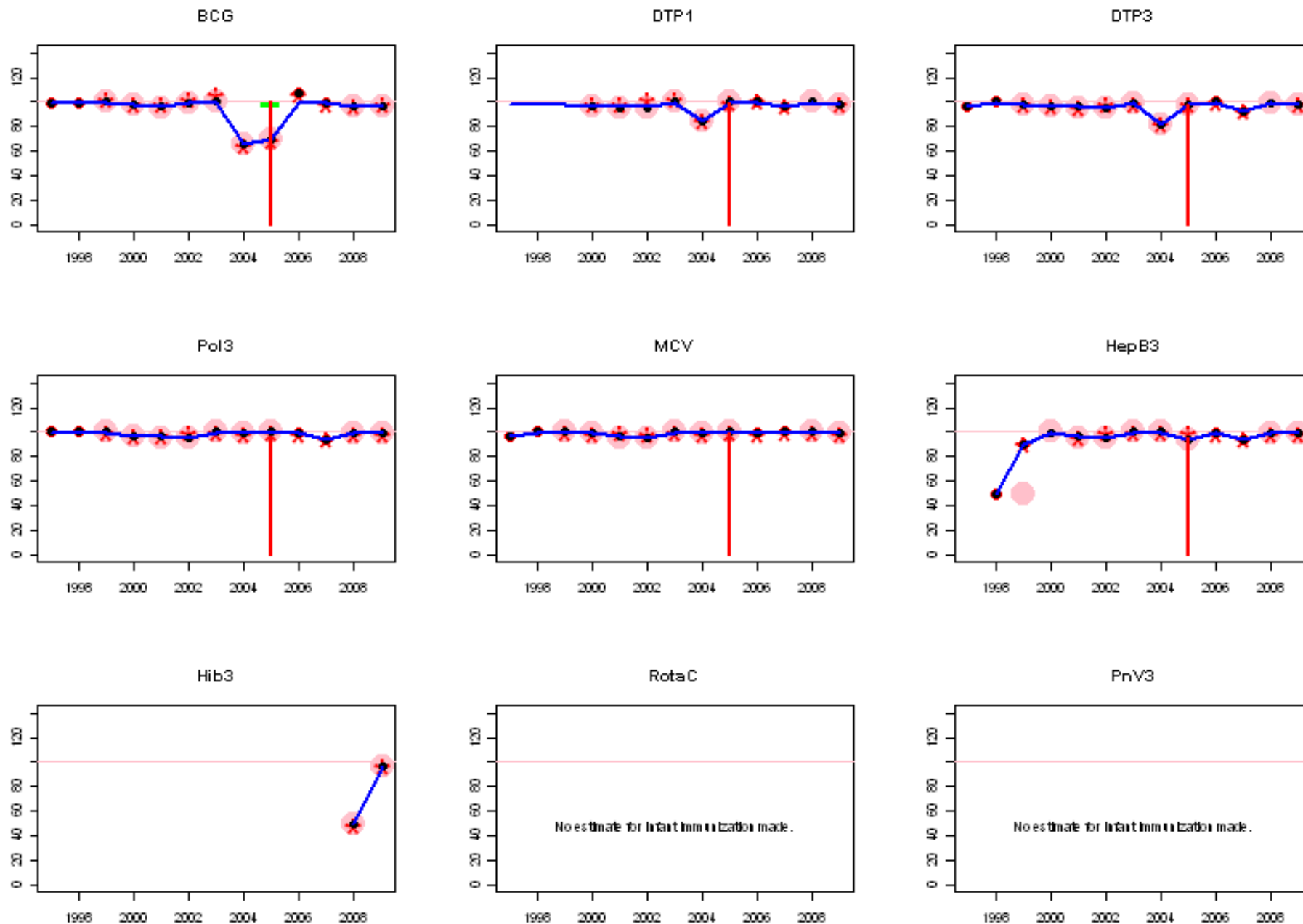
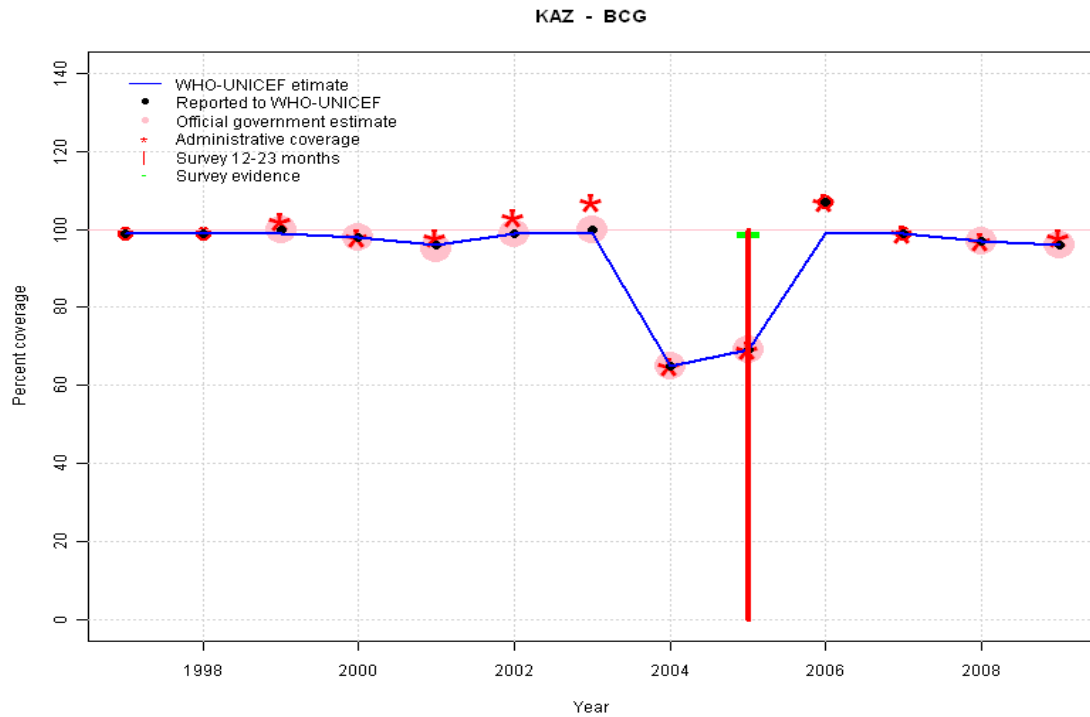


Kazakhstan: WHO and UNICEF estimates of immunization coverage, 1997 - 2009



Kazakhstan - BCG

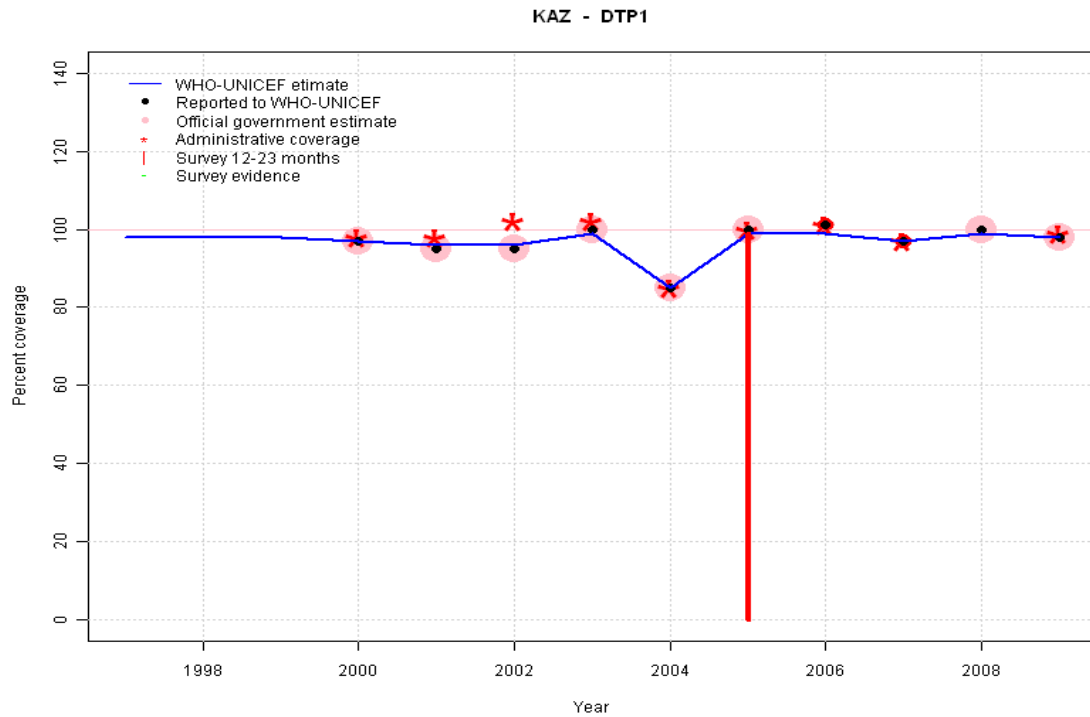
Description:



- 1997: Legacy estimate.
- 1998: Estimate based on reported data.
- 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. Decline is the result of five months of vaccine stock out.
- 2005: Decline is the result of five months of vaccine stock out. MICH 2006 survey result represents catch-up following 2004-2005 stock out.
- 2006: Estimate assigned by working group. MICH 2006 survey result represents catch-up following 2004-2005 stock out. 2006 reported data (107 percent) ignored; greater than 100 percent.
- 2007: Estimate based on reported data.
- 2008: Estimate based on reported data.
- 2009: Estimate based on reported data.

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Estimate	99	99	99	98	96	99	99	65	69	99	99	97	96
Reported	99	99	100	98	96	99	100	65	69	107	99	97	96
Official	NA	NA	100	98	95	99	100	65	69	NA	NA	97	96
Administrative	NA	NA	102	98	98	103	107	65	69	107	99	97	98
Survey	NA	NA	NA	NA	NA	NA	NA	NA	99	NA	NA	NA	NA

Kazakhstan - DTP1



Description:

1997: Legacy estimate.

1998: Estimated DTP3 greater than estimated DTP1; DTP1 estimate based on the relationship between DTP1 and DTP3 from 282 surveys.

1999: Estimated DTP3 greater than estimated DTP1; DTP1 estimate based on the relationship between DTP1 and DTP3 from 282 surveys.

2000: Reported data (97 percent) calibrated to 1997 and 2005 levels.

2001: Reported data (95 percent) calibrated to 1997 and 2005 levels.

2002: Reported data (95 percent) calibrated to 1997 and 2005 levels.

2003: Reported data (99 percent) calibrated to 1997 and 2005 levels.

2004: Reported data (85 percent) calibrated to 1997 and 2005 levels. Decline results from three month vaccine stock out.

2005: Estimate based on reported data (99 percent) confirmed by survey (99 percent).

2006: Estimate based on trend in reported data. Missing or ignored reported value estimated by interpolation between reported values of 100 percent in 2005 and 97 percent in 2007. 2006 reported data (101 percent) ignored; greater than 100 percent.

2007: Estimate based on reported data.

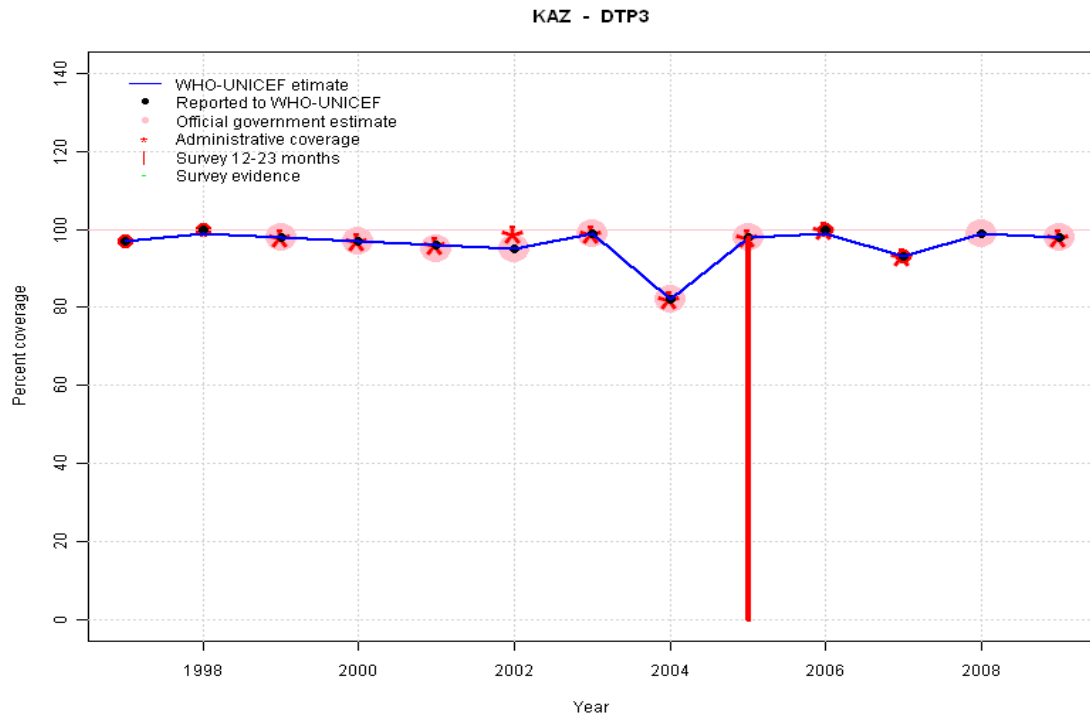
2008: Estimate based on reported data.

2009: Estimate based on reported data.

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Estimate	98	98	98	97	96	96	99	85	99	99	97	99	98
Reported	NA	NA	NA	97	95	95	100	85	100	101	97	100	98
Official	NA	NA	NA	97	95	95	100	85	100	NA	NA	100	98
Administrative	NA	NA	NA	98	98	102	102	85	100	101	97	NA	99
Survey	NA	NA	NA	NA	NA	NA	NA	NA	99	NA	NA	NA	NA

Kazakhstan - DTP3

Description:

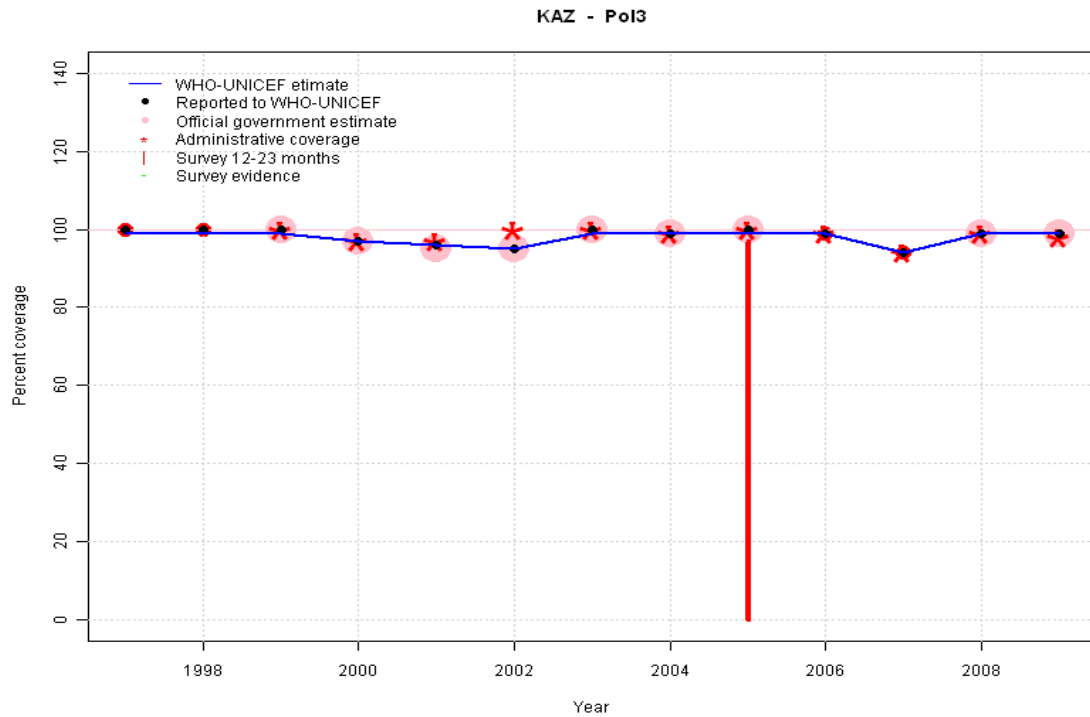


- 1997: Legacy estimate.
- 1998: Estimate based on reported data.
- 1999: Estimate based on reported data.
- 2000: Estimate based on reported data.
- 2001: Estimate based on reported data.
- 2002: Estimate based on reported data.
- 2003: Estimate based on reported data.
- 2004: Estimate based on reported data. Decline results from three month vaccine stock out.
- 2005: Estimate based on reported data (98 percent) confirmed by survey (99 percent). Survey results (98 percent) adjusted for recall bias to 99 percent based on first dose card or history coverage (99 percent) and documented drop-out between first (96 percent) and third (96 percent) doses.
- 2006: Estimate based on reported data.
- 2007: Estimate based on reported data.
- 2008: Estimate based on reported data.
- 2009: Estimate based on reported data.

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Estimate	97	99	98	97	96	95	99	82	98	99	93	99	98
Reported	97	100	98	97	96	95	99	82	98	100	93	99	98
Official	NA	NA	98	97	95	95	99	82	98	NA	NA	99	98
Administrative	NA	NA	98	97	96	99	99	82	98	100	93	NA	98
Survey	NA	NA	NA	NA	NA	NA	NA	NA	99	NA	NA	NA	NA

Kazakhstan - Pol3

Description:

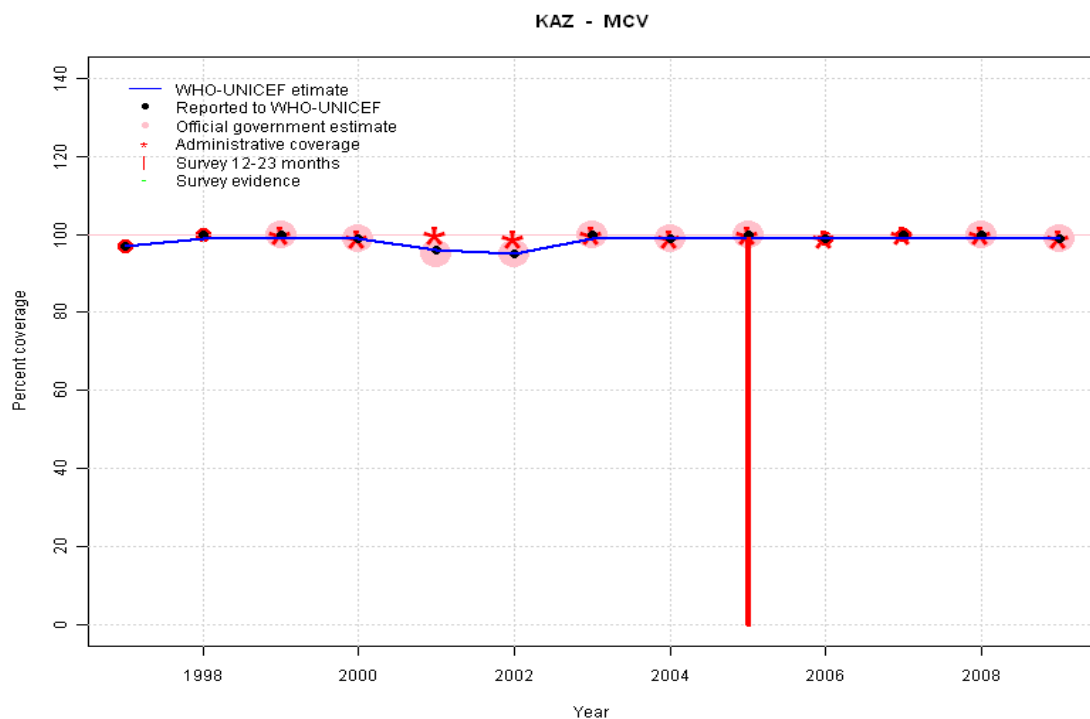


- 1997: Legacy estimate.
- 1998: Estimate based on reported data.
- 1999: Estimate based on reported data.
- 2000: Estimate based on reported data.
- 2001: Estimate based on reported data.
- 2002: Estimate based on reported data.
- 2003: Estimate based on reported data.
- 2004: Estimate based on reported data.
- 2005: Estimate based on reported data (99 percent) confirmed by survey (99 percent). Survey results (97 percent) adjusted for recall bias to 99 percent based on first dose card or history coverage (100 percent) and documented drop-out between first (95 percent) and third (95 percent) doses.
- 2006: Estimate based on reported data.
- 2007: Estimate based on reported data.
- 2008: Estimate based on reported data.
- 2009: Estimate based on reported data.

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Estimate	99	99	99	97	96	95	99	99	99	99	94	99	99
Reported	100	100	100	97	96	95	100	99	100	99	94	99	99
Official	NA	NA	100	97	95	95	100	99	100	NA	NA	99	99
Administrative	NA	NA	100	97	97	100	100	99	100	99	94	99	98
Survey	NA	NA	NA	NA	NA	NA	NA	NA	99	NA	NA	NA	NA

Kazakhstan - MCV

Description:

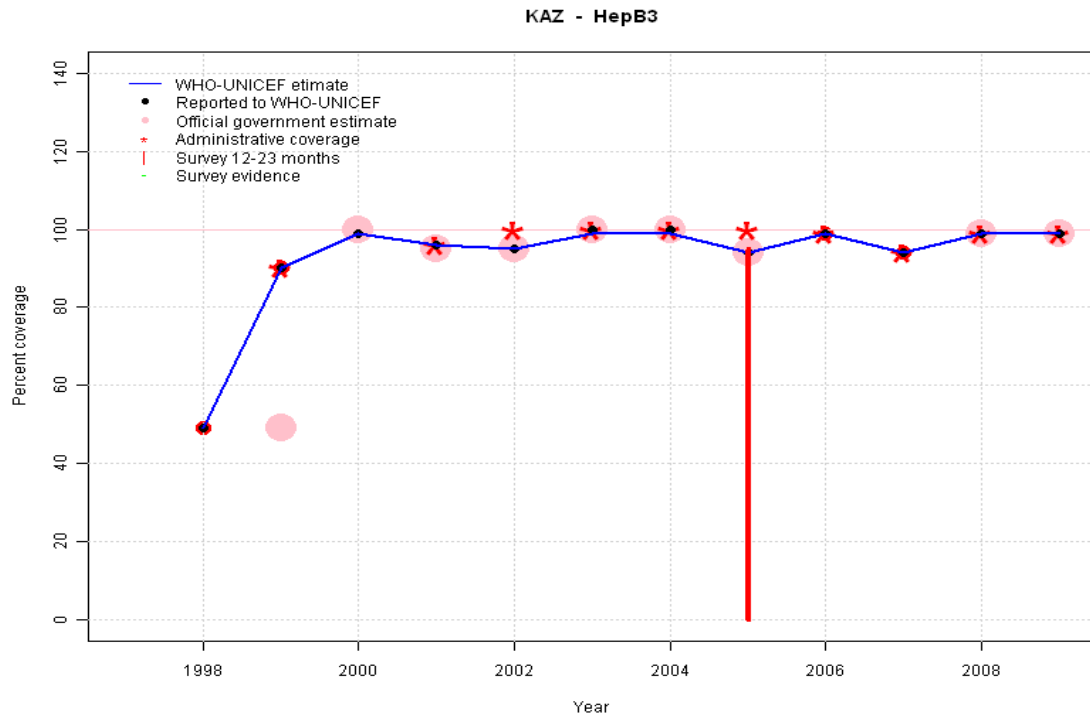


1997: Legacy estimate.
 1998: Estimate based on reported data.
 1999: Estimate based on reported data.
 2000: Estimate based on reported data.
 2001: Estimate based on reported data.
 2002: Estimate based on reported data.
 2003: Estimate based on reported data.
 2004: Estimate based on reported data.
 2005: Estimate based on reported data (99 percent) confirmed by survey (99 percent).
 2006: Estimate based on reported data.
 2007: Estimate based on reported data.
 2008: Estimate based on reported data.
 2009: Estimate based on reported data.

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Estimate	97	99	99	99	96	95	99	99	99	99	99	99	99
Reported	97	100	100	99	96	95	100	99	100	99	100	100	99
Official	NA	NA	100	99	95	95	100	99	100	NA	NA	100	99
Administrative	NA	NA	100	99	100	99	100	99	100	99	100	100	99
Survey	NA	NA	NA	NA	NA	NA	NA	NA	99	NA	NA	NA	NA

Kazakhstan - HepB3

Description:



- 1998: Estimate based on trend in reported data. HepB introduced in 1998
- 1999: Estimate based on trend in reported data.
- 2000: Estimate based on trend in reported data.
- 2001: Estimate based on trend in reported data.
- 2002: Estimate based on trend in reported data.
- 2003: Estimate based on trend in reported data.
- 2004: Estimate based on trend in reported data.
- 2005: Estimate based on reported data (94 percent) confirmed by survey (95 percent).
- 2006: Estimate based on reported data.
- 2007: Estimate based on reported data.
- 2008: Estimate based on reported data.
- 2009: Estimate based on reported data.

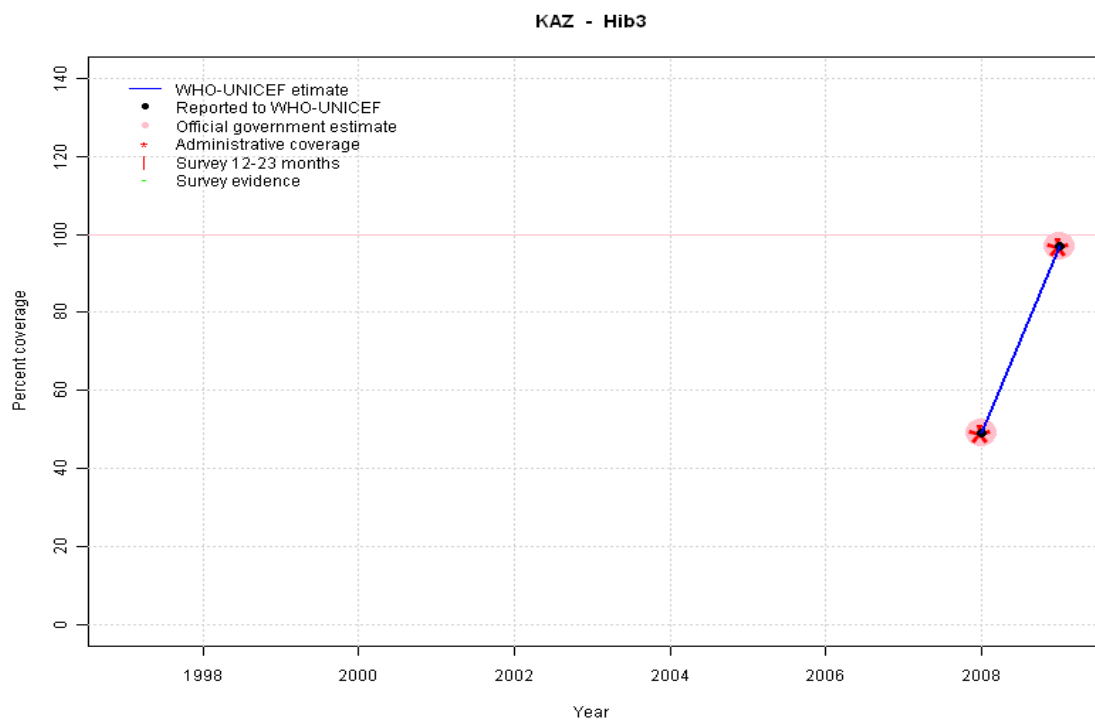
	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Estimate	NA	49	90	99	96	95	99	99	94	99	94	99	99
Reported	NA	49	90	99	96	95	100	100	94	99	94	99	99
Official	NA	NA	49	100	95	95	100	100	94	NA	NA	99	99
Administrative	NA	NA	90	NA	96	100	100	100	100	99	94	99	99
Survey	NA	NA	NA	NA	NA	NA	NA	NA	95	NA	NA	NA	NA

Kazakhstan - Hib3

Description:

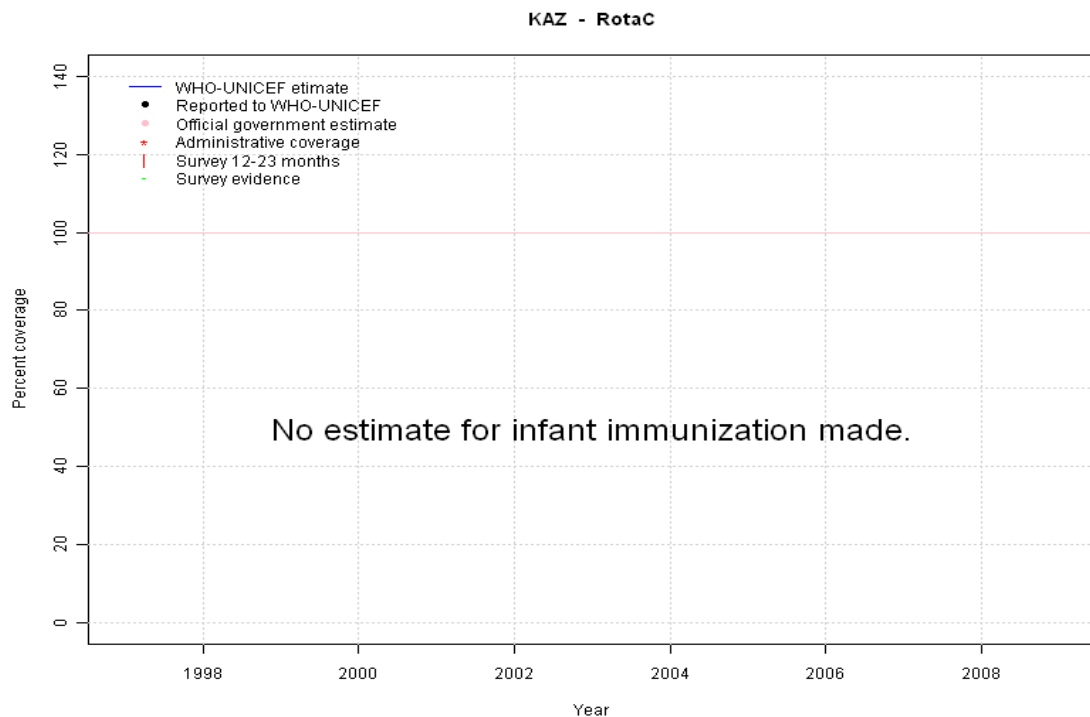
2008: Estimate based on reported data. Hib introduced in 2008

2009: Estimate based on reported data. Increase attributed to successful introduction.



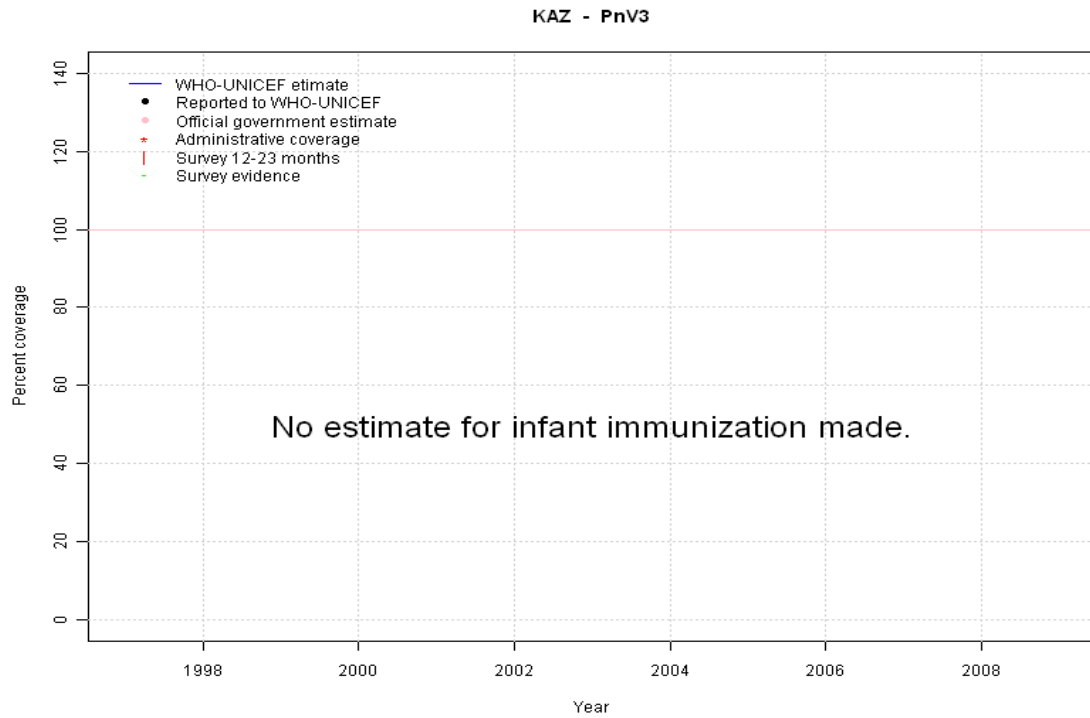
	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Estimate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	49	97
Reported	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	49	97
Official	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	49	97
Administrative	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	49	97
Survey	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Kazakhstan - 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

Kazakhstan - 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

Kazakhstan - survey details

2005 Kazakhstan Multiple Indicator Cluster Survey 2006

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	Card or History	100	15-26 m	991	95
BCG	C or H <12 months	98	15-26 m	991	95
BCG	Card	95	15-26 m	991	95
BCG	History	4	15-26 m	991	95
DTP1	C or H <12 months	98	15-26 m	991	95
DTP1	Card	96	15-26 m	991	95
DTP1	Card or History	99	15-26 m	991	95
DTP1	History	4	15-26 m	991	95
DTP3	C or H <12 months	92	15-26 m	991	95
DTP3	Card	96	15-26 m	991	95
DTP3	Card or History	98	15-26 m	991	95
DTP3	History	2	15-26 m	991	95
HepB1	Card	95	15-26 m	991	95
HepB1	Card or History	95	15-26 m	991	95
HepB1	History	0	15-26 m	991	95
HepB1	C or H <12 months	94	15-26 m	991	95
HepB3	C or H <12 months	92	15-26 m	991	95
HepB3	Card	95	15-26 m	991	95
HepB3	Card or History	95	15-26 m	991	95
HepB3	History	0	15-26 m	991	95
MCV	C or H <12 months	95	15-26 m	991	95

MCV	Card	96	15-26 m	991	95
MCV	Card or History	99	15-26 m	991	95
MCV	History	4	15-26 m	991	95
Pol1	Card or History	100	15-26 m	991	95
Pol1	Card	95	15-26 m	991	95
Pol1	C or H <12 months	99	15-26 m	991	95
Pol1	History	4	15-26 m	991	95
Pol3	C or H <12 months	94	15-26 m	991	95
Pol3	Card or History	97	15-26 m	991	95
Pol3	History	1	15-26 m	991	95
Pol3	Card	95	15-26 m	991	95

1998 Kazakhstan Demographic and Health Survey 1999, 2000

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	Card	90	12-23 m	244	91
DTP1	Card	90	12-23 m	244	91
DTP3	Card	89	12-23 m	244	91
MCV	Card	79	12-23 m	244	91
Pol1	Card	90	12-23 m	244	91
Pol3	Card	83	12-23 m	244	91

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