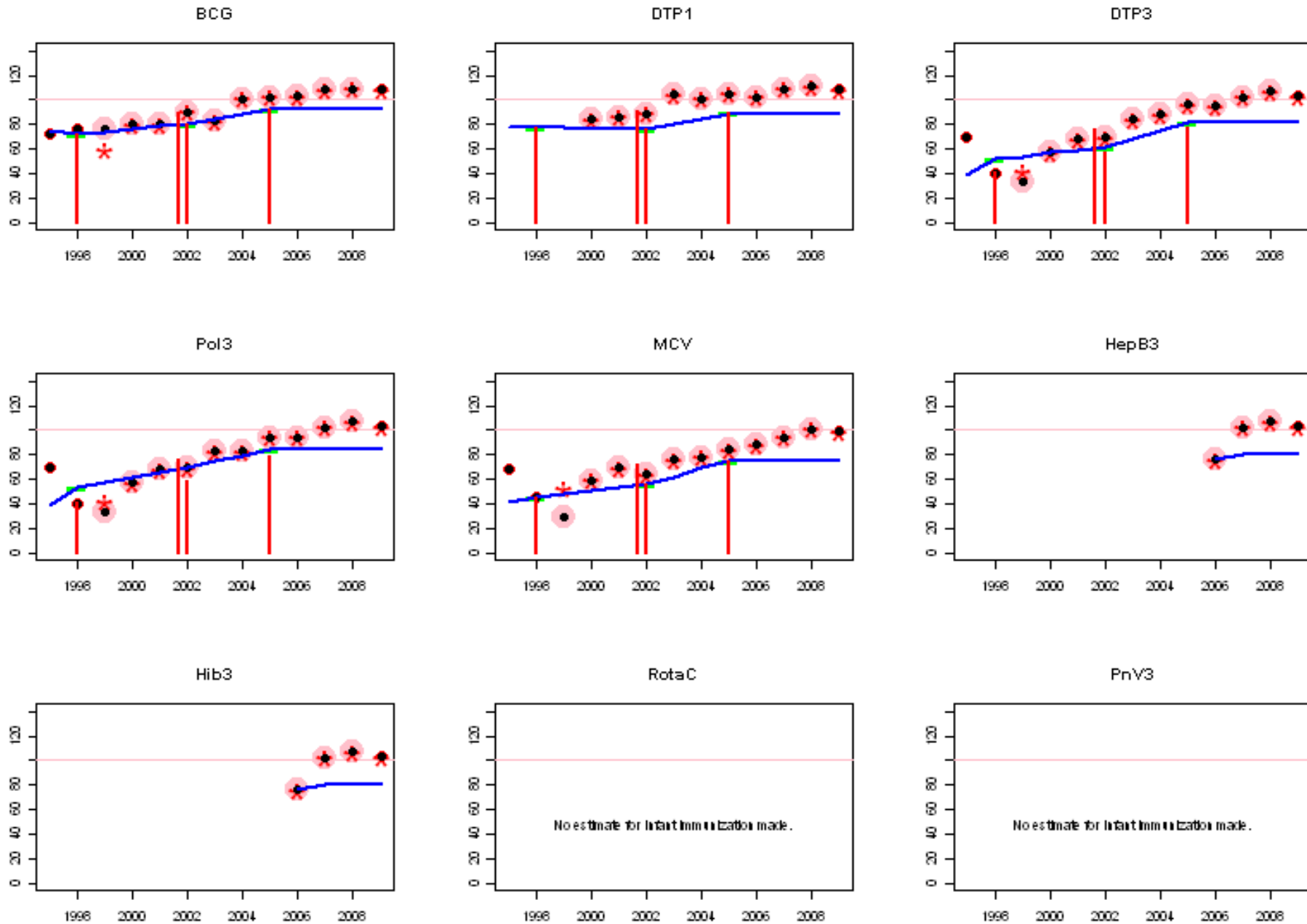
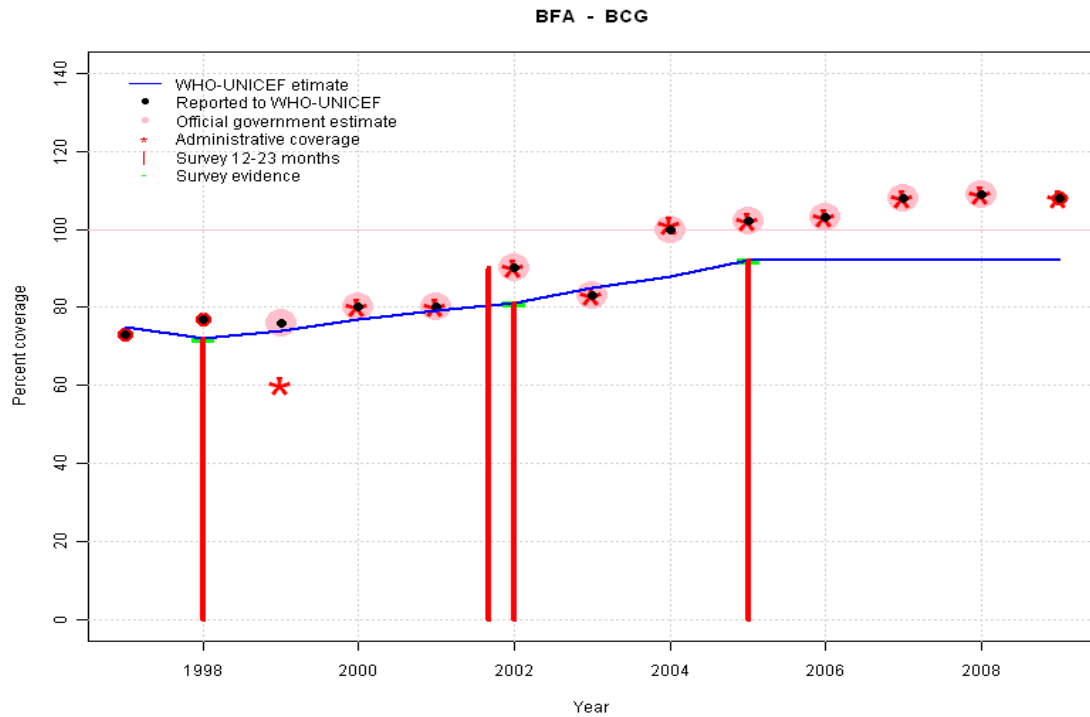


Burkina Faso: WHO and UNICEF estimates of immunization coverage, 1997 - 2009



Burkina Faso - BCG



	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Estimate	75	72	74	77	79	81	85	88	92	92	92	92	92
Reported	73	77	76	80	80	90	83	100	102	103	108	109	108
Official	NA	NA	76	80	80	90	83	100	102	103	108	109	NA
Administrative	NA	NA	60	80	80	90	83	101	102	103	108	109	108
Survey	NA	72	NA	NA	NA	81	NA	NA	92	NA	NA	NA	NA

Description:

1997: Legacy estimate.

1998: Estimate is based on survey results.

1999: Estimate based on working group decision to interpolated between 1998 and 2002. Reported data inconsistent with survey results across antigens.

2000: Estimate based on working group decision to interpolated between 1998 and 2002. Reported data inconsistent with survey results across antigens.

2001: Estimate based on working group decision to interpolated between 1998 and 2002. Reported data inconsistent with survey results across antigens.

2002: Estimate is based on survey results. Survey results of 90 percent ignored by working group. Survey results inconsistent with DHS results.

2003: Estimate based on working group decision to interpolated between 2002 and 2005. Reported data inconsistent with survey results across antigens.

2004: Estimate based on working group decision to interpolated between 2002 and 2005. Reported data inconsistent with survey results across antigens.

2005: Estimate is based on survey results. 2005 reported data (102 percent) ignored; greater than 100 percent.

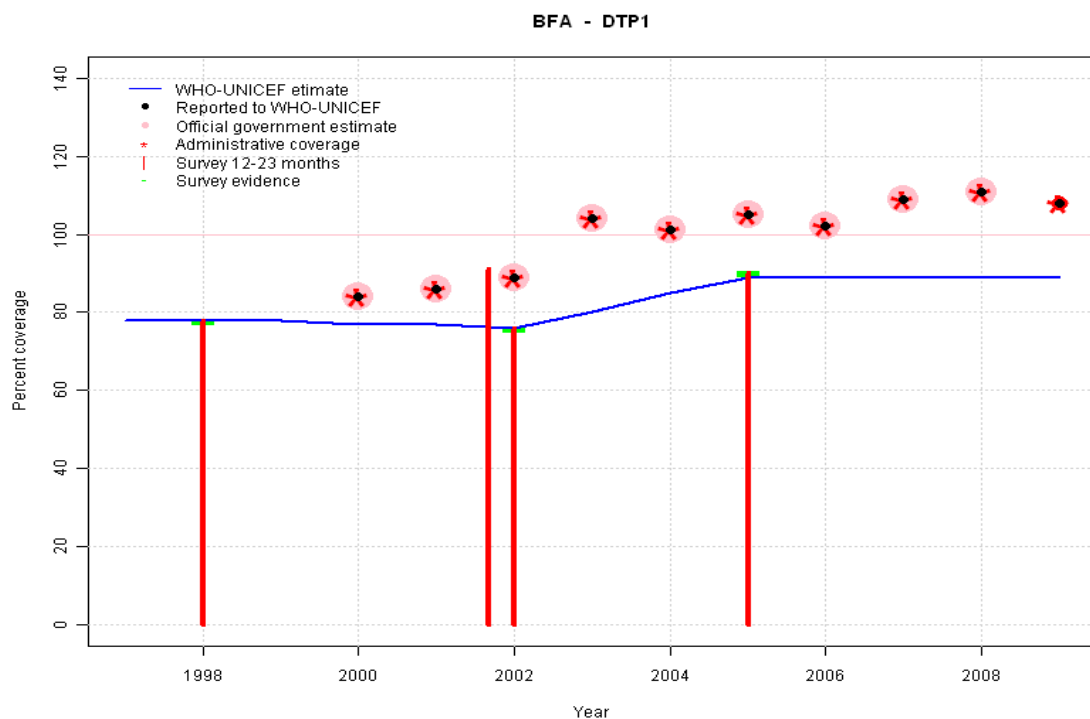
2006: Estimate extrapolated from 2005 level (92 percent). 2006 reported data (103 percent) ignored; greater than 100 percent.

2007: Estimate extrapolated from 2005 level (92 percent). 2007 reported data (108 percent) ignored; greater than 100 percent.

2008: Estimate extrapolated from 2005 level (92 percent). 2008 reported data (109 percent) ignored; greater than 100 percent.

2009: Estimate extrapolated from 2005 level (92 percent). 2009 reported data (108 percent) ignored; greater than 100 percent.

Burkina Faso - DTP1

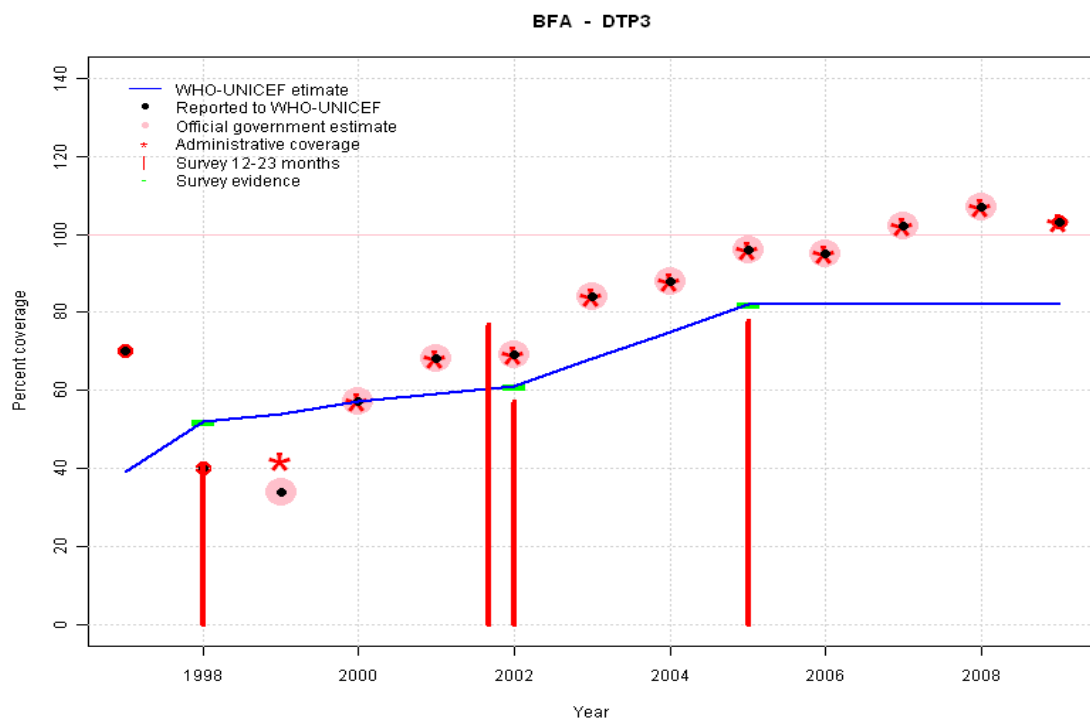


	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Estimate	78	78	78	77	77	76	80	85	89	89	89	89	89
Reported	NA	NA	NA	84	86	89	104	101	105	102	109	111	108
Official	NA	NA	NA	84	86	89	104	101	105	102	109	111	NA
Administrative	NA	NA	NA	84	86	89	104	101	105	102	109	111	108
Survey	NA	78	NA	NA	NA	76	NA	NA	90	NA	NA	NA	NA

Description:

- 1997: Legacy estimate.
- 1998: Estimate is based on survey results.
- 1999: Estimate based on working group decision to interpolated between 1998 and 2002. Reported data inconsistent with survey results across antigens.
- 2000: Estimate based on working group decision to interpolated between 1998 and 2002. Reported data inconsistent with survey results across antigens.
- 2001: Estimate based on working group decision to interpolated between 1998 and 2002. Reported data inconsistent with survey results across antigens.
- 2002: Estimate based on survey results. Reported data (89 percent) not consistent with survey results (76 percent). Survey results of 91 percent ignored by working group. Survey results inconsistent with DHS results.
- 2003: Estimate based on working group decision to interpolated between 2002 and 2005. Reported data inconsistent with survey results across antigens. 2003 reported data (104 percent) ignored; greater than 100 percent.
- 2004: Estimate based on working group decision to interpolated between 2002 and 2005. Reported data inconsistent with survey results across antigens. 2004 reported data (101 percent) ignored; greater than 100 percent.
- 2005: Estimate based on interpolated value between reported data. Survey (90 percent) confirms trend in reported data. 2005 reported data (105 percent) ignored; greater than 100 percent.
- 2006: Estimate based on trend in reported data. Missing or ignored reported value estimated by extrapolation from 2002 reported value of 89 percent. 2006 reported data (102 percent) ignored; greater than 100 percent.
- 2007: Estimate based on trend in reported data. Missing or ignored reported value estimated by extrapolation from 2002 reported value of 89 percent. 2007 reported data (109 percent) ignored; greater than 100 percent.
- 2008: Estimate based on trend in reported data. Missing or ignored reported value estimated by extrapolation from 2002 reported value of 89 percent. 2008 reported data (111 percent) ignored; greater than 100 percent.
- 2009: Estimate based on trend in reported data. Missing or ignored reported value estimated by extrapolation from 2002 reported value of 89 percent. 2009 reported data (108 percent) ignored; greater than 100 percent.

Burkina Faso - DTP3



	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Estimate	39	52	54	57	59	61	68	75	82	82	82	82	82
Reported	70	40	34	57	68	69	84	88	96	95	102	107	103
Official	NA	NA	34	57	68	69	84	88	96	95	102	107	NA
Administrative	NA	NA	42	57	68	69	84	88	96	95	102	107	103
Survey	NA	52	NA	NA	NA	61	NA	NA	82	NA	NA	NA	NA

Description:

1997: Legacy estimate.

1998: Estimate based on survey results. Reported data (40 percent) not consistent with survey results (52 percent). Survey results (41 percent) adjusted for recall bias to 52 percent based on first dose card or history coverage (78 percent) and documented drop-out between first (48 percent) and third (32 percent) doses.

1999: Estimate based on working group decision to interpolated between 1998 and 2002. Reported data inconsistent with survey results across antigens.

2000: Estimate based on working group decision to interpolated between 1998 and 2002. Reported data inconsistent with survey results across antigens.

2001: Estimate based on working group decision to interpolated between 1998 and 2002. Reported data inconsistent with survey results across antigens.

2002: Estimate is based on survey results. Survey results of 77 percent ignored by working group. Survey results inconsistent with DHS results. Survey results (57 percent) adjusted for recall bias to 61 percent based on first dose card or history coverage (76 percent) and documented drop-out between first (62 percent) and third (50 percent) doses.

2003: Estimate based on working group decision to interpolated between 2002 and 2005. Reported data inconsistent with survey results across antigens.

2004: Estimate based on working group decision to interpolated between 2002 and 2005. Reported data inconsistent with survey results across antigens.

2005: Estimate based on survey results. Reported data (96 percent) not consistent with survey results (82 percent). Survey results (78 percent) adjusted for recall bias to 82 percent based on first dose card or history coverage (90 percent) and documented drop-out between first (77 percent) and third (70 percent) doses.

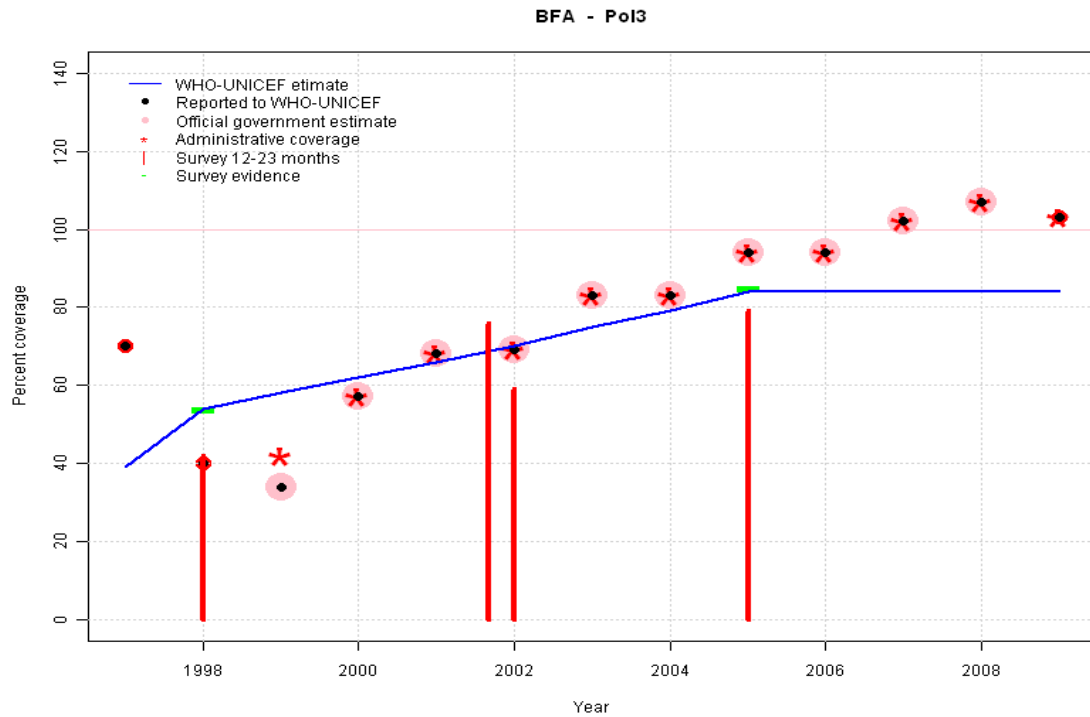
2006: Estimate extrapolated from 2005 level (82 percent).

2007: Estimate extrapolated from 2005 level (82 percent). 2007 reported data (102 percent) ignored; greater than 100 percent.

2008: Estimate extrapolated from 2005 level (82 percent). 2008 reported data (107 percent) ignored; greater than 100 percent.

2009: Estimate extrapolated from 2005 level (82 percent). 2009 reported data (103 percent) ignored; greater than 100 percent.

Burkina Faso - Pol3



	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Estimate	39	54	58	62	66	70	75	79	84	84	84	84	84
Reported	70	40	34	57	68	69	83	83	94	94	102	107	103
Official	NA	NA	34	57	68	69	83	83	94	94	102	107	NA
Administrative	NA	NA	42	57	68	69	83	83	94	94	102	107	103
Survey	NA	54	NA	NA	NA	70	NA	NA	85	NA	NA	NA	NA

Description:

1997: Legacy estimate.

1998: Estimate based on survey results. Reported data (40 percent) not consistent with survey results (54 percent). Survey results (42 percent) adjusted for recall bias to 54 percent based on first dose card or history coverage (81 percent) and documented drop-out between first (51 percent) and third (34 percent) doses.

1999: Estimate based on working group decision to interpolated between 1998 and 2002. Reported data inconsistent with survey results across antigens.

2000: Estimate based on working group decision to interpolated between 1998 and 2002. Reported data inconsistent with survey results across antigens.

2001: Estimate based on working group decision to interpolated between 1998 and 2002. Reported data inconsistent with survey results across antigens.

2002: Estimate is based on survey results. Survey results of 76 percent ignored by working group. Survey results inconsistent with DHS results. Survey results (59 percent) adjusted for recall bias to 70 percent based on first dose card or history coverage (86 percent) and documented drop-out between first (64 percent) and third (52 percent) doses.

2003: Estimate based on working group decision to interpolated between 2002 and 2005. Reported data inconsistent with survey results across antigens.

2004: Estimate based on working group decision to interpolated between 2002 and 2005. Reported data inconsistent with survey results across antigens.

2005: Estimate is based on survey results. Survey results (79 percent) adjusted for recall bias to 85 percent based on first dose card or history coverage (93 percent) and documented drop-out between first (77 percent) and third (70 percent) doses.

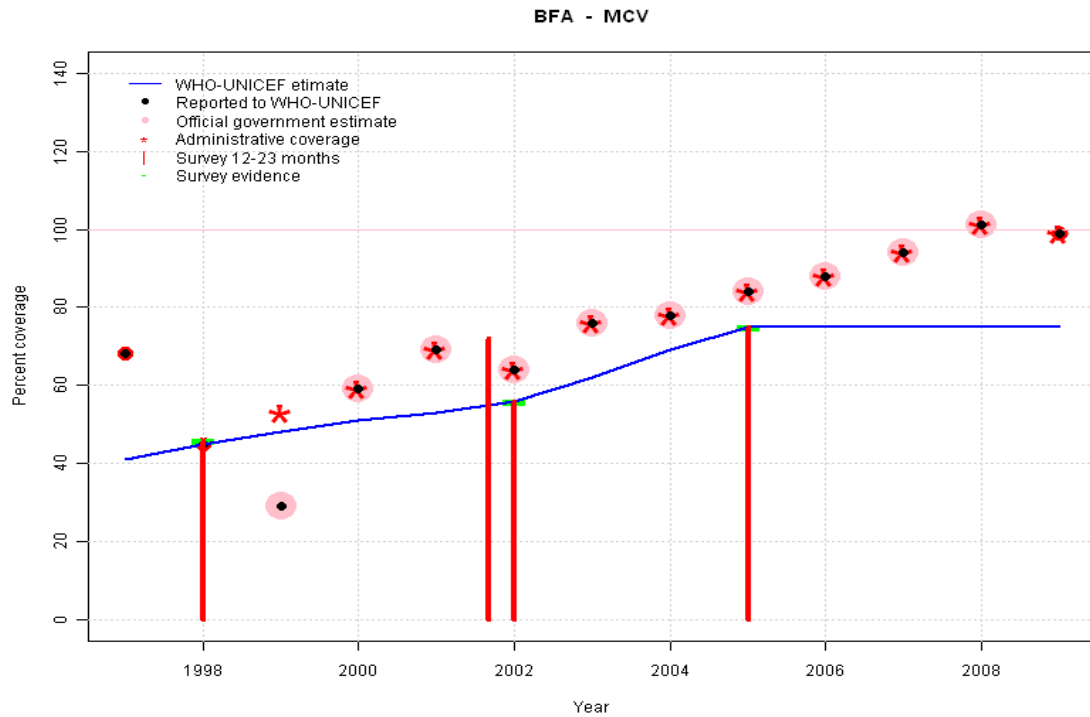
2006: Estimate extrapolated from 2005 level (84 percent).

2007: Estimate extrapolated from 2005 level (84 percent). 2007 reported data (102 percent) ignored; greater than 100 percent.

2008: Estimate extrapolated from 2005 level (84 percent). 2008 reported data (107 percent) ignored; greater than 100 percent.

2009: Estimate extrapolated from 2005 level (84 percent). 2009 reported data (103 percent) ignored; greater than 100 percent.

Burkina Faso - MCV

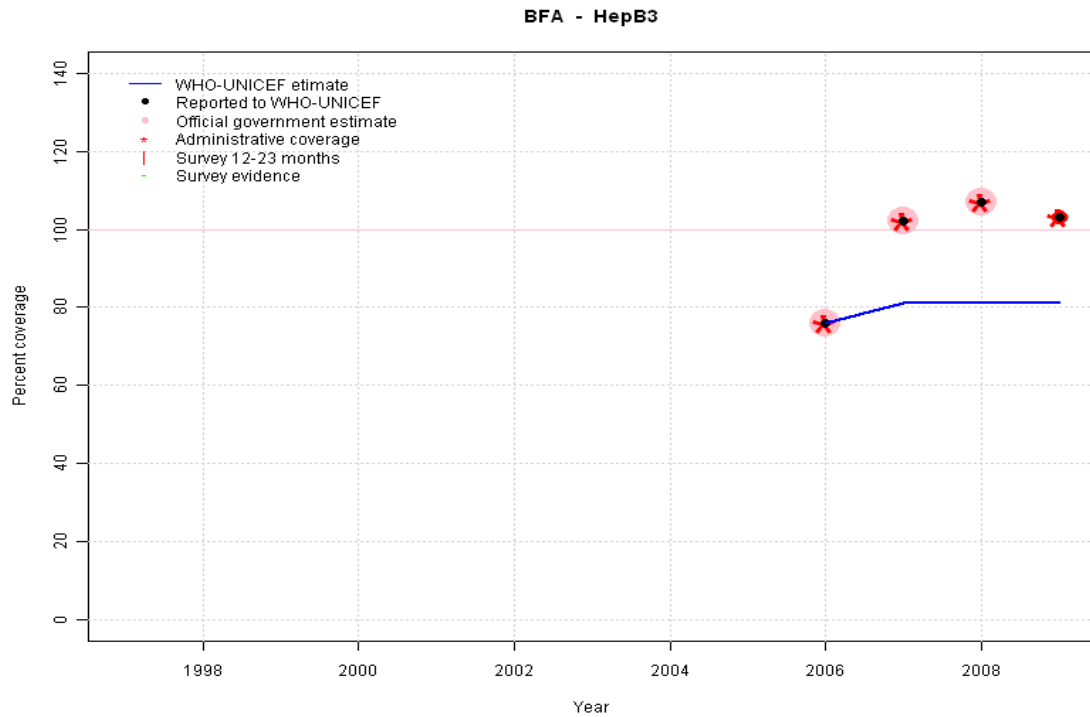


Description:

- 1997: Legacy estimate.
- 1998: Estimate based on reported data (45 percent) confirmed by survey (46 percent).
- 1999: Estimate based on working group decision to interpolated between 1998 and 2002. Reported data inconsistent with survey results across antigens. 1999 reported data (29 percent) inconsistent with data from other years.
- 2000: Estimate based on working group decision to interpolated between 1998 and 2002. Reported data inconsistent with survey results across antigens.
- 2001: Estimate based on working group decision to interpolated between 1998 and 2002. Reported data inconsistent with survey results across antigens.
- 2002: Estimate is based on survey results. Survey results of 72 percent ignored by working group. Survey results inconsistent with DHS results.
- 2003: Estimate based on working group decision to interpolated between 2002 and 2005. Reported data inconsistent with survey results across antigens.
- 2004: Estimate based on working group decision to interpolated between 2002 and 2005. Reported data inconsistent with survey results across antigens.
- 2005: Estimate is based on survey results.
- 2006: Estimate extrapolated from 2005 level (75 percent).
- 2007: Estimate extrapolated from 2005 level (75 percent).
- 2008: Estimate extrapolated from 2005 level (75 percent). 2008 reported data (101 percent) ignored; greater than 100 percent.
- 2009: Estimate extrapolated from 2005 level (75 percent).

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Estimate	41	45	48	51	53	56	62	69	75	75	75	75	75
Reported	68	45	29	59	69	64	76	78	84	88	94	101	99
Official	NA	NA	29	59	69	64	76	78	84	88	94	101	NA
Administrative	NA	NA	53	59	69	64	76	78	84	88	94	101	99
Survey	NA	46	NA	NA	NA	56	NA	NA	75	NA	NA	NA	NA

Burkina Faso - HepB3

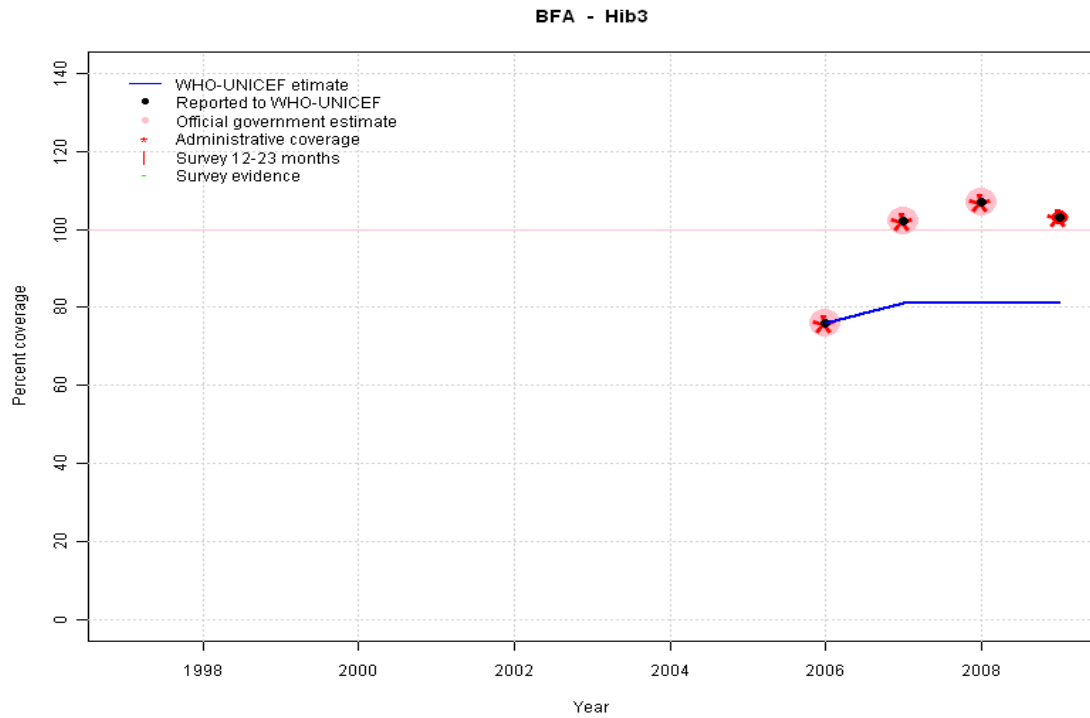


Description:

- 2006: Estimate follows the DTP3 levels of coverage. HepB introduced in 2006. Vaccine presentation is DTP-HepB-Hib.
- 2007: Estimate follows the DTP3 levels of coverage. 2007 reported data (102 percent) ignored; greater than 100 percent.
- 2008: Estimate extrapolated from 2007 level (81 percent). 2008 reported data (107 percent) ignored; greater than 100 percent.
- 2009: Estimate extrapolated from 2007 level (81 percent). 2009 reported data (103 percent) ignored; greater than 100 percent.

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Estimate	NA	NA	NA	NA	NA	NA	NA	NA	NA	76	81	81	81
Reported	NA	NA	NA	NA	NA	NA	NA	NA	NA	76	102	107	103
Official	NA	NA	NA	NA	NA	NA	NA	NA	NA	76	102	107	NA
Administrative	NA	NA	NA	NA	NA	NA	NA	NA	NA	76	102	107	103
Survey	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Burkina Faso - Hib3

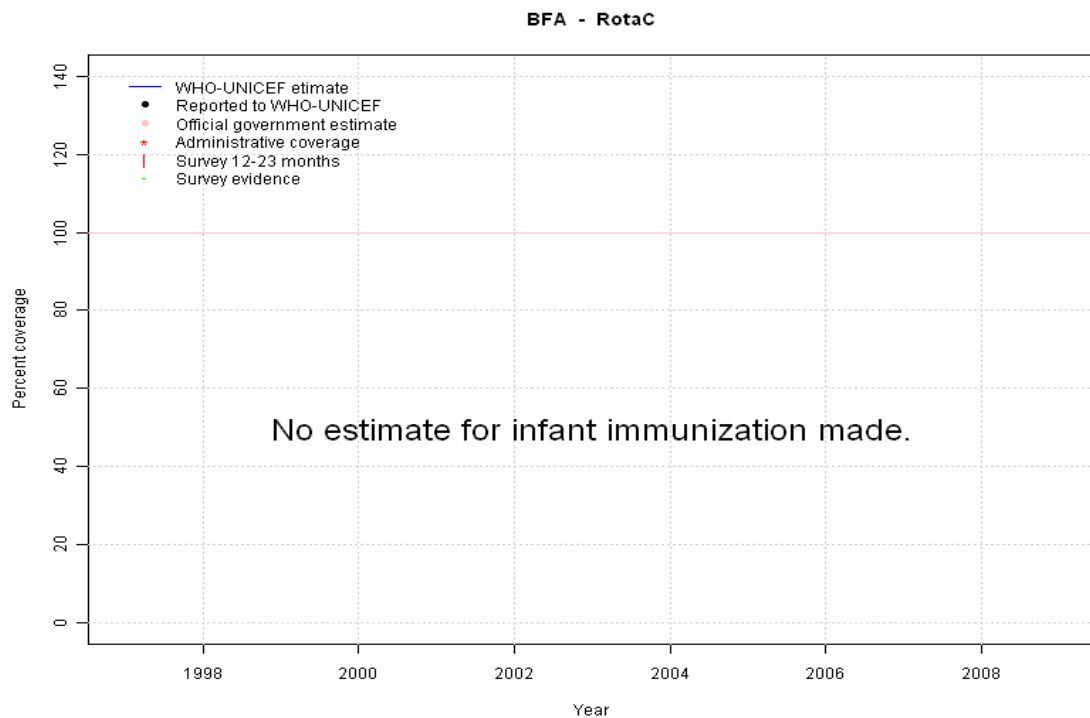


Description:

- 2006: Estimate follows the DTP3 levels of coverage. Hib introduced in 2006 Vaccine presentation is DTP-HepB-Hib.
- 2007: Estimate follows the DTP3 levels of coverage. 2007 reported data (102 percent) ignored; greater than 100 percent.
- 2008: Estimate extrapolated from 2007 level (81 percent). 2008 reported data (107 percent) ignored; greater than 100 percent.
- 2009: Estimate extrapolated from 2007 level (81 percent). 2009 reported data (103 percent) ignored; greater than 100 percent.

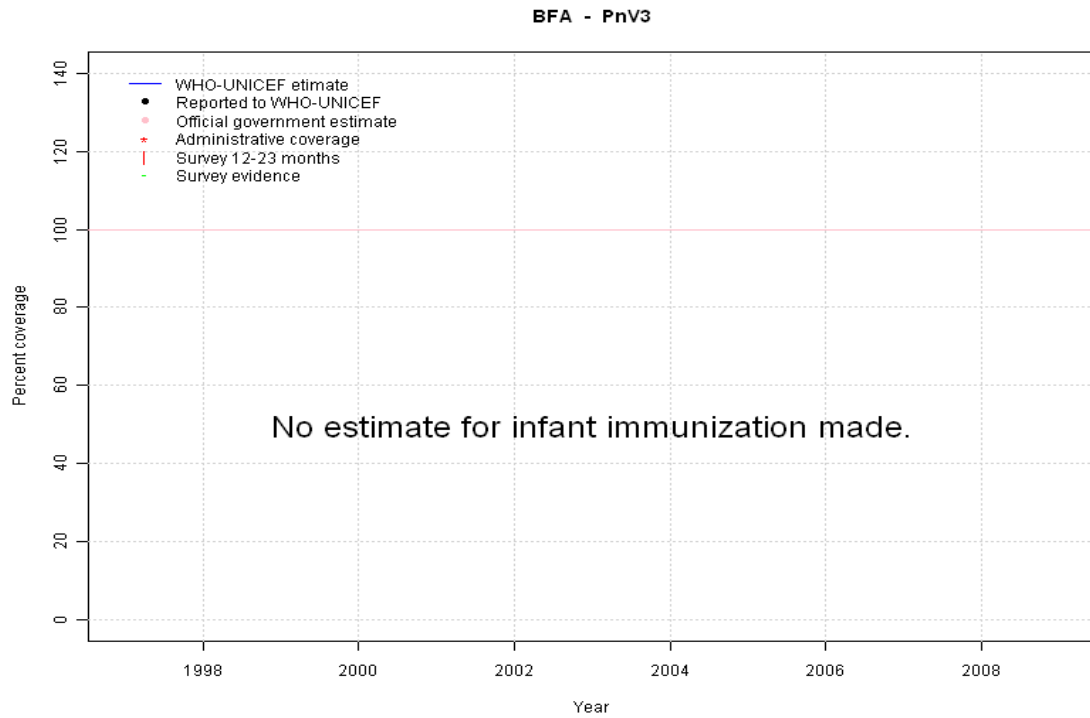
	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Estimate	NA	NA	NA	NA	NA	NA	NA	NA	NA	76	81	81	81
Reported	NA	NA	NA	NA	NA	NA	NA	NA	NA	76	102	107	103
Official	NA	NA	NA	NA	NA	NA	NA	NA	NA	76	102	107	NA
Administrative	NA	NA	NA	NA	NA	NA	NA	NA	NA	76	102	107	103
Survey	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Burkina Faso - RotaC



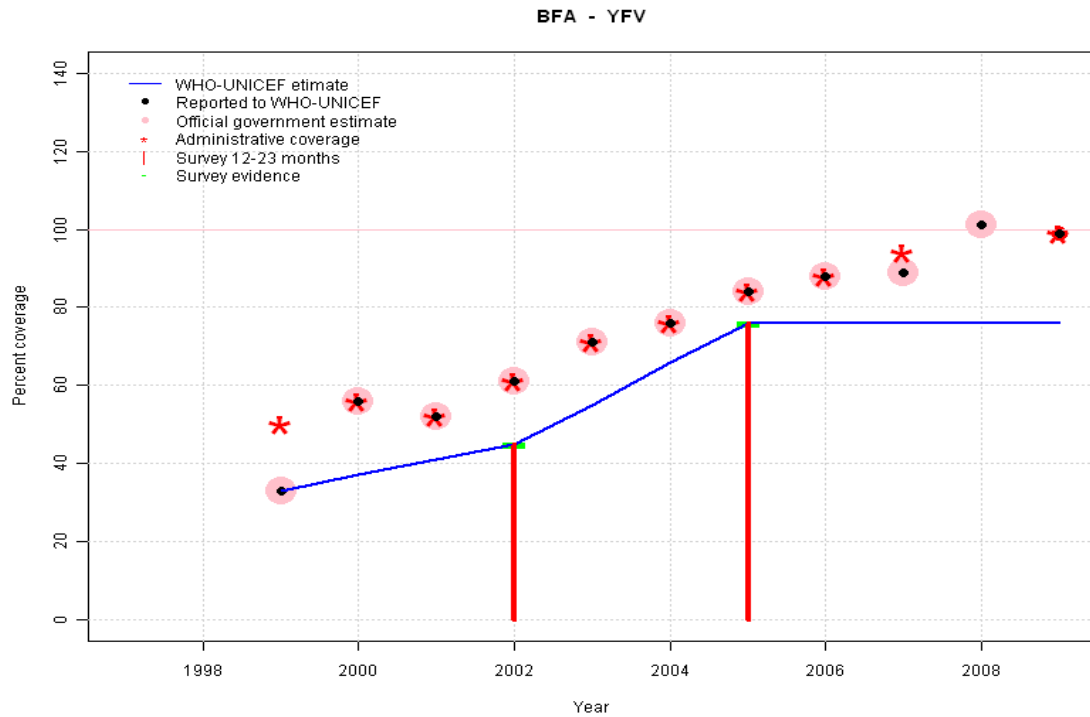
	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Estimate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Reported	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Official	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Administrative	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Survey	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA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

Burkina Faso - PnV3



	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Estimate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Reported	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
Administrative	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

Burkina Faso - YFV



Description:

- 1999: Estimate is based on the reported data. 1999 reported data (33 percent) inconsistent with data from other years.
- 2000: Estimate based on working group decision to interpolated between 1999 and 2002. Reported data inconsistent with survey results across antigens.
- 2001: Estimate based on working group decision to interpolated between 1999 and 2002. Reported data inconsistent with survey results across antigens.
- 2002: Estimate based on survey results. Reported data (61 percent) not consistent with survey results (45 percent).
- 2003: Estimate based on working group decision to interpolated between 2002 and 2005. Reported data inconsistent with survey results across antigens.
- 2004: Estimate based on working group decision to interpolated between 2002 and 2005. Reported data inconsistent with survey results across antigens.
- 2005: Estimate is based on survey results.
- 2006: Estimate extrapolated from 2005 level (76 percent).
- 2007: Estimate extrapolated from 2005 level (76 percent).
- 2008: Estimate extrapolated from 2005 level (76 percent). 2008 reported data (101 percent) ignored; greater than 100 percent.
- 2009: Estimate extrapolated from 2005 level (76 percent).

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Estimate	NA	NA	33	37	41	45	55	66	76	76	76	76	76
Reported	NA	NA	33	56	52	61	71	76	84	88	89	101	99
Official	NA	NA	33	56	52	61	71	76	84	88	89	101	NA
Administrative	NA	NA	50	56	52	61	71	76	84	88	94	NA	99
Survey	NA	NA	NA	NA	NA	45	NA	NA	76	NA	NA	NA	NA

Burkina Faso - survey details

2005 Burkina Faso, Enquête par grappes à indicateurs multiples 2006

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	C or H <12 months	91	12-23 m	1112	79
BCG	Card	77	12-23 m	1112	79
BCG	Card or History	92	12-23 m	1112	79
BCG	History	15	12-23 m	1112	79
DTP1	Card or History	90	12-23 m	1112	79
DTP1	Card	77	12-23 m	1112	79
DTP1	History	13	12-23 m	1112	79
DTP1	C or H <12 months	89	12-23 m	1112	79
DTP3	History	9	12-23 m	1112	79
DTP3	C or H <12 months	76	12-23 m	1112	79
DTP3	Card	70	12-23 m	1112	79
DTP3	Card or History	78	12-23 m	1112	79
MCV	History	12	12-23 m	1112	79
MCV	Card or History	75	12-23 m	1112	79
MCV	Card	63	12-23 m	1112	79
MCV	C or H <12 months	70	12-23 m	1112	79
Pol1	C or H <12 months	92	12-23 m	1112	79
Pol1	Card	77	12-23 m	1112	79
Pol1	Card or History	93	12-23 m	1112	79
Pol1	History	17	12-23 m	1112	79
Pol3	C or H <12 months	77	12-23 m	1112	79
Pol3	Card	70	12-23 m	1112	79
Pol3	Card or History	79	12-23 m	1112	79
Pol3	History	10	12-23 m	1112	79
YFV	C or H <12 months	71	12-23 m	1112	79
YFV	History	12	12-23 m	1112	79
YFV	Card	64	12-23 m	1112	79
YFV	Card or History	76	12-23 m	1112	79

2002 Burkina Faso, Revue Approfondie du PEV, 2003

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	Card or History	90	12-23 m	11080	88
DTP1	Card or History	91	12-23 m	11080	88

DTP3	Card or History	77	12-23 m	11080	88
MCV	Card or History	72	12-23 m	11080	88
Pol1	Card or History	92	12-23 m	11080	88
Pol3	Card or History	76	12-23 m	11080	88

2002 Enquête Démographique et de Santé 2002

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	C or H <12 months	80	12-23 m	1840	67
BCG	History	18	12-23 m	1840	67
BCG	Card	63	12-23 m	1840	67
BCG	Card or history	81	12-23 m	1840	67
DTP1	C or H <12 months	73	12-23 m	1840	67
DTP1	Card	62	12-23 m	1840	67
DTP1	Card or history	76	12-23 m	1840	67
DTP1	History	14	12-23 m	1840	67
DTP3	Card	50	12-23 m	1840	67
DTP3	C or H <12 months	52	12-23 m	1840	67
DTP3	History	7	12-23 m	1840	67
DTP3	Card or history	57	12-23 m	1840	67
MCV	Card	47	12-23 m	1840	67
MCV	Card or history	56	12-23 m	1840	67
MCV	History	9	12-23 m	1840	67
MCV	C or H <12 months	43	12-23 m	1840	67
Pol1	History	23	12-23 m	1840	67
Pol1	C or H <12 months	84	12-23 m	1840	67
Pol1	Card	64	12-23 m	1840	67
Pol1	Card or history	86	12-23 m	1840	67
Pol3	History	7	12-23 m	1840	67
Pol3	Card or history	59	12-23 m	1840	67
Pol3	C or H <12 months	53	12-23 m	1840	67
Pol3	Card	52	12-23 m	1840	67
YFV	C or H <12 months	35	12-23 m	1840	67
YFV	Card	45	12-23 m	1840	67
YFV	Card or history	45	12-23 m	1840	67
YFV	History	0	12-23 m	1840	67

1998 Enquête Démographique et de Santé Burkina Faso 1998-

Burkina Faso - survey details

1999, 2000

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	C or H <12 months	70	12-23 m	1041	56
BCG	Card or History	72	12-23 m	1041	56
BCG	Card	53	12-23 m	1041	56
BCG	History	20	12-23 m	1041	56
DTP1	Card or History	78	12-23 m	1041	56
DTP1	History	31	12-23 m	1041	56
DTP1	Card	48	12-23 m	1041	56
DTP1	C or H <12 months	72	12-23 m	1041	56
DTP3	C or H <12 months	35	12-23 m	1041	56
DTP3	Card	32	12-23 m	1041	56
DTP3	Card or History	41	12-23 m	1041	56
DTP3	History	9	12-23 m	1041	56

MCV	History	9	12-23 m	1041	56
MCV	C or H <12 months	32	12-23 m	1041	56
MCV	Card	37	12-23 m	1041	56
MCV	Card or History	46	12-23 m	1041	56
Pol1	Card	51	12-23 m	1041	56
Pol1	Card or History	81	12-23 m	1041	56
Pol1	History	31	12-23 m	1041	56
Pol1	C or H <12 months	76	12-23 m	1041	56
Pol3	Card or History	42	12-23 m	1041	56
Pol3	Card	34	12-23 m	1041	56
Pol3	History	9	12-23 m	1041	56
Pol3	C or H <12 months	36	12-23 m	1041	56
YFV	C or H <12 months	24	12-23 m	1041	56
YFV	Card	36	12-23 m	1041	56
YFV	Card or History	36	12-23 m	1041	56

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

Burkina Faso

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	63
1998	49
1999	55
2000	57
2001	60
2002	63
2003	67
2004	69
2005	72
2006	76
2007	80
2008	79
2009	85

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.