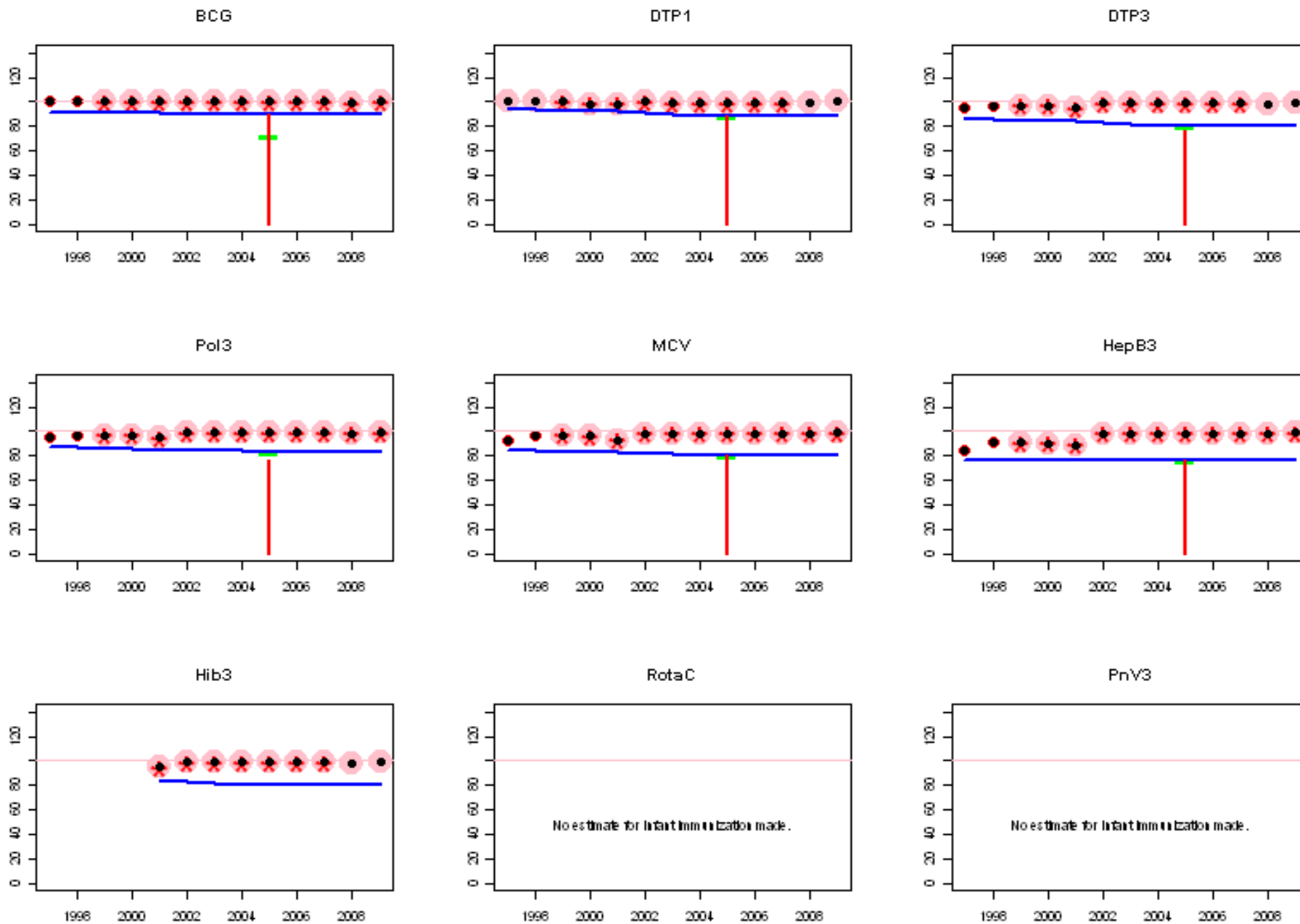
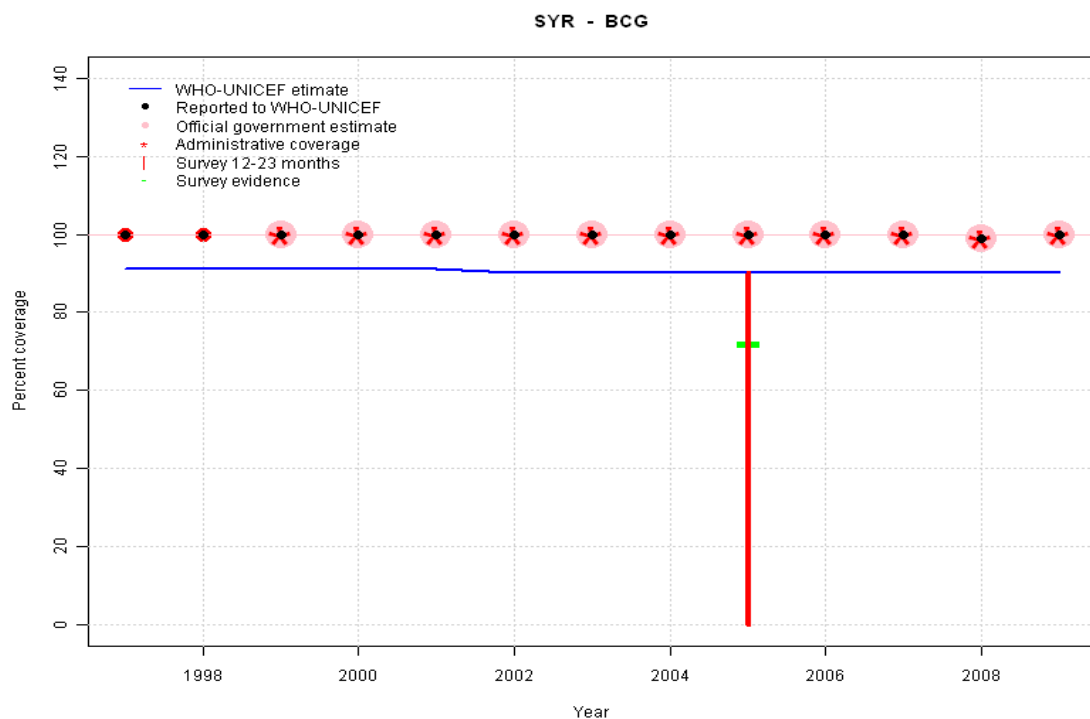


Syrian Arab Republic: WHO and UNICEF estimates of immunization coverage, 1997 - 2009



Syrian Arab Republic - BCG

Description:

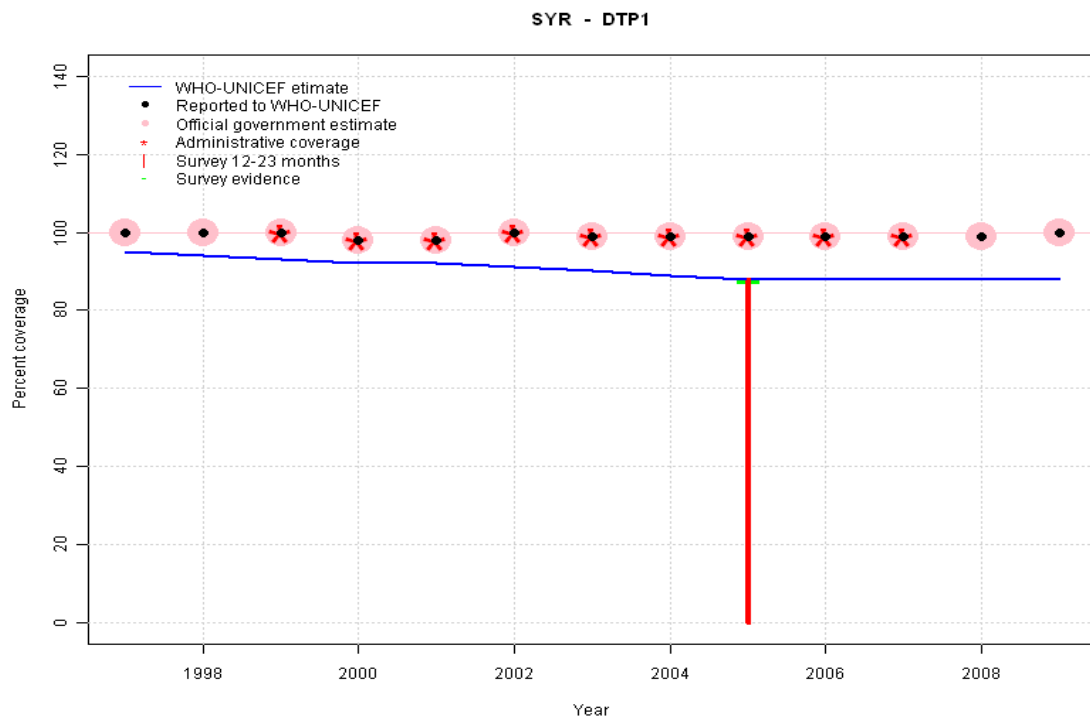


- 1997: Legacy estimate.
- 1998: Estimate interpolated between 1997 and 2005 estimates.
- 1999: Estimate interpolated between 1997 and 2005 estimates.
- 2000: Estimate interpolated between 1997 and 2005 estimates.
- 2001: Estimate interpolated between 1997 and 2005 estimates.
- 2002: Estimate interpolated between 1997 and 2005 estimates.
- 2003: Estimate interpolated between 1997 and 2005 estimates.
- 2004: Estimate interpolated between 1997 and 2005 estimates.
- 2005: Estimate is based on survey results for all antigens. Estimates for other vaccines referenced to survey data point. Estimate for BCG based on survey results.
- 2006: Estimate extrapolated from 2005 level (90 percent).
- 2007: Estimate extrapolated from 2005 level (90 percent).
- 2008: Estimate extrapolated from 2005 level (90 percent).
- 2009: Estimate extrapolated from 2005 level (90 percent).

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Estimate	91	91	91	91	91	90	90	90	90	90	90	90	90
Reported	100	100	100	100	100	100	100	100	100	100	100	99	100
Official	NA	NA	100	100	100	100	100	100	100	100	100	99	100
Administrative	NA	NA	100	100	100	100	100	100	100	100	100	99	100
Survey	NA	NA	NA	NA	NA	NA	NA	NA	72	NA	NA	NA	NA

Syrian Arab Republic - DTP1

Description:

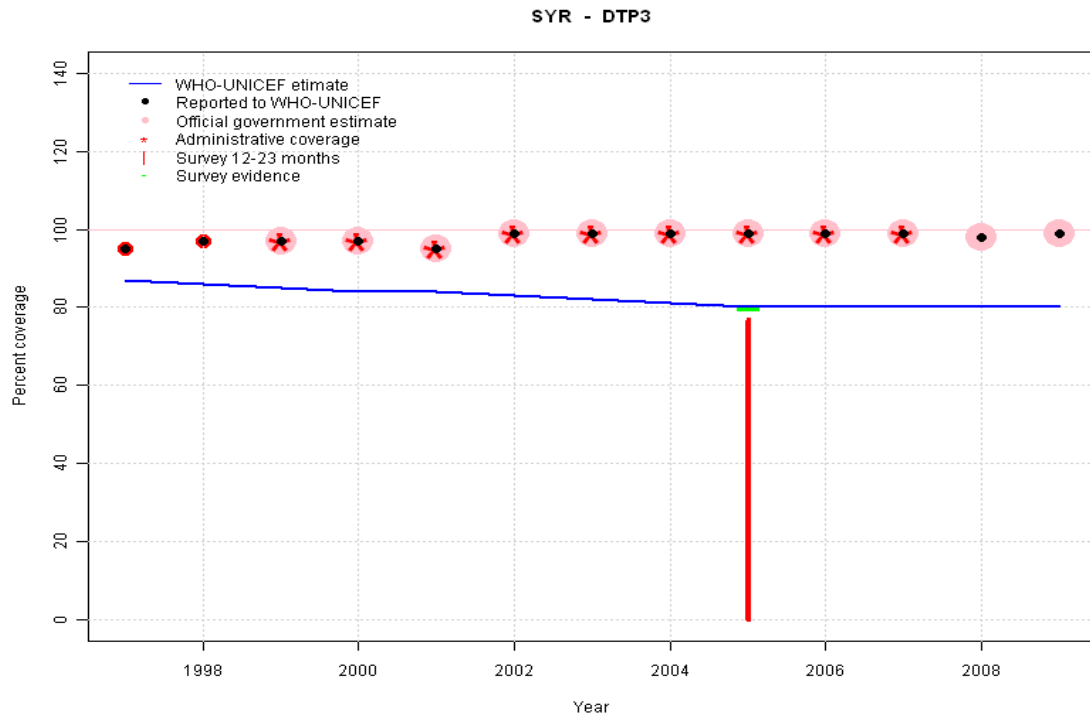


- 1997: Legacy estimate.
- 1998: Estimate interpolated between 1997 and 2005 estimates.
- 1999: Estimate interpolated between 1997 and 2005 estimates.
- 2000: Estimate interpolated between 1997 and 2005 estimates.
- 2001: Estimate interpolated between 1997 and 2005 estimates.
- 2002: Estimate interpolated between 1997 and 2005 estimates.
- 2003: Estimate interpolated between 1997 and 2005 estimates.
- 2004: Estimate interpolated between 1997 and 2005 estimates.
- 2005: Estimate based on survey results. Reported data (99 percent) not consistent with survey results (88 percent).
- 2006: Estimate extrapolated from 2005 level (88 percent).
- 2007: Estimate extrapolated from 2005 level (88 percent).
- 2008: Estimate extrapolated from 2005 level (88 percent).
- 2009: Estimate extrapolated from 2005 level (88 percent).

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Estimate	95	94	93	92	92	91	90	89	88	88	88	88	88
Reported	100	100	100	98	98	100	99	99	99	99	99	99	100
Official	100	100	100	98	98	100	99	99	99	99	99	99	100
Administrative	NA	NA	100	98	98	100	99	99	99	99	99	NA	NA
Survey	NA	NA	NA	NA	NA	NA	NA	NA	88	NA	NA	NA	NA

Syrian Arab Republic - DTP3

Description:

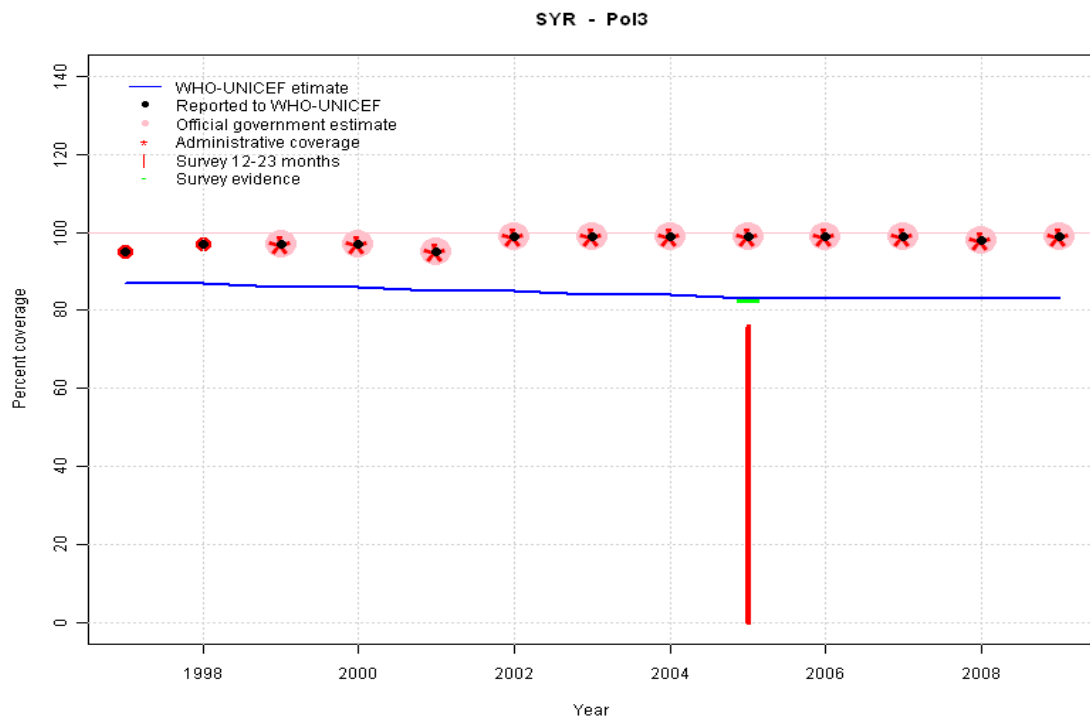


- 1997: Legacy estimate.
 1998: Estimate interpolated between 1997 and 2005 estimates.
 1999: Estimate interpolated between 1997 and 2005 estimates.
 2000: Estimate interpolated between 1997 and 2005 estimates.
 2001: Estimate interpolated between 1997 and 2005 estimates.
 2002: Estimate interpolated between 1997 and 2005 estimates.
 2003: Estimate interpolated between 1997 and 2005 estimates.
 2004: Estimate interpolated between 1997 and 2005 estimates.
 2005: Estimate based on survey results. Reported data (99 percent) not consistent with survey results (80 percent). Survey results (77 percent) adjusted for recall bias to 80 percent based on first dose card or history coverage (88 percent) and documented drop-out between first (57 percent) and third (52 percent) doses.
 2006: Estimate extrapolated from 2005 level (80 percent).
 2007: Estimate extrapolated from 2005 level (80 percent).
 2008: Estimate extrapolated from 2005 level (80 percent).
 2009: Estimate extrapolated from 2005 level (80 percent).

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Estimate	87	86	85	84	84	83	82	81	80	80	80	80	80
Reported	95	97	97	97	95	99	99	99	99	99	99	98	99
Official	NA	NA	97	97	95	99	99	99	99	99	99	98	99
Administrative	NA	NA	97	97	95	99	99	99	99	99	99	NA	NA
Survey	NA	NA	NA	NA	NA	NA	NA	NA	80	NA	NA	NA	NA

Syrian Arab Republic - Pol3

Description:

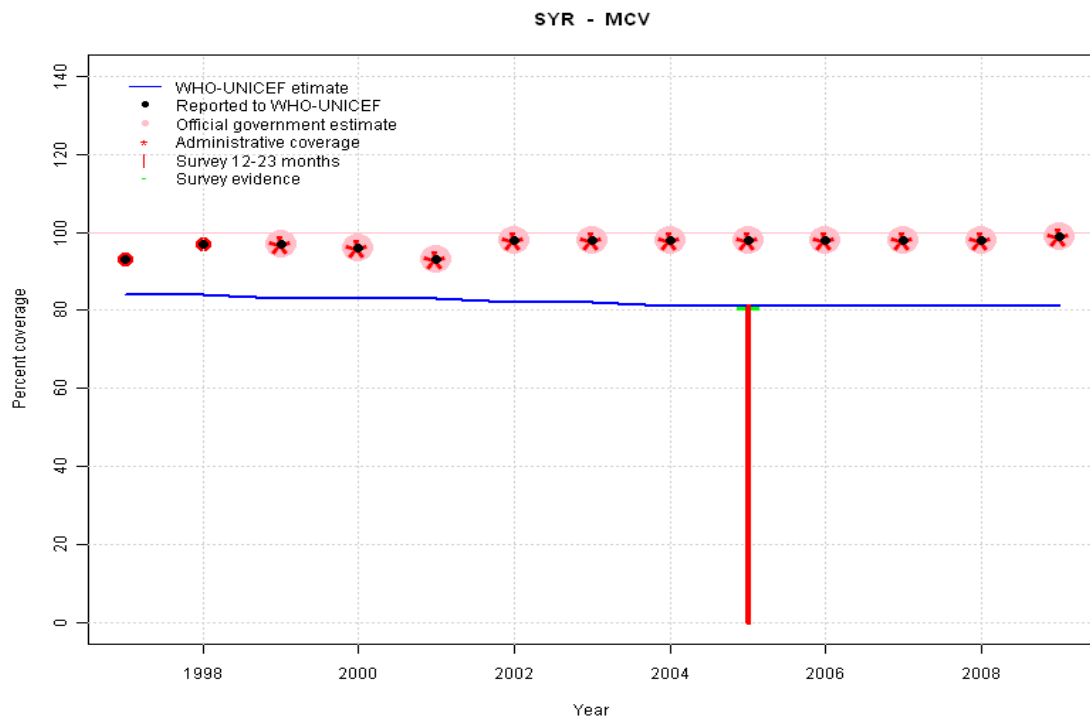


- 1997: Legacy estimate.
- 1998: Estimate interpolated between 1997 and 2005 estimates.
- 1999: Estimate interpolated between 1997 and 2005 estimates.
- 2000: Estimate interpolated between 1997 and 2005 estimates.
- 2001: Estimate interpolated between 1997 and 2005 estimates.
- 2002: Estimate interpolated between 1997 and 2005 estimates.
- 2003: Estimate interpolated between 1997 and 2005 estimates.
- 2004: Estimate interpolated between 1997 and 2005 estimates.
- 2005: Estimate based on survey results. Reported data (99 percent) not consistent with survey results (83 percent). Survey results (76 percent) adjusted for recall bias to 83 percent based on first dose card or history coverage (89 percent) and documented drop-out between first (56 percent) and third (52 percent) doses.
- 2006: Estimate extrapolated from 2005 level (83 percent).
- 2007: Estimate extrapolated from 2005 level (83 percent).
- 2008: Estimate extrapolated from 2005 level (83 percent).
- 2009: Estimate extrapolated from 2005 level (83 percent).

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Estimate	87	87	86	86	85	85	84	84	83	83	83	83	83
Reported	95	97	97	97	95	99	99	99	99	99	99	98	99
Official	NA	NA	97	97	95	99	99	99	99	99	99	98	99
Administrative	NA	NA	97	97	95	99	99	99	99	99	99	98	99
Survey	NA	NA	NA	NA	NA	NA	NA	NA	83	NA	NA	NA	NA

Syrian Arab Republic - MCV

Description:

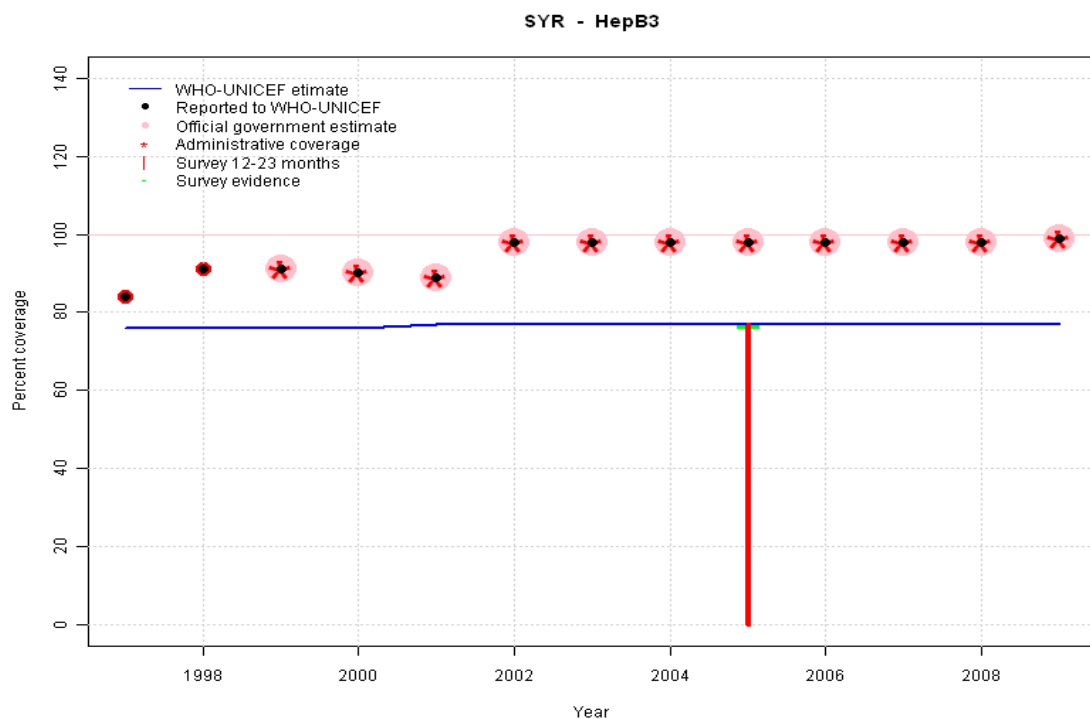


- 1997: Legacy estimate.
- 1998: Estimate interpolated between 1997 and 2005 estimates.
- 1999: Estimate interpolated between 1997 and 2005 estimates.
- 2000: Estimate interpolated between 1997 and 2005 estimates.
- 2001: Estimate interpolated between 1997 and 2005 estimates.
- 2002: Estimate interpolated between 1997 and 2005 estimates.
- 2003: Estimate interpolated between 1997 and 2005 estimates.
- 2004: Estimate interpolated between 1997 and 2005 estimates.
- 2005: Estimate based on survey results. Reported data (98 percent) not consistent with survey results (81 percent).
- 2006: Estimate extrapolated from 2005 level (81 percent).
- 2007: Estimate extrapolated from 2005 level (81 percent).
- 2008: Estimate extrapolated from 2005 level (81 percent).
- 2009: Estimate extrapolated from 2005 level (81 percent).

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Estimate	84	84	83	83	83	82	82	81	81	81	81	81	81
Reported	93	97	97	96	93	98	98	98	98	98	98	98	99
Official	NA	NA	97	96	93	98	98	98	98	98	98	98	99
Administrative	NA	NA	97	96	93	98	98	98	98	98	98	98	99
Survey	NA	NA	NA	NA	NA	NA	NA	NA	81	NA	NA	NA	NA

Syrian Arab Republic - HepB3

Description:

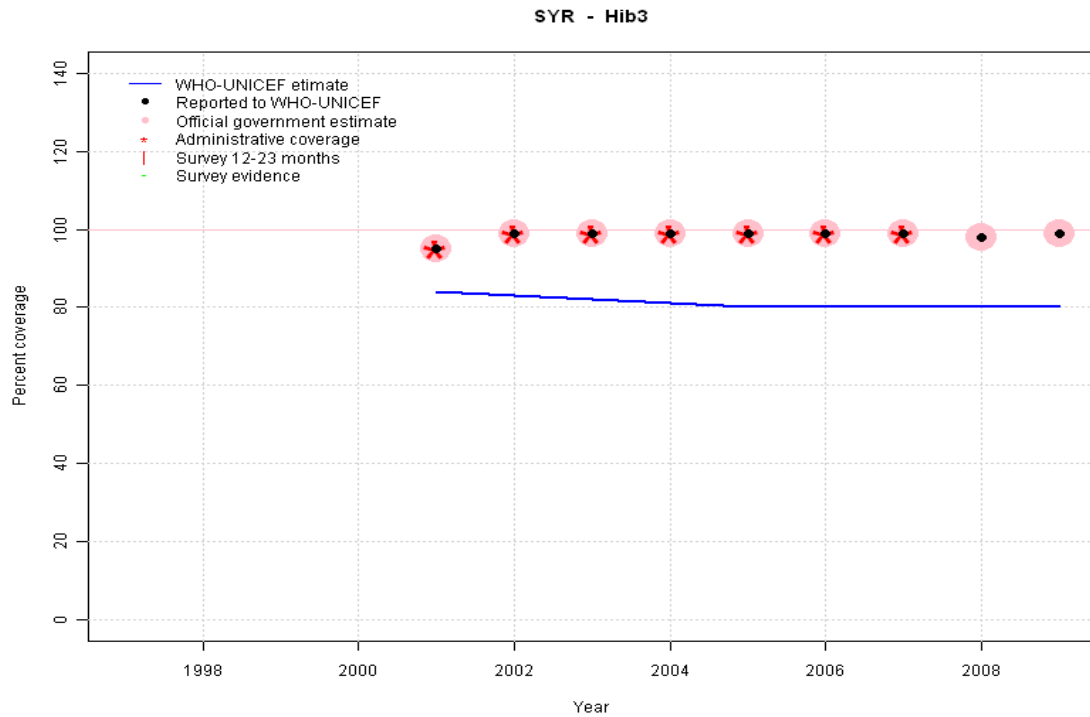


- 1997: Legacy estimate.
- 1998: Estimate based on working group decision to interpolated between 1997 and 2005. Vaccine to vaccine consistency
- 1999: Estimate based on working group decision to interpolated between 1997 and 2005. Vaccine to vaccine consistency
- 2000: Estimate based on working group decision to interpolated between 1997 and 2005. Vaccine to vaccine consistency
- 2001: Estimate based on working group decision to interpolated between 1997 and 2005. Vaccine to vaccine consistency
- 2002: Estimate based on working group decision to interpolated between 1997 and 2005. Vaccine to vaccine consistency
- 2003: Estimate based on working group decision to interpolated between 1997 and 2005. Vaccine to vaccine consistency
- 2004: Estimate based on working group decision to interpolated between 1997 and 2005. Vaccine to vaccine consistency
- 2005: Estimate based on survey results. Reported data (98 percent) not consistent with survey results (77 percent).
- 2006: Estimate extrapolated from 2005 level (77 percent).
- 2007: Estimate extrapolated from 2005 level (77 percent).
- 2008: Estimate extrapolated from 2005 level (77 percent).
- 2009: Estimate extrapolated from 2005 level (77 percent).

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Estimate	76	76	76	76	77	77	77	77	77	77	77	77	77
Reported	84	91	91	90	89	98	98	98	98	98	98	98	99
Official	NA	NA	91	90	89	98	98	98	98	98	98	98	99
Administrative	NA	NA	91	90	89	98	98	98	98	98	98	98	99
Survey	NA	NA	NA	NA	NA	NA	NA	NA	77	NA	NA	NA	NA

Syrian Arab Republic - Hib3

Description:



2001: Estimated immunization coverage levels are based on DTP3 estimates. Hib introduced in 2001

2002: Estimated immunization coverage levels are based on DTP3 estimates.

2003: Estimated immunization coverage levels are based on DTP3 estimates.

2004: Estimated immunization coverage levels are based on DTP3 estimates.

2005: Estimated immunization coverage levels are based on DTP3 estimates.

2006: Estimate extrapolated from 2005 level (80 percent).

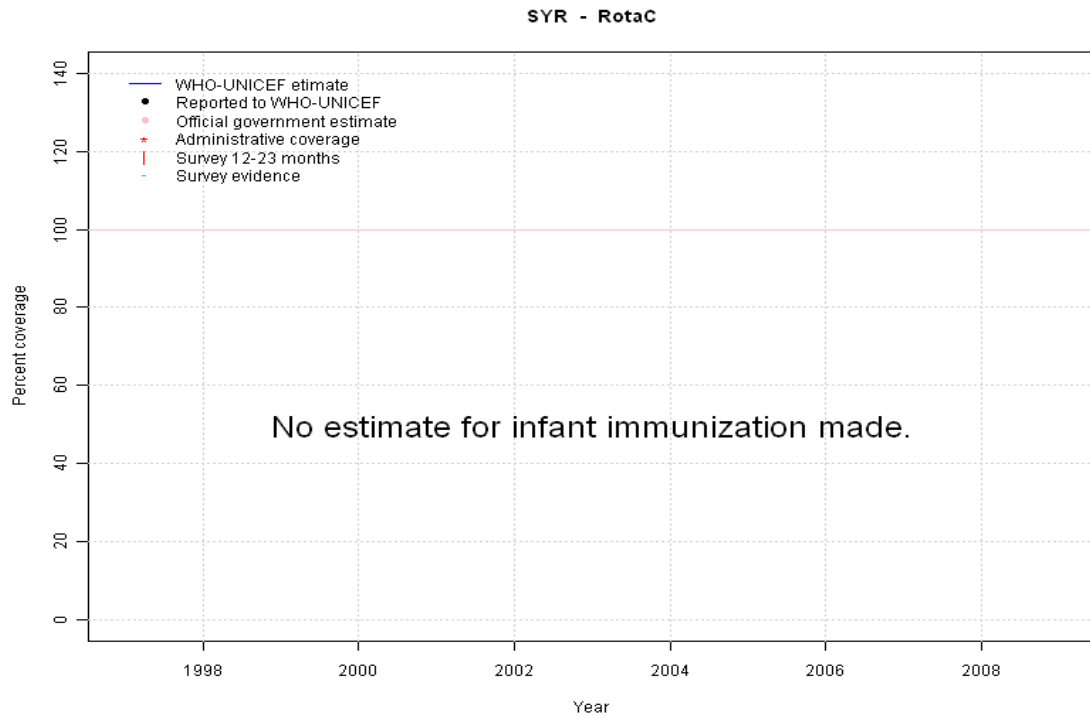
2007: Estimate extrapolated from 2005 level (80 percent).

2008: Estimate extrapolated from 2005 level (80 percent).

2009: Estimate extrapolated from 2005 level (80 percent).

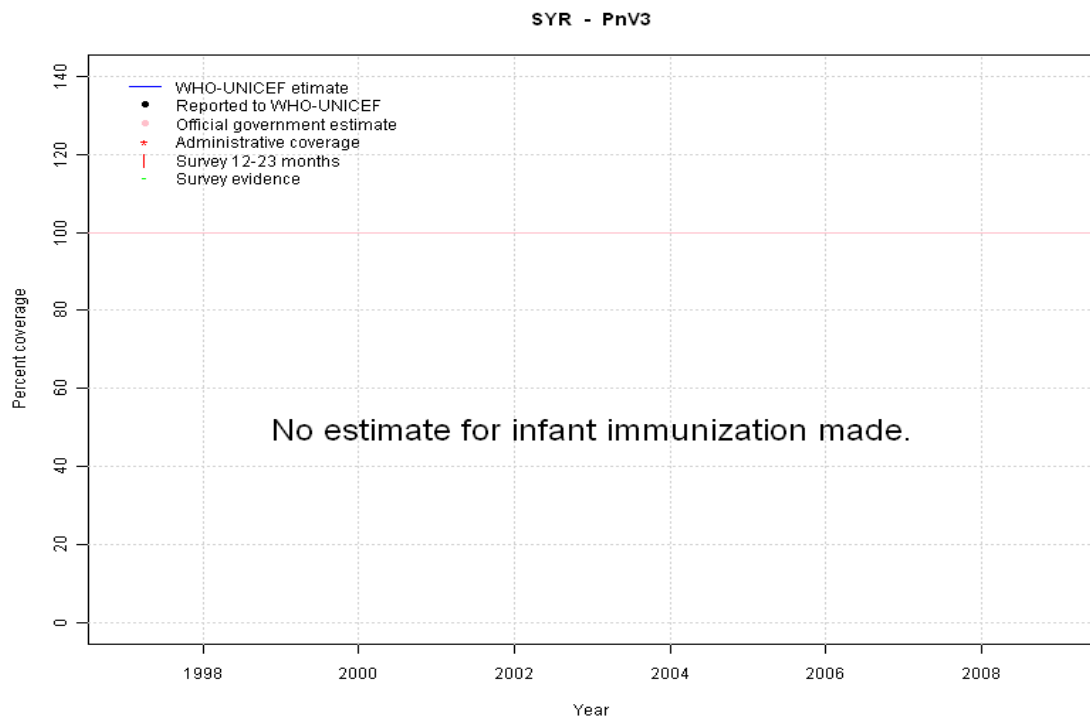
	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Estimate	NA	NA	NA	NA	84	83	82	81	80	80	80	80	80
Reported	NA	NA	NA	NA	95	99	99	99	99	99	99	98	99
Official	NA	NA	NA	NA	95	99	99	99	99	99	99	98	99
Administrative	NA	NA	NA	NA	95	99	99	99	99	99	99	NA	NA
Survey	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Syrian Arab Republic - 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

Syrian Arab Republic - 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

Syrian Arab Republic - survey details

2005 Syrian Arab Republic Multiple Indicator Cluster Survey 2006

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	Card	57	12-23 m	2083	55
BCG	Card or History	90	12-23 m	2083	55
BCG	History	33	12-23 m	2083	55
BCG	C or H <12 months	90	12-23 m	2083	55
DTP1	History	31	12-23 m	2083	55
DTP1	C or H <12 months	88	12-23 m	2083	55
DTP1	Card	57	12-23 m	2083	55
DTP1	Card or History	88	12-23 m	2083	55
DTP3	History	24	12-23 m	2083	55
DTP3	Card or History	77	12-23 m	2083	55
DTP3	C or H <12 months	74	12-23 m	2083	55
DTP3	Card	52	12-23 m	2083	55
HepB1	Card or History	89	12-23 m	2083	55
HepB1	C or H <12 months	89	12-23 m	2083	55

HepB1	Card	57	12-23 m	2083	55
HepB1	History	31	12-23 m	2083	55
HepB3	Card	53	12-23 m	2083	55
HepB3	Card or History	77	12-23 m	2083	55
HepB3	History	24	12-23 m	2083	55
HepB3	C or H <12 months	71	12-23 m	2083	55
MCV	History	29	12-23 m	2083	55
MCV	C or H <12 months	74	12-23 m	2083	55
MCV	Card	52	12-23 m	2083	55
MCV	Card or History	81	12-23 m	2083	55
Pol1	History	33	12-23 m	2083	55
Pol1	Card or History	89	12-23 m	2083	55
Pol1	C or H <12 months	88	12-23 m	2083	55
Pol1	Card	56	12-23 m	2083	55
Pol3	History	24	12-23 m	2083	55
Pol3	C or H <12 months	74	12-23 m	2083	55
Pol3	Card	52	12-23 m	2083	55
Pol3	Card or History	76	12-23 m	2083	55

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

Syrian Arab 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.

From 1996 onward, reported PAB estimates have been used.

Year	PAB coverage estimate (%)
1997	79
1998	82
1999	86
2000	90
2001	90
2002	90
2003	92
2004	91
2005	92
2006	93
2007	92
2008	94
2009	94

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.