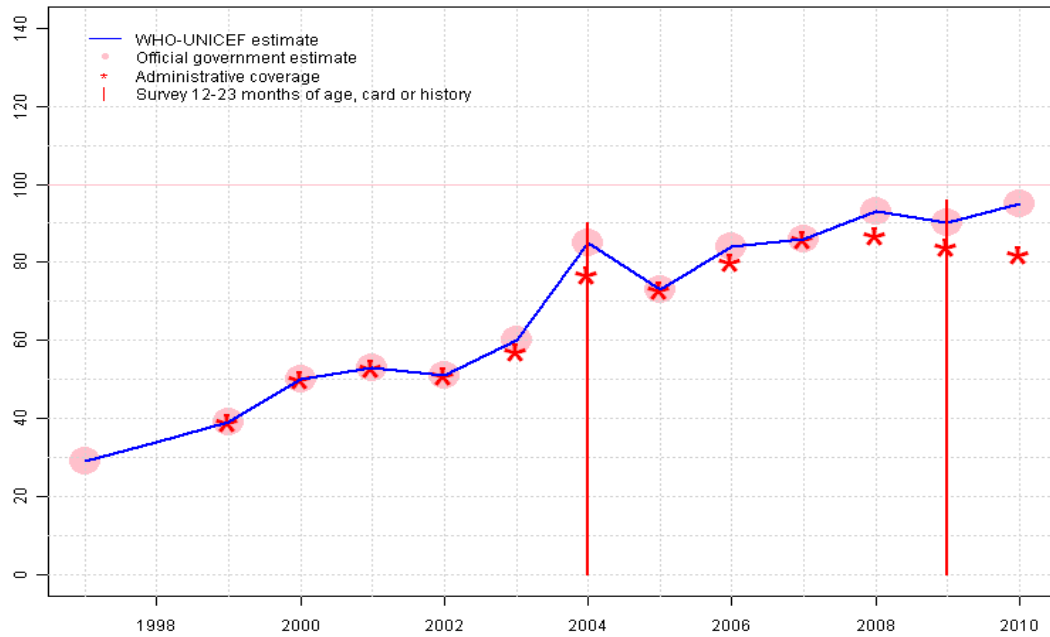


# Congo - BCG

COG - BCG



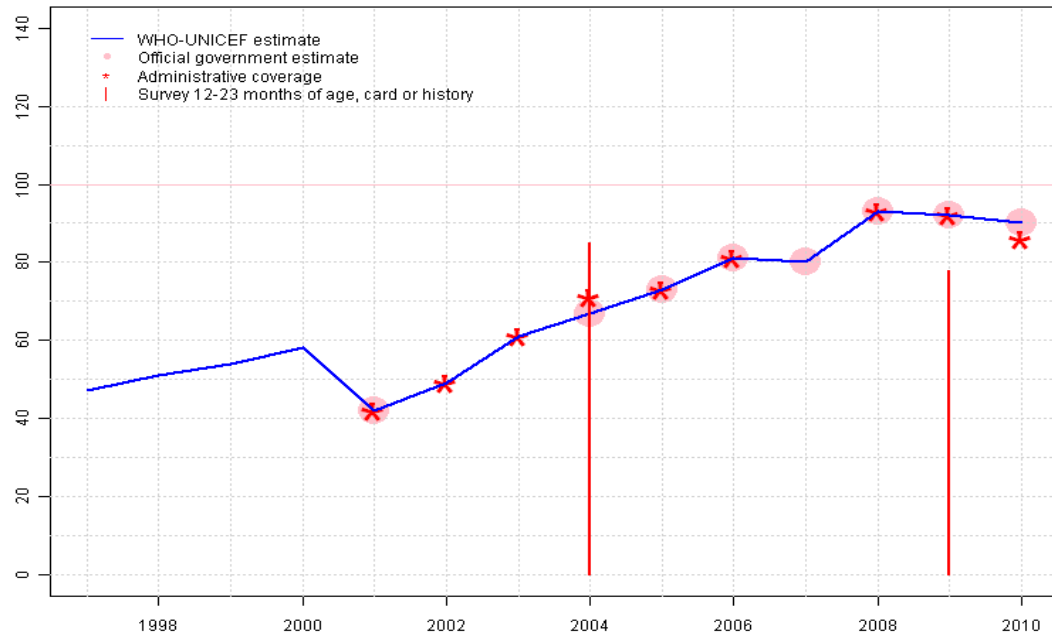
## Description:

- 1997: Legacy estimate.
- 1998: Estimate based on interpolation between 1997 and 1999.
- 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. 90 percent survey results supports reported data of 85 percent. Survey supports reported for all other antigens.
- 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. Survey results not accepted. Sample size 0 less than 300.
- 2010: Estimate based on reported data. The government estimate includes immunizations delivered in both the public and private sector.

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Estimate	29	34	39	50	53	51	60	85	73	84	86	93	90	95
Official	29	NA	39	50	53	51	60	85	73	84	86	93	90	95
Administrative	NA	NA	39	50	53	51	57	77	73	80	86	87	84	82
Survey	NA	NA	NA	NA	NA	NA	NA	90	NA	NA	NA	NA	96	NA

# Congo - DTP1

COG - DTP1



## Description:

1997: Legacy estimate.

1998: Estimate based on interpolation between 1997 and 1999. Current estimate of 51 percent changed from previous revision value of 46 percent.

1999: No DTP1 data. Estimate based on DTP3 coverage of 29. Current estimate of 54 percent changed from previous revision value of 46 percent.

2000: No DTP1 data. Estimate based on DTP3 coverage of 33. Current estimate of 58 percent changed from previous revision value of 45 percent.

2001: Reported data calibrated to 1997 and 2004 levels. Current estimate of 42 percent changed from previous revision value of 44 percent.

2002: Reported data calibrated to 1997 and 2004 levels. Current estimate of 49 percent changed from previous revision value of 50 percent.

2003: Reported data calibrated to 1997 and 2004 levels. Current estimate of 61 percent changed from previous revision value of 62 percent.

2004: Survey suggests higher level of coverage than nationally reported coverage. Survey supports reported data for other antigens.

2005: Estimate based on reported data.

2006: Estimate based on reported data.

2007: Estimate based on reported data.

2008: Estimate based on reported data.

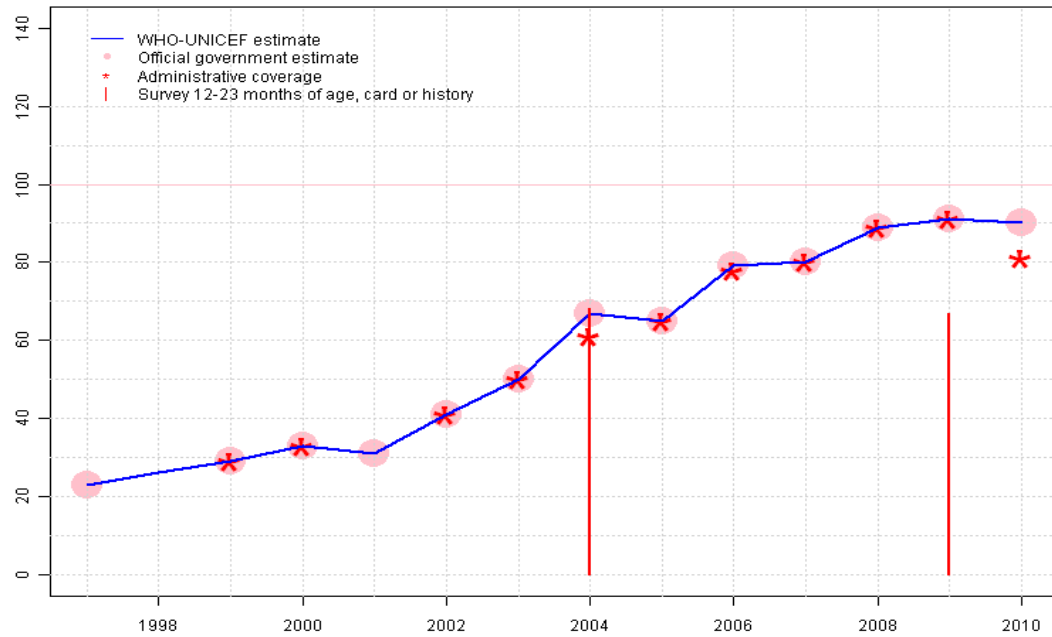
2009: Estimate based on reported data. Survey results not accepted. Sample size 0 less than 300.

2010: Estimate based on reported data. The government estimate includes immunizations delivered in both the public and private sector.

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Estimate	47	51	54	58	42	49	61	67	73	81	80	93	92	90
Official	NA	NA	NA	NA	42	NA	NA	67	73	81	80	93	92	90
Administrative	NA	NA	NA	NA	42	49	61	71	73	81	NA	93	92	86
Survey	NA	NA	NA	NA	NA	NA	NA	85	NA	NA	NA	NA	78	NA

# Congo - DTP3

COG - DTP3



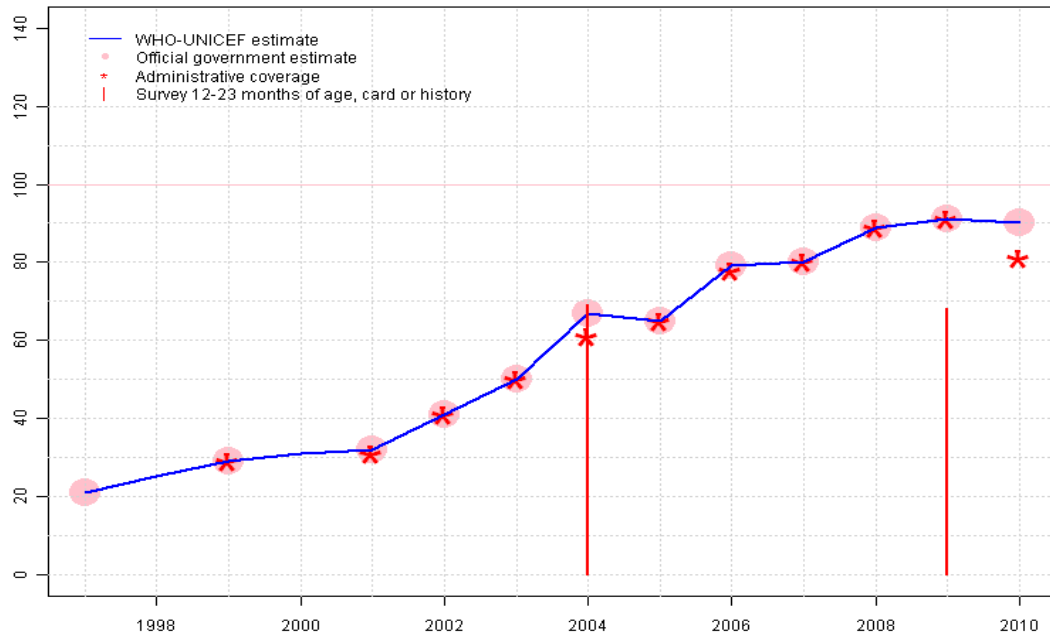
## Description:

- 1997: Legacy estimate.
- 1998: Estimate based on interpolation between 1997 and 1999.
- 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. 75 percent survey results supports reported data of 67 percent. Survey results of 68 percent modified for recall bias to 75 percent based on 1st dose card or history coverage of 85 percent, 1st dose card only coverage of 59 percent and 3d dose card only coverage of 52 percent.
- 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. Survey results not accepted. Sample size 0 less than 300.
- 2010: Estimate based on reported data. The government estimate includes immunizations delivered in both the public and private sector.

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Estimate	23	26	29	33	31	41	50	67	65	79	80	89	91	90
Official	23	NA	29	33	31	41	50	67	65	79	80	89	91	90
Administrative	NA	NA	29	33	NA	41	50	61	65	78	80	89	91	81
Survey	NA	NA	NA	NA	NA	NA	NA	68	NA	NA	NA	NA	67	NA

# Congo - Pol3

COG - Pol3



## Description:

1997: Legacy estimate.

1998: Estimate based on interpolation between 1997 and 1999.

1999: Estimate based on reported data.

2000: Estimate based on interpolation between 1999 and 2001.

2001: Estimate based on reported data.

2002: Estimate based on reported data.

2003: Estimate based on reported data.

2004: Survey suggests higher level of coverage than nationally reported coverage. Survey supports reported data for other antigens. Survey results of 69 percent modified for recall bias to 80 percent based on 1st dose card or history coverage of 93 percent, 1st dose card only coverage of 59 percent and 3d dose card only coverage of 51 percent.

2005: Estimate based on reported data.

2006: Estimate based on reported data.

2007: Estimate based on reported data.

2008: Estimate based on reported data.

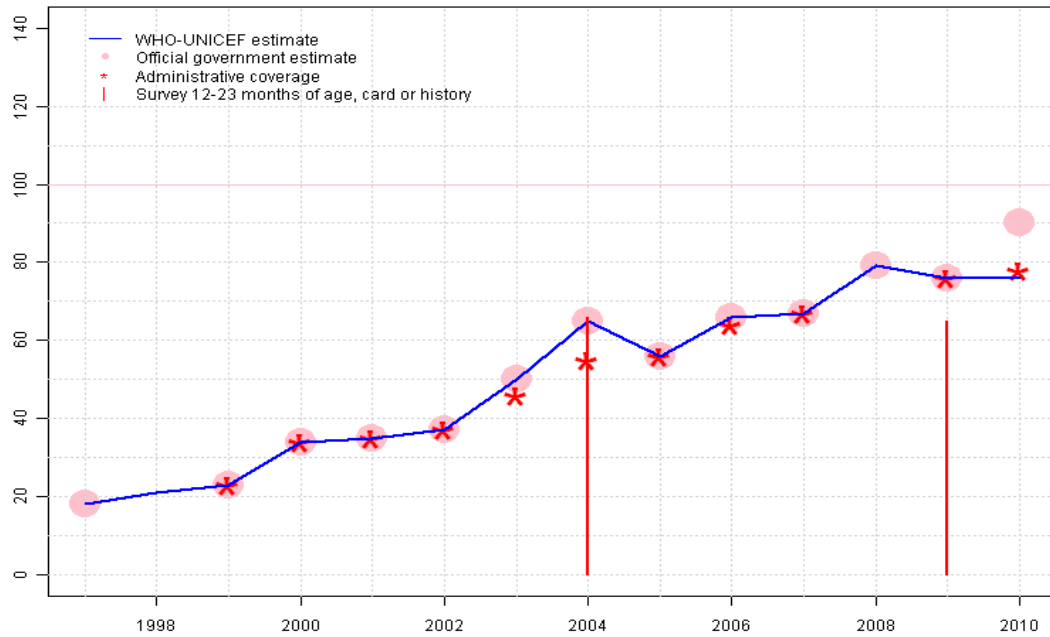
2009: Estimate based on reported data. Survey results not accepted. Sample size 0 less than 300.

2010: Estimate based on reported data. The government estimate includes immunizations delivered in both the public and private sector.

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Estimate	21	25	29	31	32	41	50	67	65	79	80	89	91	90
Official	21	NA	29	NA	32	41	50	67	65	79	80	89	91	90
Administrative	NA	NA	29	NA	31	41	50	61	65	78	80	89	91	81
Survey	NA	NA	NA	NA	NA	NA	NA	69	NA	NA	NA	NA	68	NA

# Congo - MCV

COG - MCV



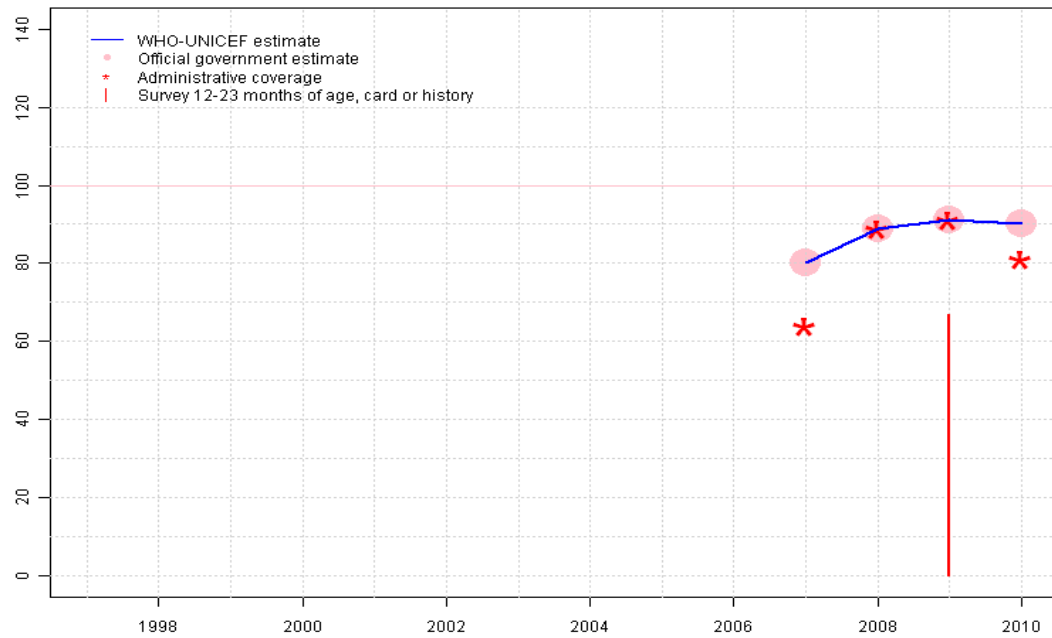
## Description:

- 1997: Legacy estimate.
- 1998: Estimate based on interpolation between 1997 and 1999.
- 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. 66 percent survey results supports reported data of 65 percent.
- 2005: Estimate based on reported data.
- 2006: Estimate based on reported data.
- 2007: Estimate based on reported data.
- 2008: Estimate based on reported data. All other antigens show significant increase.
- 2009: Estimate based on reported data. Survey results not accepted. Sample size 0 less than 300.
- 2010: Estimate based on extrapolation from 2009 value of 76 percent. Reported data not accepted due to a change from 76 level to 90 percent. The government estimate includes immunizations delivered in both the public and private sector.

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Estimate	18	21	23	34	35	37	50	65	56	66	67	79	76	76
Official	18	NA	23	34	35	37	50	65	56	66	67	79	76	90
Administrative	NA	NA	23	34	35	37	46	55	56	64	67	NA	76	78
Survey	NA	NA	NA	NA	NA	NA	NA	66	NA	NA	NA	NA	65	NA

# Congo - HepB3

COG - HepB3



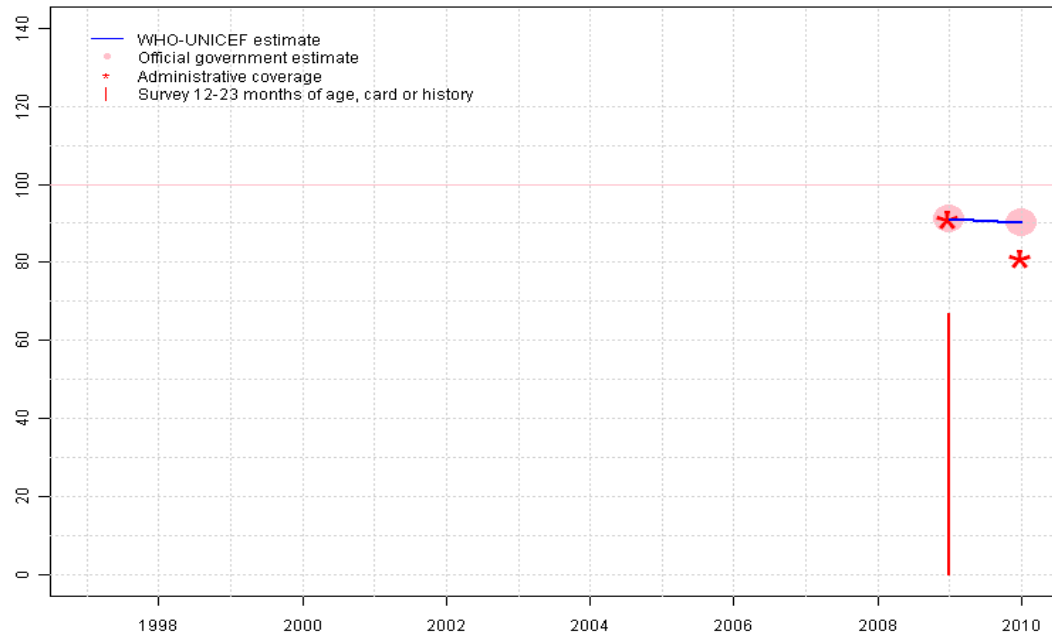
## Description:

- 2007: Estimate based on reported data. HepB introduced in 2007
- 2008: Estimate based on reported data.
- 2009: Estimate based on reported data. Survey results not accepted. Sample size 0 less than 300.
- 2010: Estimate based on reported data. The government estimate includes immunizations delivered in both the public and private sector.

	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	80	89	91	90
Official	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	80	89	91	90
Administrative	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	64	89	91	81
Survey	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	67	NA

# Congo - Hib3

COG - Hib3



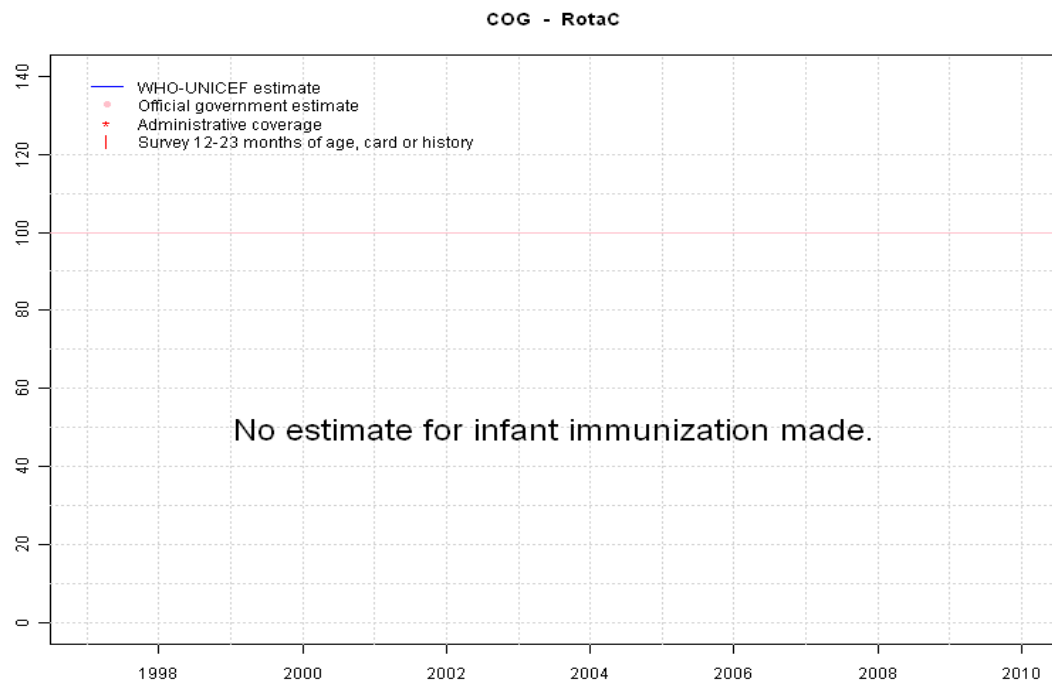
## Description:

2009: Estimate based on reported data. Survey results not accepted. Sample size 0 less than 300. Hib introduced in 2009 Vaccine presentation is DTP-HepB-Hib.

2010: Estimate based on reported data. The government estimate includes immunizations delivered in both the public and private sector.

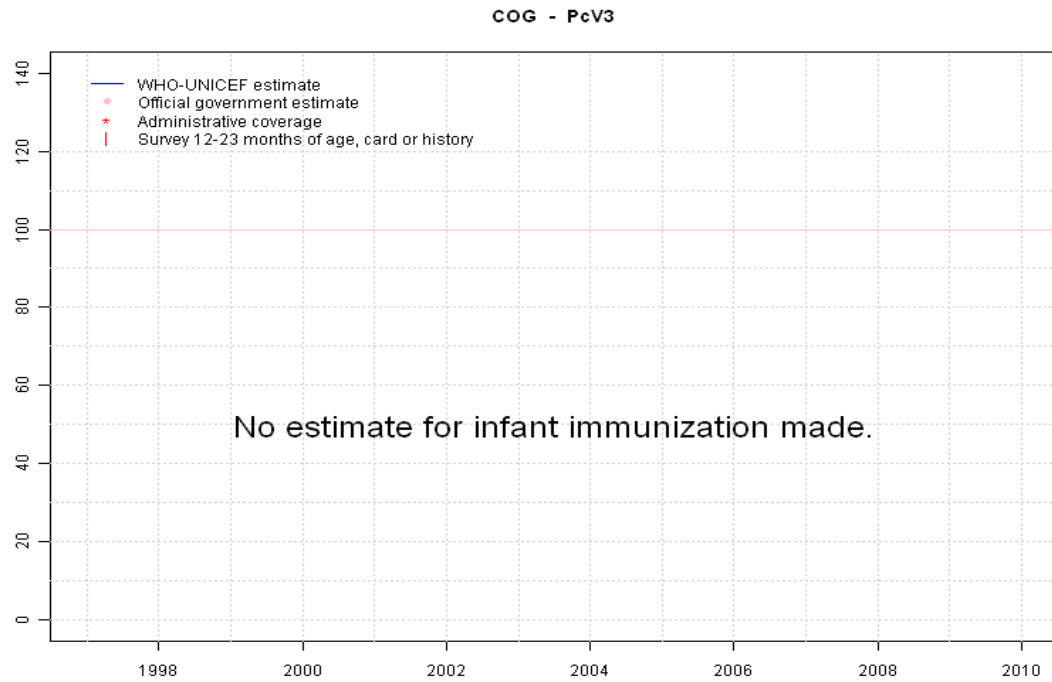
	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Estimate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	91	90
Official	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	91	90
Administrative	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	91	81
Survey	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	67	NA

# Congo - 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

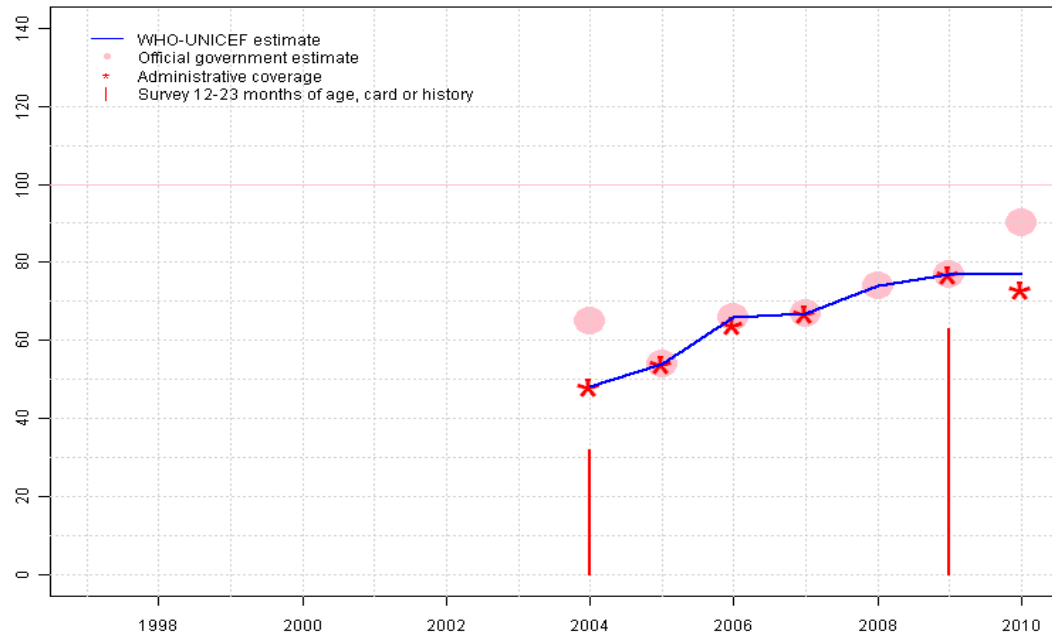
# Congo - PcV3



	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

# Congo - YFV

COG - YFV



## Description:

2004: YFV introduced in 2004

2005: Estimate based on nationally reported data. Reported data not accepted due to a decline from 65 percent to 54 percent with a subsequent increase to 66 percent.

2006: Estimate based on nationally reported data.

2007: Estimate based on reported data.

2008: Estimate based on reported data.

2009: Estimate based on reported data. Survey results not accepted. Sample size 0 less than 300.

2010: Estimate based on extrapolation from 2009 value of 77 percent. Reported data not accepted due to a change from 77 level to 90 percent. The government estimate includes immunizations delivered in both the public and private sector.

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Estimate	NA	NA	NA	NA	NA	NA	NA	48	54	66	67	74	77	77
Official	NA	NA	NA	NA	NA	NA	NA	65	54	66	67	74	77	90
Administrative	NA	NA	NA	NA	NA	NA	NA	48	54	64	67	NA	77	73
Survey	NA	NA	NA	NA	NA	NA	NA	32	NA	NA	NA	NA	63	NA

# Congo - survey details

## 2009 Revue Externe du Programme Elargi de Vaccination au Congo, 2010

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	Card or History	96	12-23 m	0	88
BCG	Card	95	12-23 m	0	88
DTP1	Card or History	78	12-23 m	0	88
DTP1	Card	72	12-23 m	0	88
DTP3	Card or History	67	12-23 m	0	88
DTP3	Card	61	12-23 m	0	88
HepB1	Card or History	78	12-23 m	0	88
HepB1	Card	72	12-23 m	0	88
HepB3	Card or History	67	12-23 m	0	88
HepB3	Card	61	12-23 m	0	88
Hib1	Card or History	78	12-23 m	0	88
Hib1	Card	72	12-23 m	0	88
Hib3	Card	61	12-23 m	0	88
Hib3	Card or History	67	12-23 m	0	88
MCV	Card or History	65	12-23 m	0	88
MCV	Card	59	12-23 m	0	88
Pol1	Card or History	84	12-23 m	0	88
Pol1	Card	77	12-23 m	0	88
Pol3	Card or History	68	12-23 m	0	88
Pol3	Card	62	12-23 m	0	88
YFV	Card	58	12-23 m	0	88
YFV	Card or History	63	12-23 m	0	88

## 2004 Enquête démographique and de santé du Congo, 2005

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	History	31	12-23 m	899	60
BCG	C or H <12 months	90	12-23 m	899	60
BCG	Card	59	12-23 m	899	60
BCG	Card or History	90	12-23 m	899	60
DTP1	C or H <12 months	84	12-23 m	899	60
DTP1	Card	59	12-23 m	899	60
DTP1	Card or History	85	12-23 m	899	60
DTP1	History	26	12-23 m	899	60
DTP3	C or H <12 months	66	12-23 m	899	60
DTP3	Card	52	12-23 m	899	60
DTP3	Card or History	68	12-23 m	899	60
DTP3	History	16	12-23 m	899	60
MCV	History	20	12-23 m	899	60
MCV	C or H <12 months	58	12-23 m	899	60
MCV	Card	47	12-23 m	899	60
MCV	Card or History	66	12-23 m	899	60
Pol1	Card	59	12-23 m	899	60
Pol1	Card or History	93	12-23 m	899	60
Pol1	History	34	12-23 m	899	60
Pol1	C or H <12 months	92	12-23 m	899	60
Pol3	C or H <12 months	66	12-23 m	899	60
Pol3	Card	51	12-23 m	899	60
Pol3	Card or History	69	12-23 m	899	60
Pol3	History	18	12-23 m	899	60
YFV	Card	21	12-23 m	899	60
YFV	Card or History	32	12-23 m	899	60
YFV	History	11	12-23 m	899	60
YFV	C or H <12 months	26	12-23 m	899	60

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)

## Congo

### 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	62
1998	62
1999	63
2000	67
2001	67
2002	69
2003	79
2004	74
2005	75
2006	81
2007	82
2008	82
2009	82
2010	83

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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.