recording and reporting.

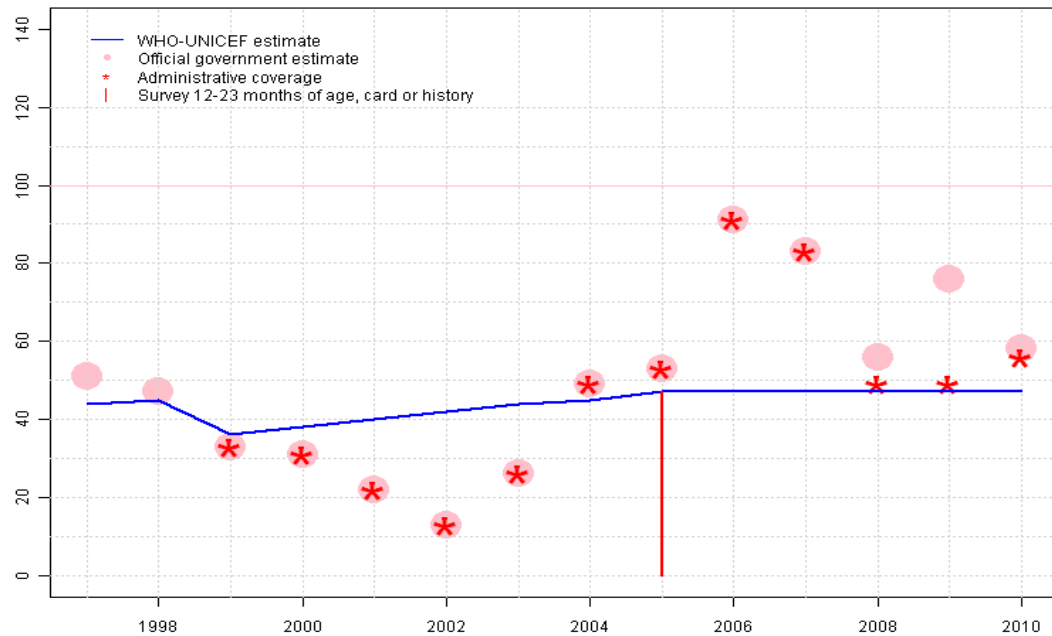
2008: Estimate based on interpolation between 2005 and 2010. Reported data not accepted due to a decline from 84 percent to 51 percent with a subsequent increase to 76 percent. Fluctuations in reported data suggest poor quality administrative recording and reporting.

2009: Estimate based on interpolation between 2005 and 2010. Reported data not accepted due to an increase from 51 percent to 76 percent with a subsequent decrease to 58 percent. Fluctuations in reported data suggest poor quality administrative recording and reporting.

2010: Based on survey results for children vaccinated by 23 months of age. Reported data not accepted due to a change from 76 level to 58 percent.

Central African Republic - Pol3

CAF - Pol3



	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Estimate	44	45	36	38	40	42	44	45	47	47	47	47	47	47
Official	51	47	33	31	22	13	26	49	53	91	83	56	76	58
Administrative Survey	NA	NA	33	31	22	13	26	49	53	91	83	49	49	56
Survey	NA	NA	NA	NA	NA	NA	NA	NA	47	NA	NA	NA	NA	NA

Description:

1997: Legacy estimate.

1998: Reported data calibrated to 1997 and 1999 levels. Current estimate of 45 percent changed from previous revision value of 44 percent.

1999: Based on survey results for children vaccinated by 12 months of age. Results for children vaccinated by 23 months not available.

2000: Estimate based on interpolation between 1999 and 2001. Fluctuation in nationally reported data suggests poor recording and reporting.

2001: Based on survey results for children vaccinated by 12 months of age. Results for children vaccinated by 23 months not available.

2002: Estimate based on interpolation between 2001 and 2005. Immunization records prior to 2003 were compromised during 2002-2003 civil unrest. Fluctuation in nationally reported data suggests poor recording and reporting.

2003: Estimate based on interpolation between 2001 and 2005. Immunization records prior to 2003 were compromised during 2002-2003 civil unrest. Fluctuation in nationally reported data suggests poor recording and reporting.

2004: Estimate based on interpolation between 2001 and 2005. Immunization records prior to 2003 were compromised during 2002-2003 civil unrest. Fluctuation in nationally reported data suggests poor recording and reporting.

2005: Based on survey results for children vaccinated by 23 months of age. Survey results of 47 percent modified for recall bias to 68 percent based on 1st dose card or history coverage of 81 percent, 1st dose card only coverage of 32 percent and 3d dose card only coverage of 27 percent.

2006: Estimate based on interpolation between 2005 and 2010. Fluctuations in reported data suggest poor quality administrative recording and reporting.

2007: Estimate based on interpolation between 2005 and 2010. Fluctuations in reported data suggest poor quality administrative recording and reporting.

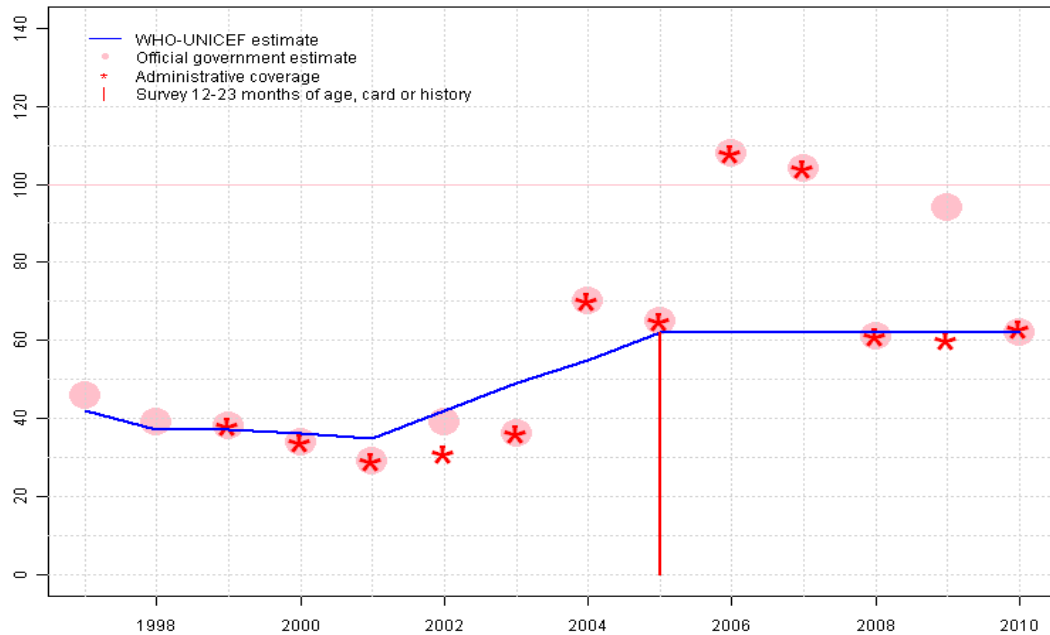
2008: Estimate based on interpolation between 2005 and 2010. Reported data not accepted due to a decline from 83 percent to 56 percent with a subsequent increase to 76 percent. Fluctuations in reported data suggest poor quality administrative recording and reporting.

2009: Estimate based on interpolation between 2005 and 2010. Reported data not accepted due to an increase from 56 percent to 76 percent with a subsequent decrease to 58 percent. Fluctuations in reported data suggest poor quality administrative recording and reporting.

2010: Based on survey results for children vaccinated by 23 months of age. Reported data not accepted due to a change from 76 level to 58 percent.

Central African Republic - MCV

CAF - MCV



	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Estimate	42	37	37	36	35	42	49	55	62	62	62	62	62	62
Official	46	39	38	34	29	39	36	70	65	108	104	61	94	62
Administrative	NA	NA	38	34	29	31	36	70	65	108	104	61	60	63
Survey	NA	NA	NA	NA	NA	NA	NA	NA	62	NA	NA	NA	NA	NA

Description:

1997: Legacy estimate.

1998: Reported data calibrated to 1997 and 1999 levels. Current estimate of 37 percent changed from previous revision value of 41 percent.

1999: Based on survey results for children vaccinated by 12 months of age. Results for children vaccinated by 23 months not available.

2000: Estimate based on interpolation between 1999 and 2001. Fluctuation in nationally reported data suggests poor recording and reporting.

2001: Based on survey results for children vaccinated by 12 months of age. Results for children vaccinated by 23 months not available.

2002: Estimate based on interpolation between 2001 and 2005. Immunization records prior to 2003 were compromised during 2002-2003 civil unrest. Fluctuation in nationally reported data suggests poor recording and reporting.

2003: Estimate based on interpolation between 2001 and 2005. Immunization records prior to 2003 were compromised during 2002-2003 civil unrest. Fluctuation in nationally reported data suggests poor recording and reporting.

2004: Estimate based on interpolation between 2001 and 2005. Immunization records prior to 2003 were compromised during 2002-2003 civil unrest. Fluctuation in nationally reported data suggests poor recording and reporting.

2005: Based on survey results for children vaccinated by 23 months of age.

2006: Estimate based on interpolation between 2005 and 2010. Reported data of 108 percent greater than 100 percent. Fluctuations in reported data suggest poor quality administrative recording and reporting.

2007: Estimate based on interpolation between 2005 and 2010. Reported data of 104 percent greater than 100 percent. Fluctuations in reported data suggest poor quality administrative recording and reporting.

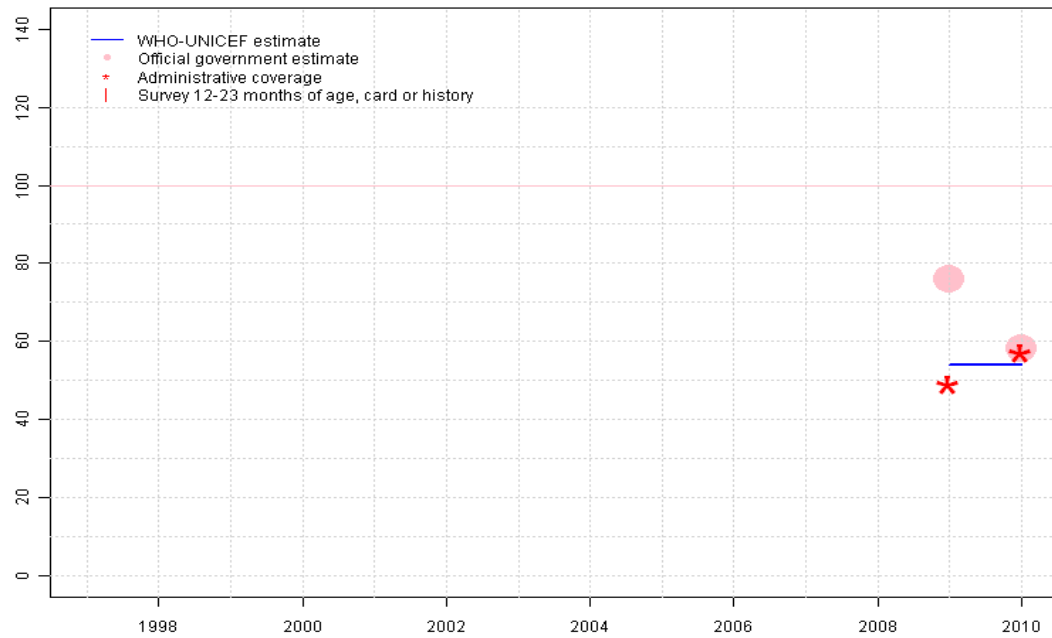
2008: Estimate based on interpolation between 2005 and 2010. Reported data not accepted due to a decline from 104 percent to 61 percent with a subsequent increase to 94 percent. Fluctuations in reported data suggest poor quality administrative recording and reporting.

2009: Estimate based on interpolation between 2005 and 2010. Reported data not accepted due to an increase from 61 percent to 94 percent with a subsequent decrease to 62 percent. Fluctuations in reported data suggest poor quality administrative recording and reporting.

2010: Based on survey results for children vaccinated by 23 months of age. Reported data not accepted due to a change from 94 level to 62 percent.

Central African Republic - HepB3

CAF - HepB3



Description:

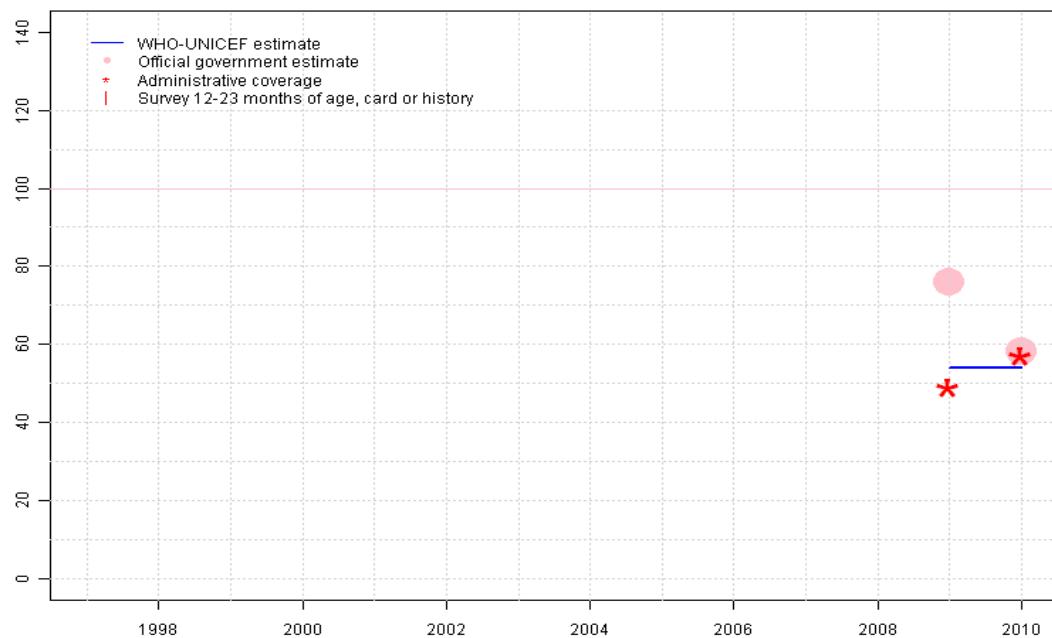
2009: Estimate follows DTP3 coverage levels. HepB introduced in 2008. Reporting started in 2009. Vaccine presentation is DTP-HepB-Hib. Fluctuations in reported data suggest poor quality administrative recording and reporting.

2010: Estimate follows DTP3 coverage levels. Reported data not accepted due to a decline from 76 level to 58 percent.

	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	54	54
Official	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	76	58
Administrative	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	49	57
Survey	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Central African Republic - Hib3

CAF - Hib3



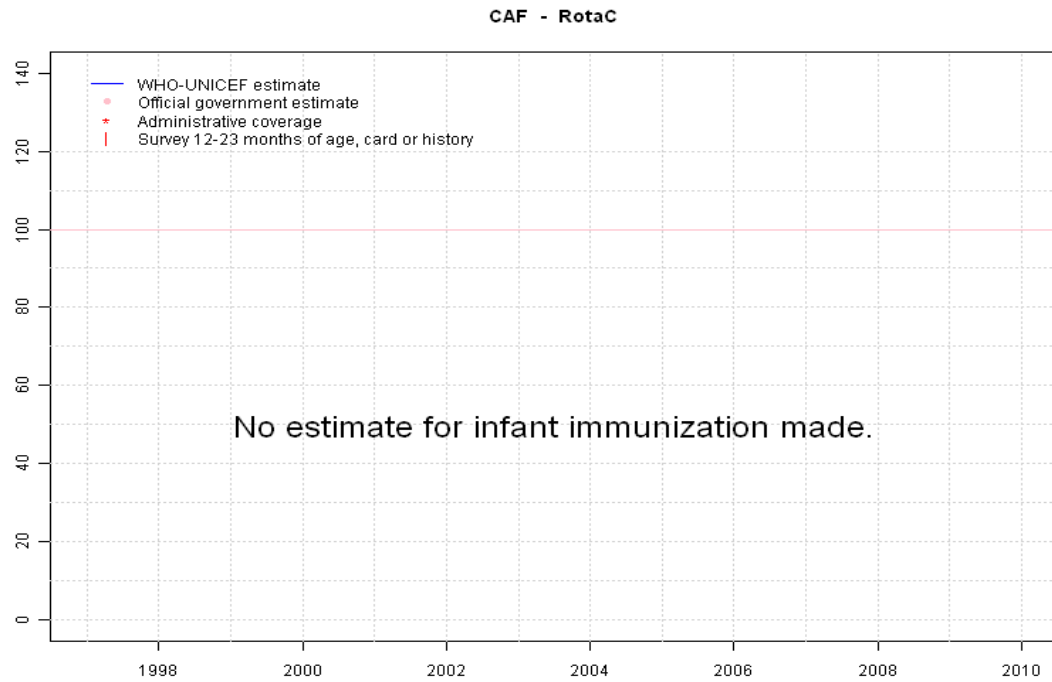
Description:

2009: Estimate follows DTP3 coverage levels. Hib introduced in 2008. Reporting started in 2009. Vaccine presentation is DTP-HepB-Hib. Fluctuations in reported data suggest poor quality administrative recording and reporting.

2010: Estimate follows DTP3 coverage levels. Reported data not accepted due to a decline from 76 level to 58 percent.

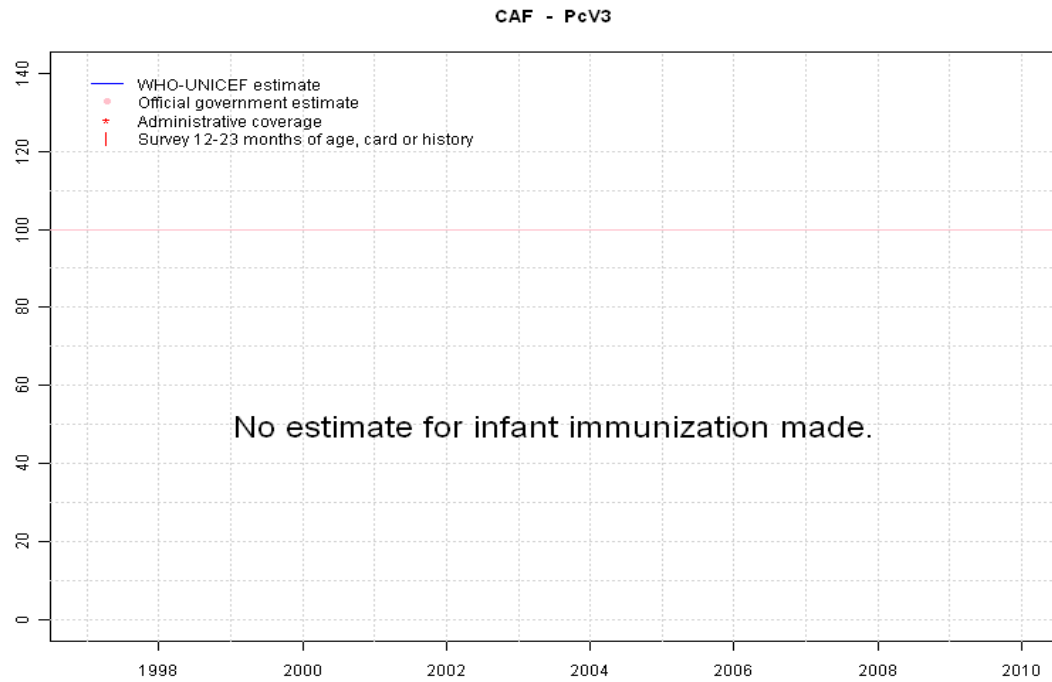
	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Estimate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	54	54
Official	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	76	58
Administrative	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	49	57
Survey	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Central African Republic - 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

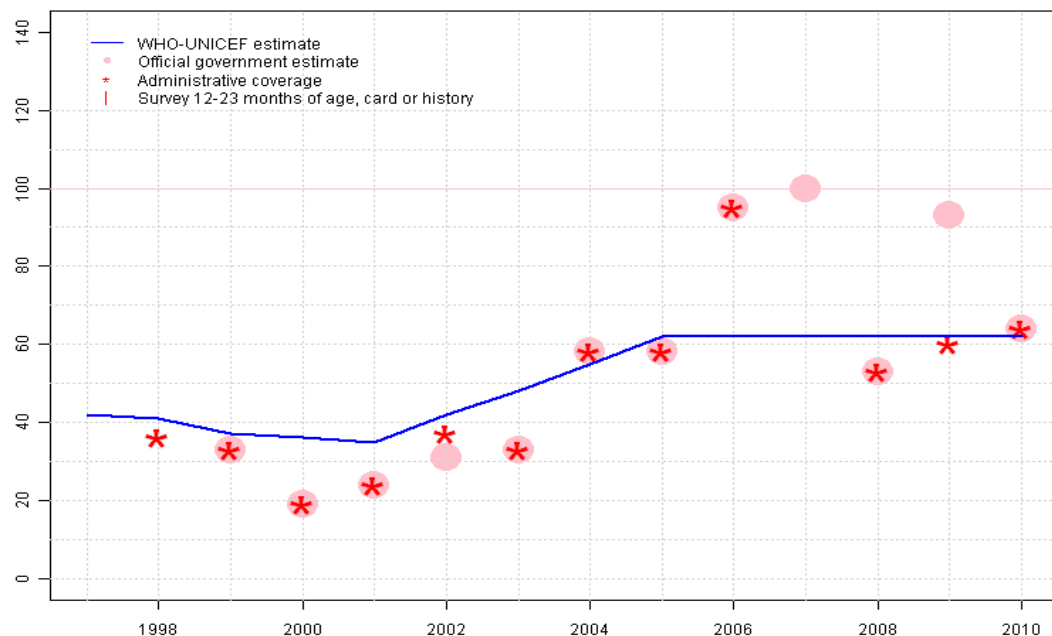
Central African Republic - PcV3



	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

Central African Republic - YFV

CAF - YFV



	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Estimate	42	41	37	36	35	42	48	55	62	62	62	62	62	62
Official	NA	NA	33	19	24	31	33	58	58	95	100	53	93	64
Administrative	NA	36	33	19	24	37	33	58	58	95	NA	53	60	64
Survey	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Description:

- 1997: Estimate follows MCV coverage levels.
- 1998: Estimate follows MCV coverage levels.
- 1999: Estimate follows MCV coverage levels.
- 2000: Estimate follows MCV coverage levels. Fluctuation in nationally reported data suggests poor recording and reporting.
- 2001: Estimate follows MCV coverage levels.
- 2002: Estimate follows MCV coverage levels. Immunization records prior to 2003 were compromised during 2002-2003 civil unrest. Fluctuation in nationally reported data suggests poor recording and reporting.
- 2003: Estimate follows MCV coverage levels. Immunization records prior to 2003 were compromised during 2002-2003 civil unrest. Fluctuation in nationally reported data suggests poor recording and reporting. Current estimate of 48 percent changed from previous revision value of 49 percent.
- 2004: Estimate follows MCV coverage levels. Immunization records prior to 2003 were compromised during 2002-2003 civil unrest. Fluctuation in nationally reported data suggests poor recording and reporting.
- 2005: Estimate follows MCV coverage levels.
- 2006: Estimate follows MCV coverage levels. Fluctuations in reported data suggest poor quality administrative recording and reporting.
- 2007: Estimate follows MCV coverage levels. Fluctuations in reported data suggest poor quality administrative recording and reporting.
- 2008: Estimate follows MCV coverage levels. Reported data not accepted due to a decline from 100 percent to 53 percent with a subsequent increase to 93 percent. Fluctuations in reported data suggest poor quality administrative recording and reporting.
- 2009: Estimate based on extrapolation from 2008 value of 62 percent. Reported data not accepted due to an increase from 53 percent to 93 percent with a subsequent decrease to 64 percent. Fluctuations in reported data suggest poor quality administrative recording and reporting.
- 2010: Estimate based on extrapolation from 2008 value of 62 percent. Reported data not accepted due to a change from 93 level to 64 percent.

Central African Republic - survey details

2005 République Centrafricaine, Enquête par Grappe à Indicateurs Multiples, couplée avec la Sérologie VIH et Anémie, 2006

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	Card	34	12-23 m	1844	37
BCG	History	40	12-23 m	1844	37
BCG	Card or History	74	12-23 m	1844	37
BCG	C or H <12 months	71	12-23 m	1844	37
DTP1	Card	32	12-23 m	1844	37
DTP1	History	32	12-23 m	1844	37
DTP1	Card or History	64	12-23 m	1844	37
DTP1	C or H <12 months	60	12-23 m	1844	37
DTP3	C or H <12 months	34	12-23 m	1844	37
DTP3	Card	27	12-23 m	1844	37
DTP3	History	12	12-23 m	1844	37
DTP3	Card or History	39	12-23 m	1844	37
MCV	C or H <12 months	50	12-23 m	1844	37
MCV	Card or History	62	12-23 m	1844	37
MCV	History	34	12-23 m	1844	37
MCV	Card	28	12-23 m	1844	37
Pol1	Card	32	12-23 m	1844	37
Pol1	Card or History	81	12-23 m	1844	37
Pol1	C or H <12 months	75	12-23 m	1844	37
Pol1	History	48	12-23 m	1844	37
Pol3	Card or History	47	12-23 m	1844	37
Pol3	C or H <12 months	40	12-23 m	1844	37
Pol3	History	20	12-23 m	1844	37

Pol3 Card 27 12-23 m 1844 37

2001 Rapport Final de la Revue externe du PEV en Republique Centrafricaine 2002

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	C or H <12 months	70	12-23 m	0	58
DTP1	C or H <12 months	65	12-23 m	0	58
DTP3	C or H <12 months	40	12-23 m	0	58
MCV	C or H <12 months	35	12-23 m	0	58
Pol1	C or H <12 months	63	12-23 m	0	58
Pol3	C or H <12 months	40	12-23 m	0	58

1999 Enquête à Indicateurs Multiples en Republique Centrafricaine, 2000

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	C or H <12 months	62	12-23 m	2932	39
DTP1	C or H <12 months	55	12-23 m	2932	39
DTP3	C or H <12 months	33	12-23 m	2932	39
MCV	C or H <12 months	37	12-23 m	2932	39
Pol1	C or H <12 months	66	12-23 m	2932	39
Pol3	C or H <12 months	36	12-23 m	2932	39

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

Central African Republic

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	29
1998	24
1999	38
2000	36
2001	34
2002	31
2003	32
2004	35
2005	48
2006	52
2007	54
2008	86
2009	86
2010	86

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.