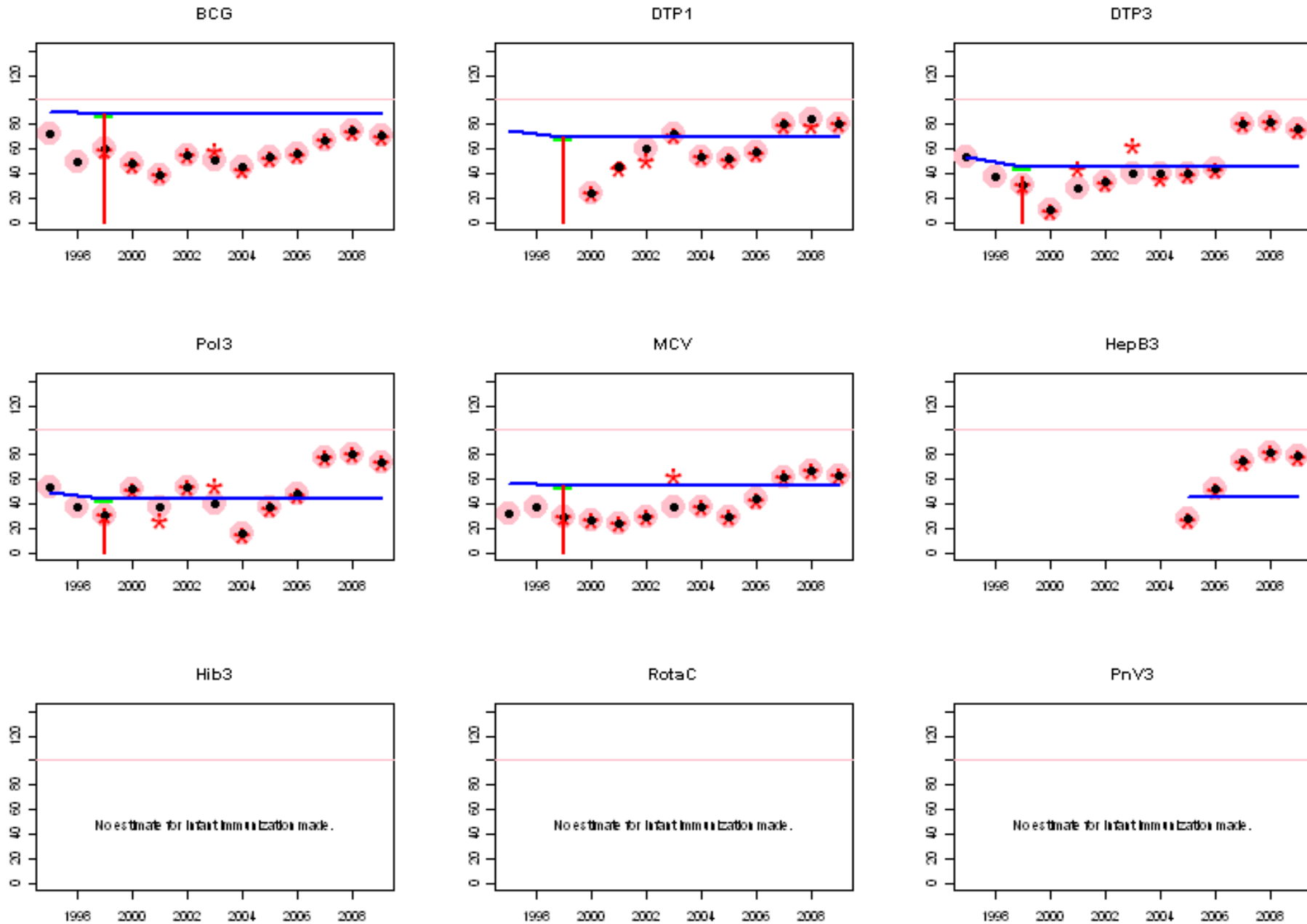
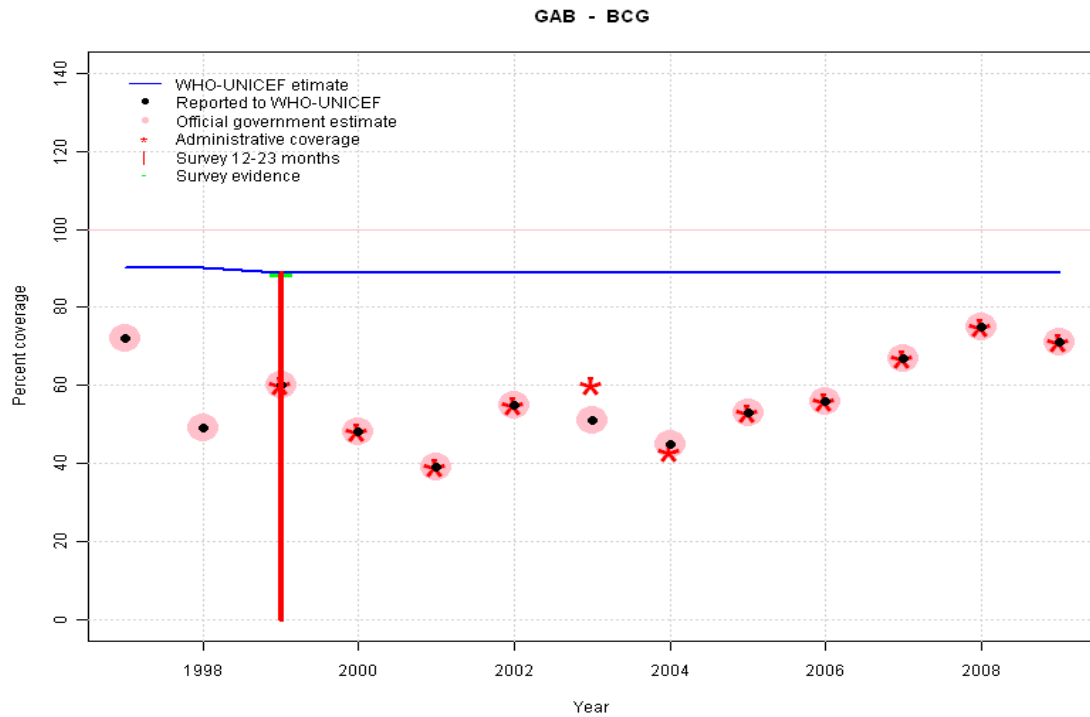


Gabon: WHO and UNICEF estimates of immunization coverage, 1997 - 2009



Gabon - BCG



	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Estimate	90	90	89	89	89	89	89	89	89	89	89	89	89
Reported	72	49	60	48	39	55	51	45	53	56	67	75	71
Official	72	49	60	48	39	55	51	45	53	56	67	75	71
Administrative	NA	NA	60	48	39	55	60	43	53	56	67	75	71
Survey	NA	NA	89	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Description:

1997: Legacy estimate.

1998: Estimate based on working group decision to interpolated between 1997 and 1999. Estimates based on survey results. WHO and UNICEF recommend a survey and/or data review to confirm current reported levels of coverage. 1998 reported data (49 percent) inconsistent with data from other years.

1999: Estimate based on survey results. Reported data (56 percent) not consistent with survey results (89 percent). 1999 reported data (60 percent) inconsistent with data from other years.

2000: Estimate extrapolated from 1999 level (89 percent).

2001: Estimate extrapolated from 1999 level (89 percent).

2002: Estimate extrapolated from 1999 level (89 percent).

2003: Estimate extrapolated from 1999 level (89 percent).

2004: Estimate extrapolated from 1999 level (89 percent).

2005: Estimate extrapolated from 1999 level (89 percent).

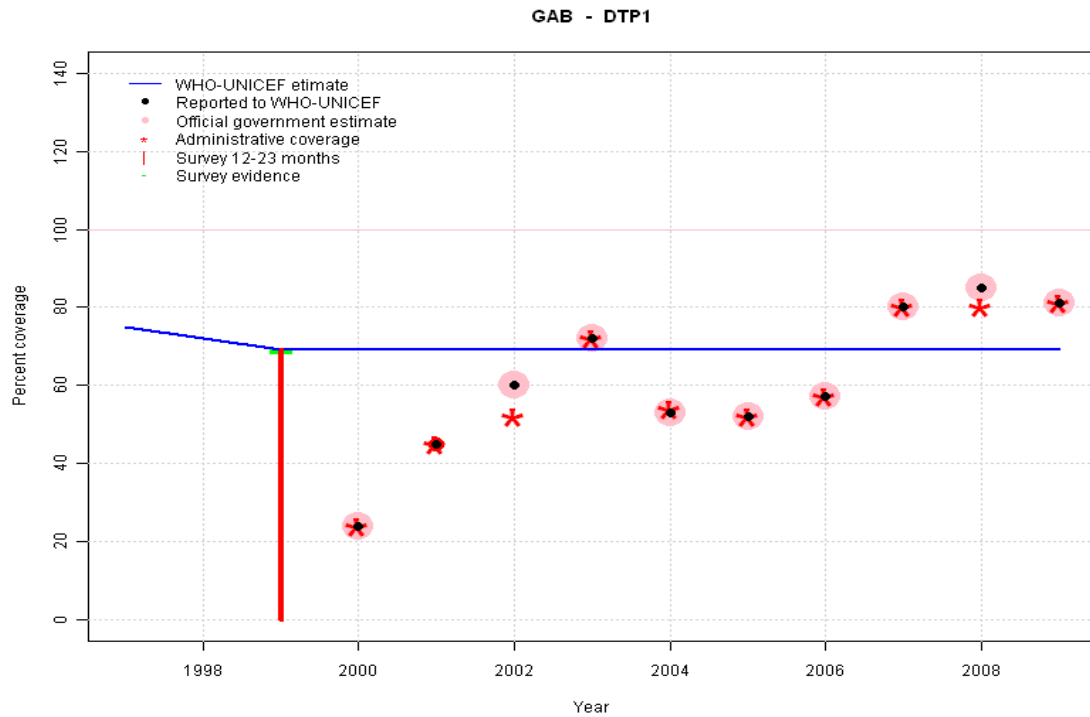
2006: Estimate extrapolated from 1999 level (89 percent).

2007: Estimate extrapolated from 1999 level (89 percent).

2008: Estimate extrapolated from 1999 level (89 percent).

2009: Estimate extrapolated from 1999 level (89 percent).

Gabon - DTP1



Description:

1997: Legacy estimate.

1998: Estimate based on working group decision to interpolated between 1997 and 1999. Estimates based on survey results. WHO and UNICEF recommend a survey and/or data review to confirm current reported levels of coverage.

1999: Estimate based on survey results. Reported data (24 percent) not consistent with survey results (69 percent).

2000: Estimate extrapolated from 1999 level (69 percent).

2001: Estimate extrapolated from 1999 level (69 percent).

2002: Estimate extrapolated from 1999 level (69 percent).

2003: Estimate extrapolated from 1999 level (69 percent). 2003 reported data (72 percent) inconsistent with data from other years.

2004: Estimate extrapolated from 1999 level (69 percent).

2005: Estimate extrapolated from 1999 level (69 percent).

2006: Estimate extrapolated from 1999 level (69 percent).

2007: Estimate extrapolated from 1999 level (69 percent).

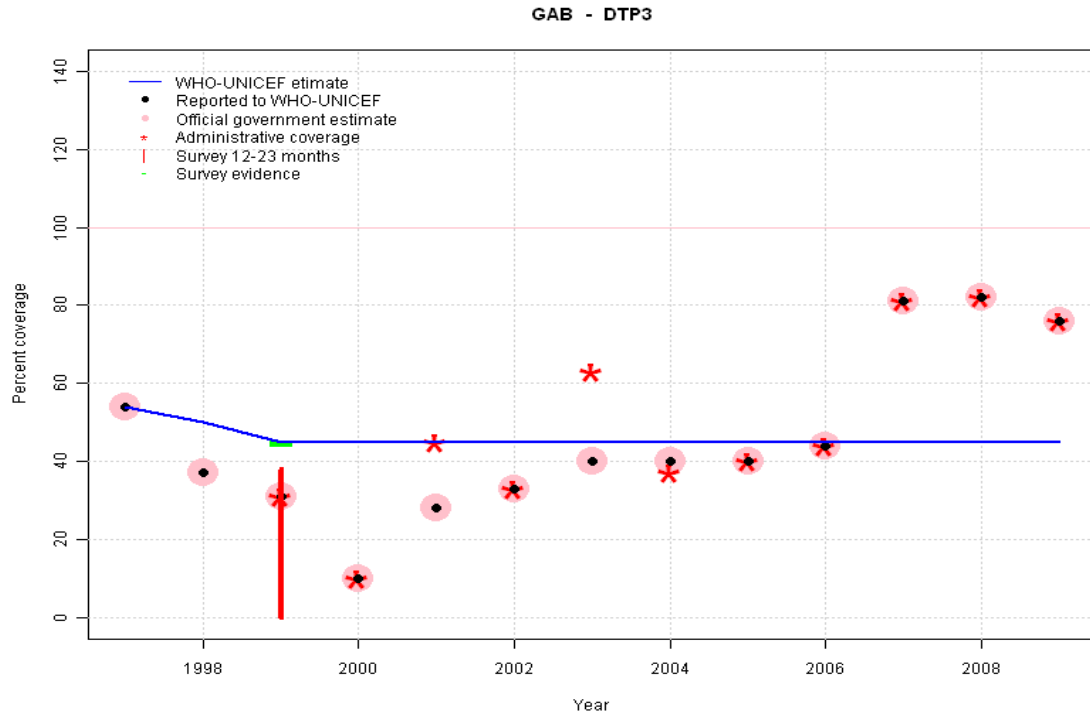
2008: Estimate extrapolated from 1999 level (69 percent).

2009: Estimate extrapolated from 1999 level (69 percent).

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Estimate	75	72	69	69	69	69	69	69	69	69	69	69	69
Reported	NA	NA	NA	24	45	60	72	53	52	57	80	85	81
Official	NA	NA	NA	24	NA	60	72	53	52	57	80	85	81
Administrative	NA	NA	NA	24	45	52	72	54	52	57	80	80	81
Survey	NA	NA	69	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Gabon - DTP3

Description:



1997: Legacy estimate.

1998: Estimate based on working group decision to interpolated between 1997 and 1999. Estimates based on survey results. WHO and UNICEF recommend a survey and/or data review to confirm current reported levels of coverage.

1999: Estimate based on survey results. Reported data (31 percent) not consistent with survey results (45 percent). Survey results (38 percent) adjusted for recall bias to 45 percent based on first dose card or history coverage (69 percent) and documented drop-out between first (48 percent) and third (31 percent) doses.

2000: Estimate extrapolated from 1999 level (45 percent). 2000 reported data (10 percent) inconsistent with data from other years.

2001: Estimate extrapolated from 1999 level (45 percent).

2002: Estimate extrapolated from 1999 level (45 percent).

2003: Estimate extrapolated from 1999 level (45 percent).

2004: Estimate extrapolated from 1999 level (45 percent).

2005: Estimate extrapolated from 1999 level (45 percent).

2006: Estimate extrapolated from 1999 level (45 percent).

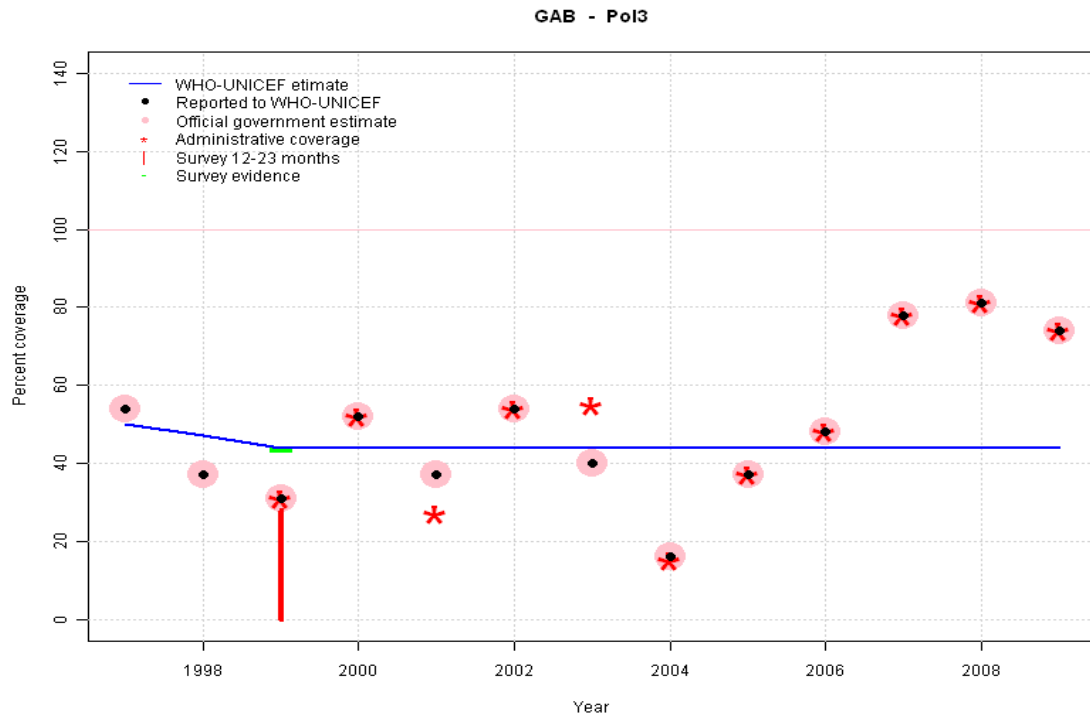
2007: Estimate extrapolated from 1999 level (45 percent).

2008: Estimate extrapolated from 1999 level (45 percent).

2009: Estimate extrapolated from 1999 level (45 percent).

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Estimate	54	50	45	45	45	45	45	45	45	45	45	45	45
Reported	54	37	31	10	28	33	40	40	40	44	81	82	76
Official	54	37	31	10	28	33	40	40	40	44	81	82	76
Administrative	NA	NA	31	10	45	33	63	37	40	44	81	82	76
Survey	NA	NA	45	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Gabon - Pol3

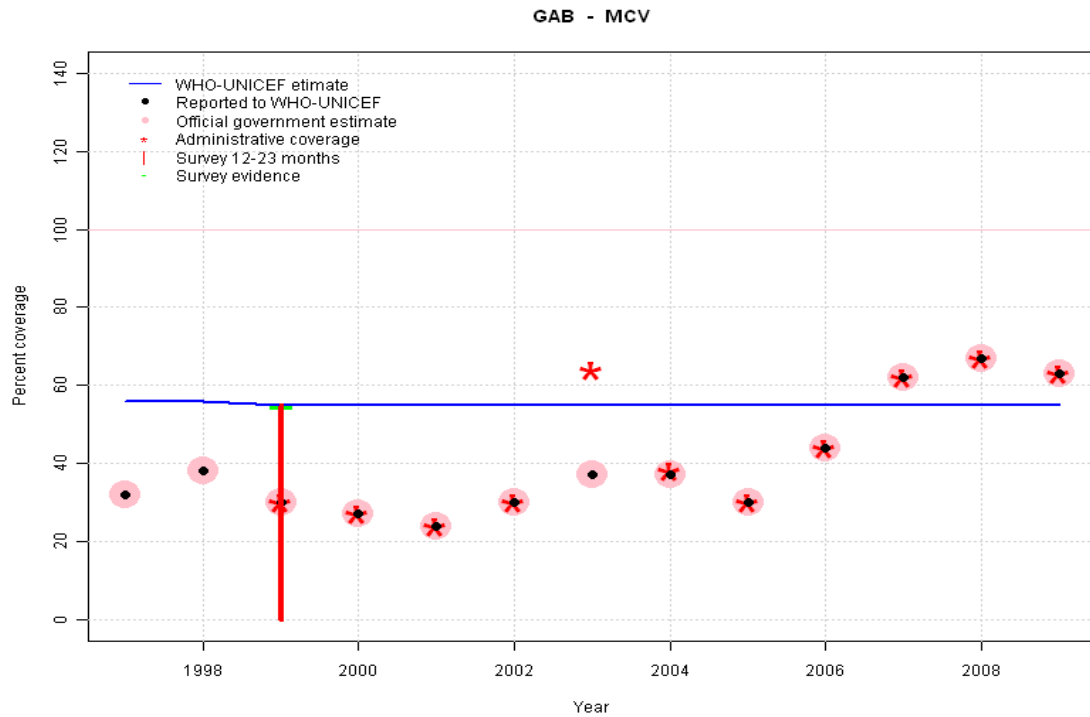


Description:

- 1997: Legacy estimate.
- 1998: Estimate based on working group decision to interpolated between 1997 and 1999. Estimates based on survey results. WHO and UNICEF recommend a survey and/or data review to confirm current reported levels of coverage.
- 1999: Estimate based on survey results. Reported data (31 percent) not consistent with survey results (44 percent). Survey results (28 percent) adjusted for recall bias to 44 percent based on first dose card or history coverage (84 percent) and documented drop-out between first (52 percent) and third (27 percent) doses.
- 2000: Estimate extrapolated from 1999 level (44 percent). 2000 reported data (52 percent) inconsistent with data from other years.
- 2001: Estimate extrapolated from 1999 level (44 percent). 2001 reported data (37 percent) inconsistent with data from other years.
- 2002: Estimate extrapolated from 1999 level (44 percent). 2002 reported data (54 percent) inconsistent with data from other years.
- 2003: Estimate extrapolated from 1999 level (44 percent).
- 2004: Estimate extrapolated from 1999 level (44 percent). 2004 reported data (16 percent) inconsistent with data from other years.
- 2005: Estimate extrapolated from 1999 level (44 percent).
- 2006: Estimate extrapolated from 1999 level (44 percent).
- 2007: Estimate extrapolated from 1999 level (44 percent).
- 2008: Estimate extrapolated from 1999 level (44 percent).
- 2009: Estimate extrapolated from 1999 level (44 percent).

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Estimate	50	47	44	44	44	44	44	44	44	44	44	44	44
Reported	54	37	31	52	37	54	40	16	37	48	78	81	74
Official	54	37	31	52	37	54	40	16	37	48	78	81	74
Administrative	NA	NA	31	52	27	54	55	15	37	48	78	81	74
Survey	NA	NA	44	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Gabon - MCV



Description:

1997: Legacy estimate.

1998: Estimate based on working group decision to interpolated between 1997 and 1999. Estimates based on survey results. WHO and UNICEF recommend a survey and/or data review to confirm current reported levels of coverage.

1999: Estimate based on survey results. Reported data (30 percent) not consistent with survey results (55 percent).

2000: Estimate extrapolated from 1999 level (55 percent).

2001: Estimate extrapolated from 1999 level (55 percent).

2002: Estimate extrapolated from 1999 level (55 percent).

2003: Estimate extrapolated from 1999 level (55 percent).

2004: Estimate extrapolated from 1999 level (55 percent).

2005: Estimate extrapolated from 1999 level (55 percent).

2006: Estimate extrapolated from 1999 level (55 percent).

2007: Estimate extrapolated from 1999 level (55 percent).

2008: Estimate extrapolated from 1999 level (55 percent).

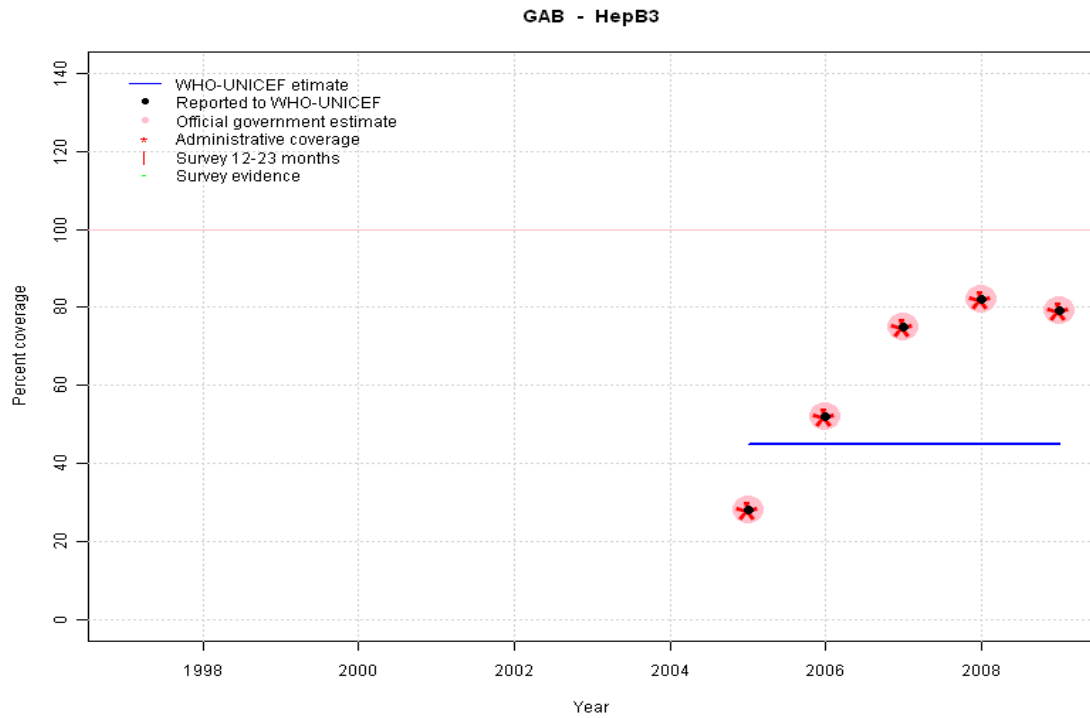
2009: Estimate extrapolated from 1999 level (55 percent).

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Estimate	56	56	55	55	55	55	55	55	55	55	55	55	55
Reported	32	38	30	27	24	30	37	37	30	44	62	67	63
Official	32	38	30	27	24	30	37	37	30	44	62	67	63
Administrative	NA	NA	30	27	24	30	64	38	30	44	62	67	63
Survey	NA	NA	55	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Gabon - HepB3

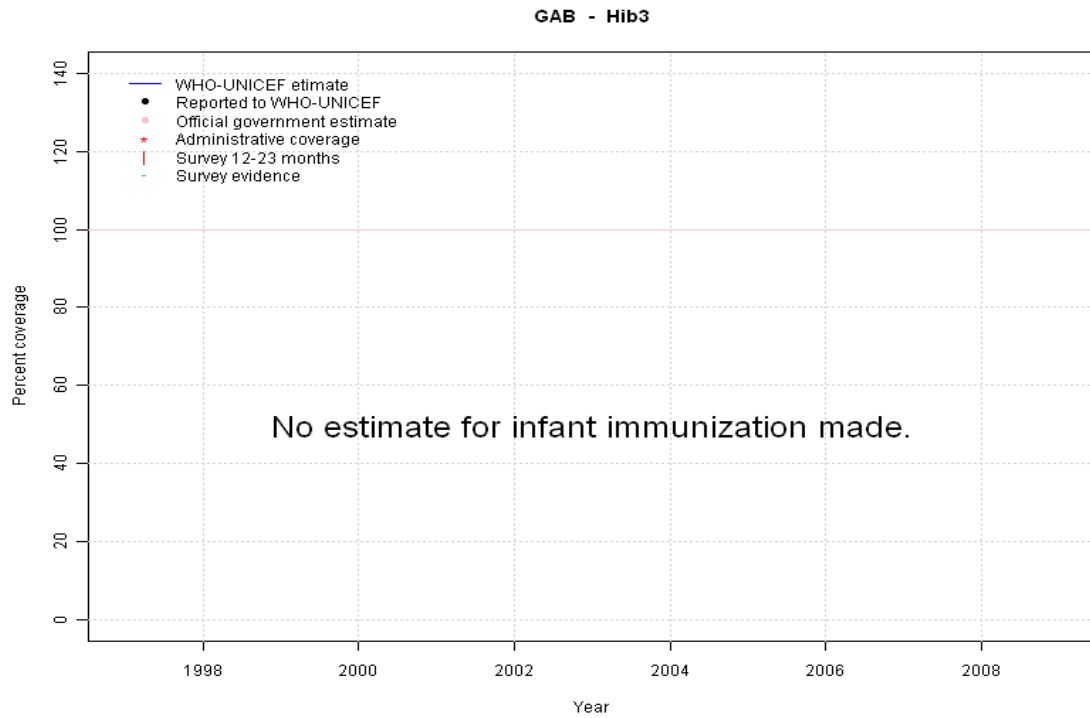
Description:

2005: Estimate based on estimated DTP3 coverage. HepB introduced in 2004. Reporting started in 2005.
 2006: Estimate based on estimated DTP3 coverage.
 2007: Estimate extrapolated from 2006 level (45 percent).
 2008: Estimate extrapolated from 2006 level (45 percent).
 2009: Estimate extrapolated from 2006 level (45 percent).



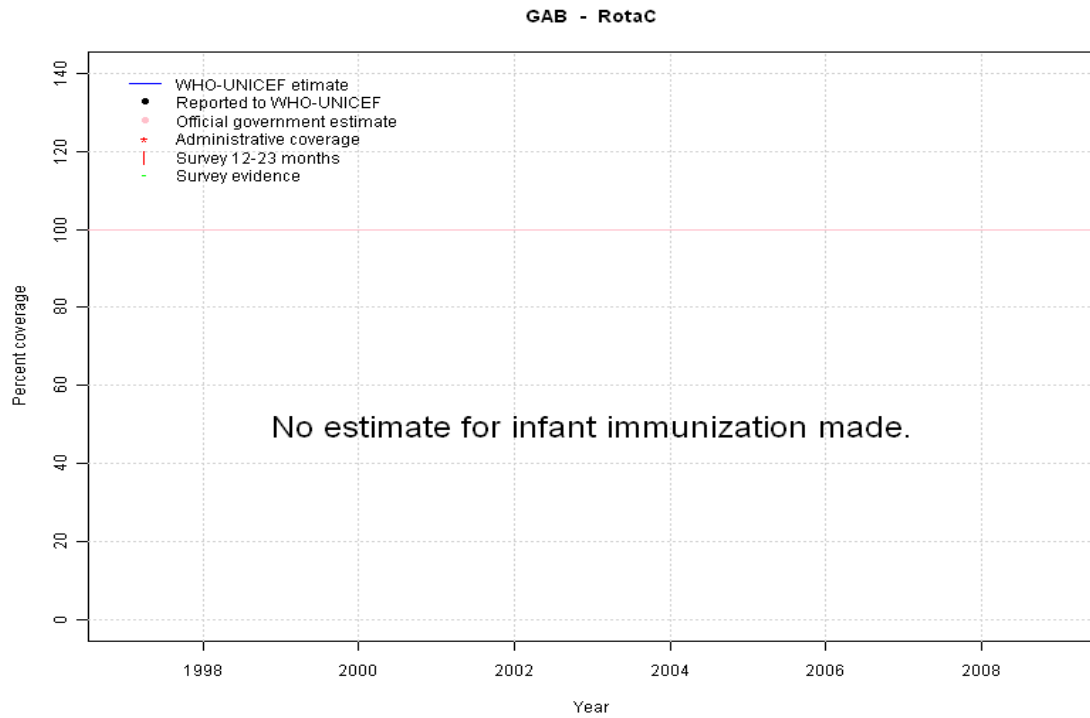
	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Estimate	NA	NA	NA	NA	NA	NA	NA	NA	45	45	45	45	45
Reported	NA	NA	NA	NA	NA	NA	NA	NA	28	52	75	82	79
Official	NA	NA	NA	NA	NA	NA	NA	NA	28	52	75	82	79
Administrative	NA	NA	NA	NA	NA	NA	NA	NA	28	52	75	82	79
Survey	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Gabon - Hib3



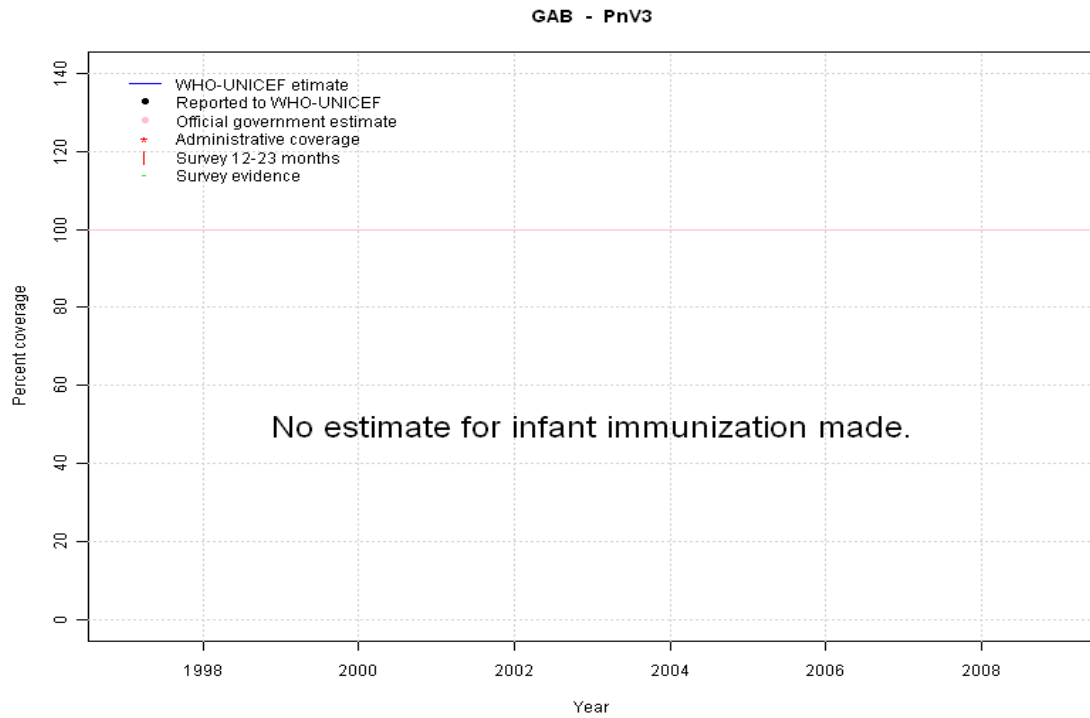
	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Estimate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Reported	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Official	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Administrative	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Survey	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA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

Gabon - RotaC



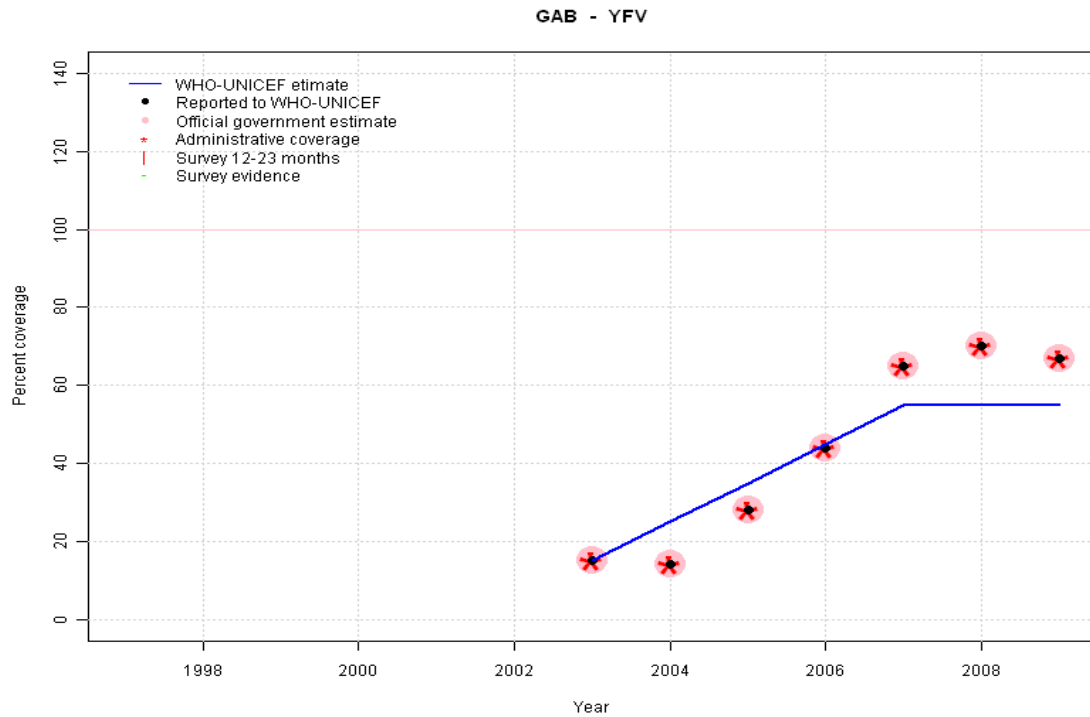
	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Estimate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Reported	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Official	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Administrative	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Survey	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA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

Gabon - 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

Gabon - YFV



	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Estimate	NA	NA	NA	NA	NA	NA	15	25	35	45	55	55	55
Reported	NA	NA	NA	NA	NA	NA	15	14	28	44	65	70	67
Official	NA	NA	NA	NA	NA	NA	15	14	28	44	65	70	67
Administrative	NA	NA	NA	NA	NA	NA	15	14	28	44	65	70	67
Survey	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Description:

- 2003: YFV introduced nationally. Estimate follows reported data
- 2004: Estimate based on working group decision to interpolated between 2003 and 2007. Fluctuating and inconsistent data across antigens suggest poor reporting.
- 2005: Estimate based on working group decision to interpolated between 2003 and 2007. Fluctuating and inconsistent data across antigens suggest poor reporting.
- 2006: Estimate based on working group decision to interpolated between 2003 and 2007. Fluctuating and inconsistent data across antigens suggest poor reporting.
- 2007: Nationally reported data matched and exceeded reported MCV coverage levels. Estimate set to MCV coverage levels.
- 2008: Estimate extrapolated from 2007 level (55 percent).
- 2009: Estimate extrapolated from 2007 level (55 percent).

Gabon - survey details

1999 Enquête Démographique et de Santé, Gabon 2000, 2001

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	Card	61	12-23 m	803	63
BCG	Card or History	89	12-23 m	803	63
BCG	History	28	12-23 m	803	63
BCG	C or H <12 months	88	12-23 m	803	63
DTP1	C or H <12 months	67	12-23 m	803	63
DTP1	Card	48	12-23 m	803	63
DTP1	Card or History	69	12-23 m	803	63
DTP1	History	22	12-23 m	803	63
DTP3	C or H <12 months	36	12-23 m	803	63
DTP3	Card	31	12-23 m	803	63
DTP3	Card or History	38	12-23 m	803	63
DTP3	History	6	12-23 m	803	63
MCV	Card or History	55	12-23 m	803	63

MCV	Card	39	12-23 m	803	63
MCV	History	16	12-23 m	803	63
MCV	C or H <12 months	44	12-23 m	803	63
Pol1	C or H <12 months	82	12-23 m	803	63
Pol1	Card	52	12-23 m	803	63
Pol1	Card or History	84	12-23 m	803	63
Pol1	History	32	12-23 m	803	63
Pol3	C or H <12 months	26	12-23 m	803	63
Pol3	Card	27	12-23 m	803	63
Pol3	Card or History	28	12-23 m	803	63
Pol3	History	1	12-23 m	803	63
YFV	History	13	12-23 m	803	63
YFV	C or H <12 months	2	12-23 m	803	63
YFV	Card	11	12-23 m	803	63
YFV	Card or History	24	12-23 m	803	63

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

Gabon

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	36
1998	40
1999	46
2000	39
2001	42
2002	64
2003	53
2004	58
2005	58
2006	63
2007	67
2008	73
2009	75

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.