

**WHO/UNICEF  
Review of National Immunization Coverage  
1980-2008**

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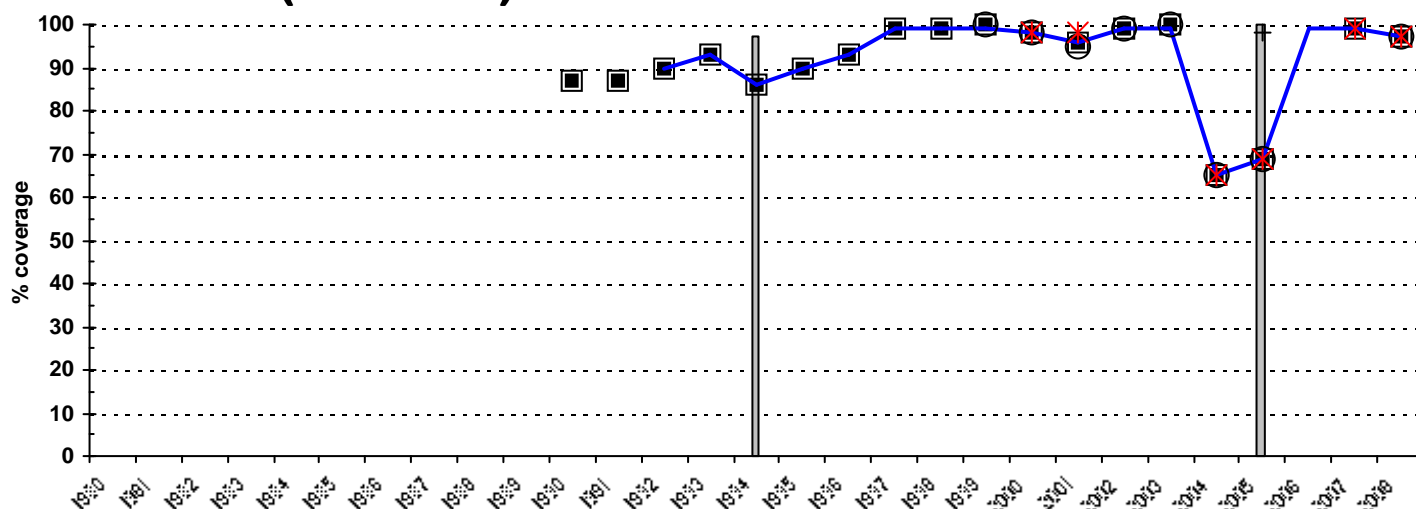
***Kazakhstan***

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**July, 2009**

# Kazakhstan

## BCG (1980-2008)



### Description of trend

Estimated immunization coverage levels are based on reported data. The 1995 DHS is not considered since data collection was based on entire mothers' recall and information from vaccination cards was not available (cards are maintained in health facility). The 1999 DHS (card only data: 91% cards seen) confirms officially reported data. The decline in BCG coverage in 2004-2005 is the result of five months of vaccine stock out. The MICS 2006 survey represents results catch-up following 2004-2005 stock out.

### Data presented in chart

Year	WHO/ UNICEF estimate (%)	Reported to:*		Government official estimate (%)	Reported doses administered (%)**	Survey data (%)***	
		WHO (%)	UNICEF (%)			Survey 12-23 months	Survey <12 months
1980							
1981							
1982							
1983							
1984							
1985							
1986							
1987							
1988							
1989							
1990		87	87				
1991		87	87				
1992	90	90	90				
1993	93	93	93				
1994	86	86	86			97	
1995	90	90	90				
1996	93	93	93				
1997	99	99	99				
1998	99	99	99				
1999	99	100	100	100	102		
2000	98	98	98	98	98		
2001	96	96	96	95	98		
2002	99	99	99	99	103		
2003	99	100	100	100	107		
2004	65	65	65	65	65		
2005	69	69	69	69	69	100	98
2006	99	107	107		107		
2007	99	99	99		99		
2008	97	97	97	97	97		

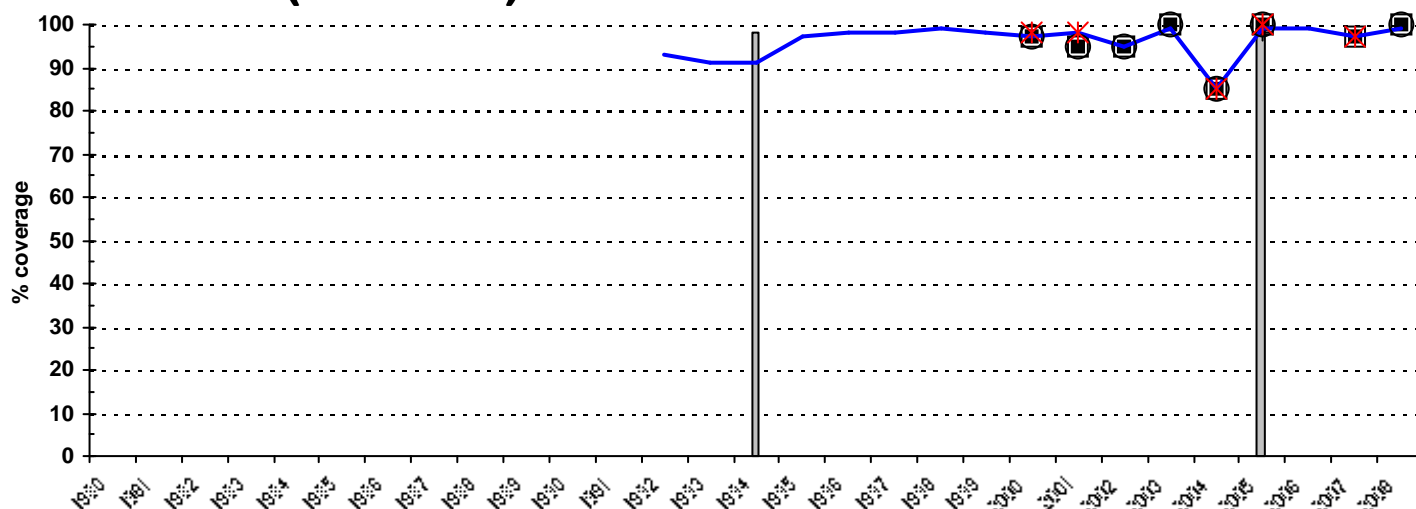
\*Prior to 1998 national reports to WHO/UNICEF did not specify whether information was derived from administrative records, surveys or other sources.

\*\*Coverage based on registration of doses administered by health care providers.

\*\*\*In case more than one survey was implemented in a certain year the highest value is presented. Details of all data are presented in the second section of this report.

# Kazakhstan

## DTP1 (1980-2008)



### Description of trend

WHO and UNICEF began requesting data on DTP1 coverage in 2001 and have received national reports reflecting DTP1 coverage from 2001 onward. The DTP1 estimates from 2000-2004 are based on these reports. For years prior to 2000 the estimates are derived from the WHO/UNICEF estimates of DTP3 and the relationship between the levels of DTP3 coverage and the drop-out between DTP1 and DTP3. This relationship results from an analysis of 282 surveys conducted in 101 countries which were published between 1980 and 2004. The 2004 data in DTP coverage is the results three months stock out.

### Data presented in chart

Year	WHO/ UNICEF estimate (%)	Reported to:*		Government official estimate (%)	Reported doses administered (%)**	Survey data (%)***	
		WHO (%)	UNICEF (%)			Survey 12-23 months	Survey <12 months
1980							
1981							
1982							
1983							
1984							
1985							
1986							
1987							
1988							
1989							
1990							
1991							
1992	93						
1993	91						
1994	91					98	
1995	97						
1996	98						
1997	98						
1998	99						
1999	98						
2000	97	97	97	97	98		
2001	98	95	95	95	98		
2002	95	95	95	95	102		
2003	99	100	100	100	102		
2004	85	85	85	85	85		
2005	99	100	100	100	100	99	98
2006	99	101	101		101		
2007	97	97	97		97		
2008	99	100	100	100			

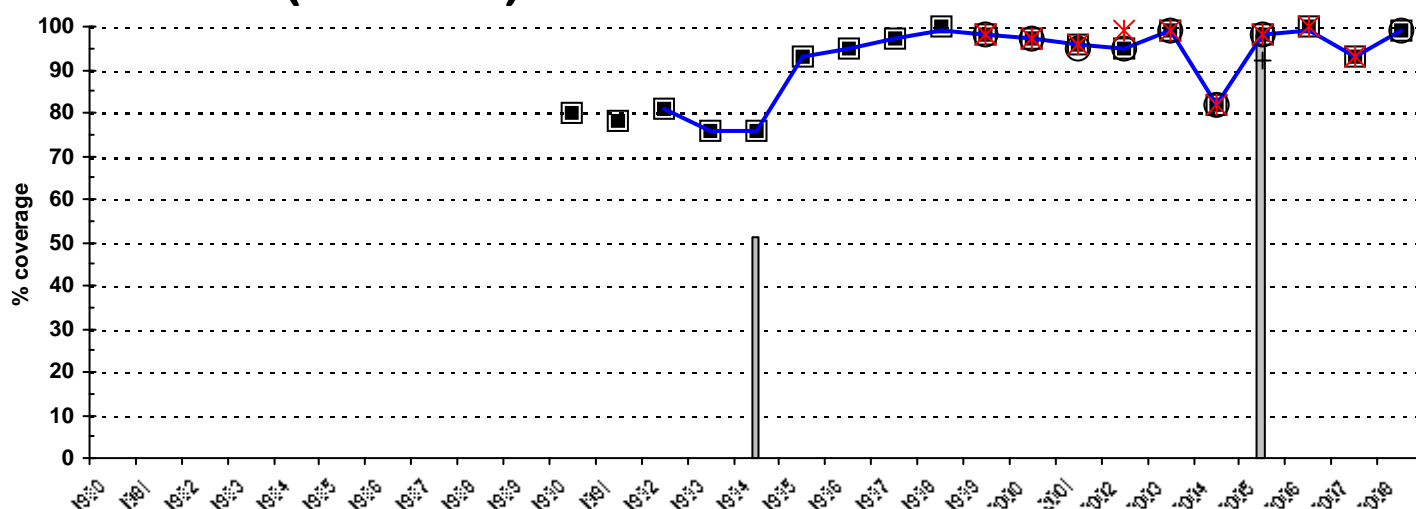
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# Kazakhstan

## DTP3 (1980-2008)



### Description of trend

Estimated immunization coverage levels are based on reported data. The 1995 DHS is not considered since data collection was based on entire mothers' recall and information from vaccination cards was not available (cards are maintained in health facility). The 1999 DHS (card only data: 91% cards seen) confirms officially reported data. The 2004 decline in DTP coverage is the result of three months stock out. Estimated immunization coverage levels are based on reported data, supported by survey results.

### Data presented in chart

Year	WHO/ UNICEF estimate (%)	Reported to:*		Government official estimate (%)	Reported doses administered (%)**	Survey data (%)***	
		WHO (%)	UNICEF (%)			Survey 12-23 months	Survey <12 months
1980							
1981							
1982							
1983							
1984							
1985							
1986							
1987							
1988							
1989							
1990		80	80				
1991		78	78				
1992	81	81	81				
1993	76	76	76				
1994	76	76	76			51	
1995	93	93	93				
1996	95	95	95				
1997	97	97	97				
1998	99	100	100				
1999	98	98	98	98	98		
2000	97	97	97	97	97		
2001	96	96	96	95	96		
2002	95	95	95	95	99		
2003	99	99	99	99	99		
2004	82	82	82	82	82		
2005	98	98	98	98	98	98	92
2006	99	100	100		100		
2007	93	93	93		93		
2008	99	99	99	99			

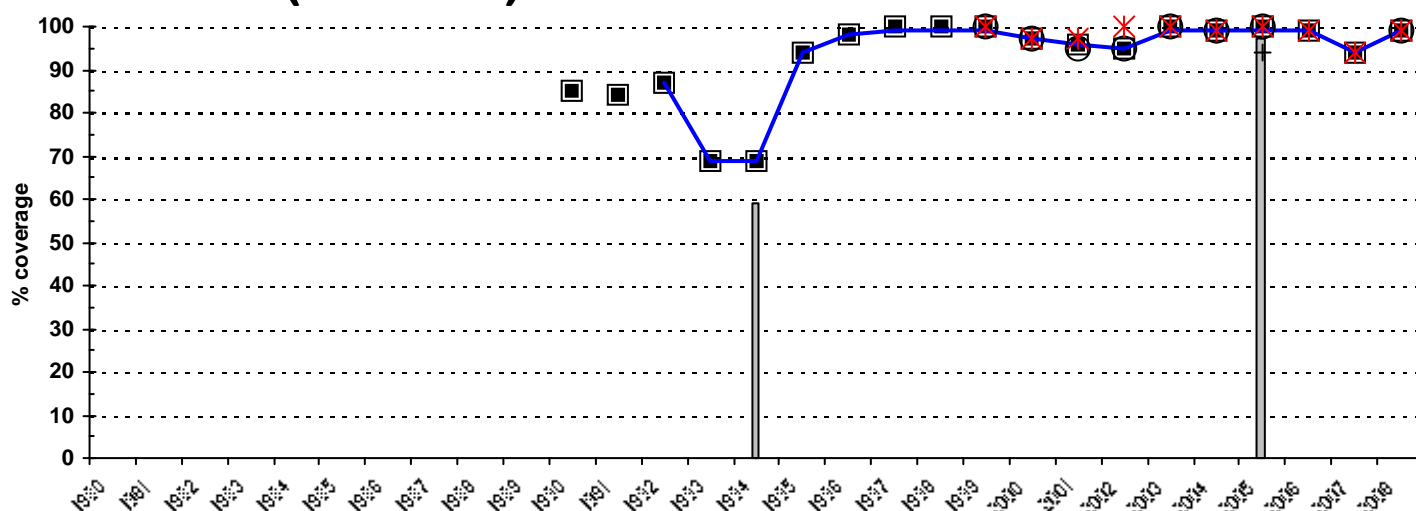
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# Kazakhstan

## Pol3 (1980-2008)



### Description of trend

Estimated immunization coverage levels are based on reported data. The 1995 DHS is not considered since data collection was based entirely on mothers' recall and information from vaccination cards was not available (cards are maintained in health facility). The 1999 DHS (card only data cards seen) confirms officially reported data. Estimated immunization coverage levels are based on reported data, supported by survey results.

### Data presented in chart

Year	WHO/ UNICEF estimate (%)	Reported to:*		Government official estimate (%)	Reported doses administered (%)**	Survey data (%)***	
		WHO (%)	UNICEF (%)			Survey 12-23 months	Survey <12 months
1980							
1981							
1982							
1983							
1984							
1985							
1986							
1987							
1988							
1989							
1990		85	85				
1991		84	84				
1992	87	87	87				
1993	69	69	69				
1994	69	69	69			59	
1995	94	94	94				
1996	98	98	98				
1997	99	100	100				
1998	99	100	100				
1999	99	100	100	100	100		
2000	97	97	97	97	97		
2001	96	96	96	95	97		
2002	95	95	95	95	100		
2003	99	100	100	100	100		
2004	99	99	99	99	99		
2005	99	100	100	100	100	97	94
2006	99	99	99		99		
2007	94	94	94		94		
2008	99	99	99	99	99		

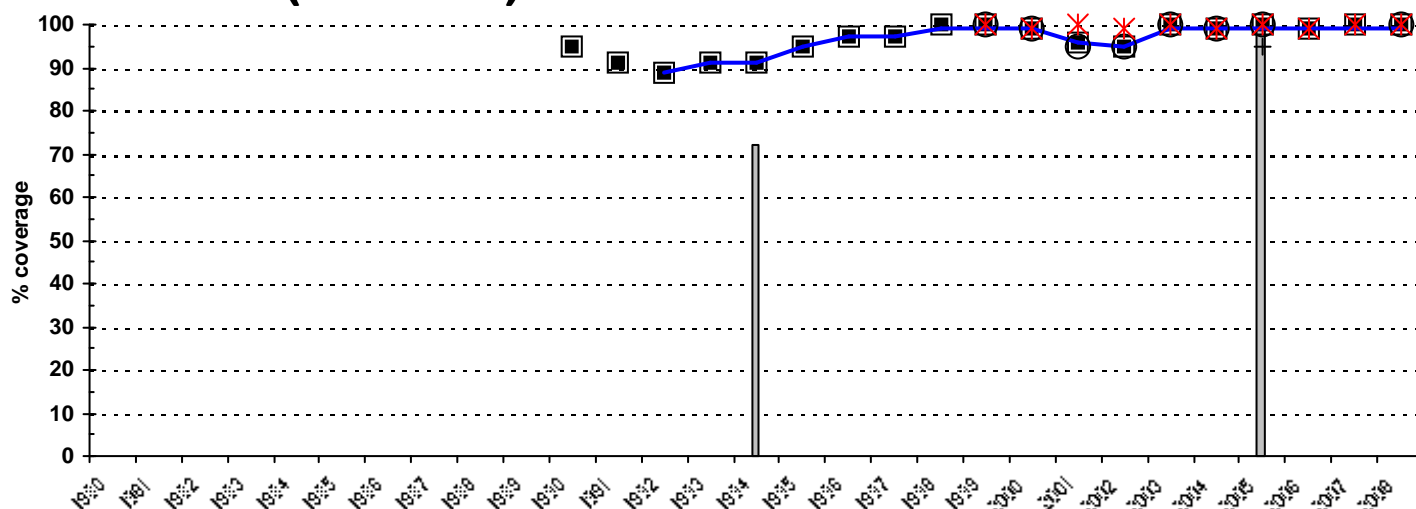
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\*\*Coverage based on registration of doses administered by health care providers.

\*\*\*In case more than one survey was implemented in a certain year the highest value is presented. Details of all data are presented in the second section of this report.

# Kazakhstan

## MCV (1980-2008)



### Description of trend

Estimated immunization coverage levels are based on reported data. The 1995 DHS is not considered since data collection was based entirely on mothers' recall and information from vaccination cards was not available (cards are maintained in health facility). The 1999 DHS (card only data, 91% cards seen) confirms officially reported data. Estimated immunization coverage levels are based on reported data, supported by survey results.

### Data presented in chart

Year	WHO/ UNICEF estimate (%)	Reported to:*		Government official estimate (%)	Reported doses administered (%)**	Survey data (%)***	
		WHO (%)	UNICEF (%)			Survey 12-23 months	Survey <12 months
1980							
1981							
1982							
1983							
1984							
1985							
1986							
1987							
1988							
1989							
1990		95	95				
1991		91	91				
1992	89	89	89				
1993	91	91	91				
1994	91	91	91			72	
1995	95	95	95				
1996	97	97	97				
1997	97	97	97				
1998	99	100	100				
1999	99	100	100	100	100		
2000	99	99	99	99	99		
2001	96	96	96	95	100		
2002	95	95	95	95	99		
2003	99	100	100	100	100		
2004	99	99	99	99	99		
2005	99	100	100	100	100	99	95
2006	99	99	99		99		
2007	99	100	100		100		
2008	99	100	100	100	100		

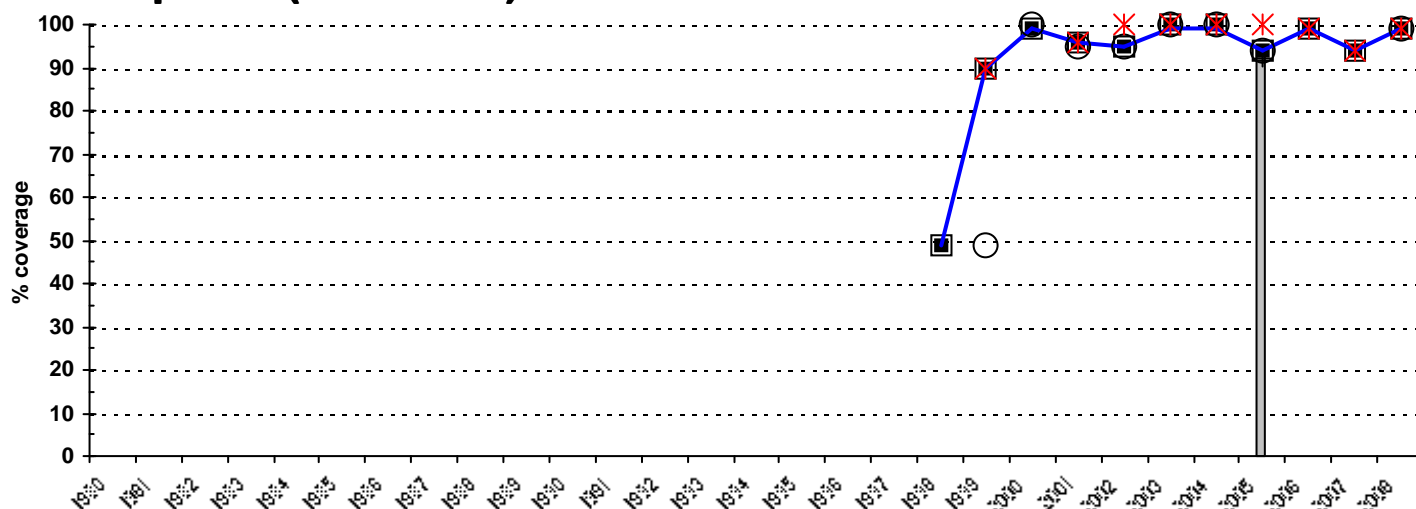
\*Prior to 1998 national reports to WHO/UNICEF did not specify whether information was derived from administrative records, surveys or other sources.

\*\*Coverage based on registration of doses administered by health care providers.

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# Kazakhstan

## HepB3 (1980-2008)



### Description of trend

The Hepatitis vaccine was introduced in 1999. Coverage is confirmed by survey.

### Data presented in chart

Year	WHO/ UNICEF estimate (%)	Reported to:*		Government official estimate (%)	Reported doses administered (%)**	Survey data (%)***	
		WHO (%)	UNICEF (%)			Survey 12-23 months	Survey <12 months
1980							
1981							
1982							
1983							
1984							
1985							
1986							
1987							
1988							
1989							
1990							
1991							
1992							
1993							
1994							
1995							
1996							
1997							
1998	49	49	49				
1999	90	90	90	49	90		
2000	99	99	99	100			
2001	96	96	96	95	96		
2002	95	95	95	95	100		
2003	99	100	100	100	100		
2004	99	100	100	100	100		
2005	94	94	94	94	100	95	92
2006	99	99	99		99		
2007	94	94	94		94		
2008	99	99	99	99	99		

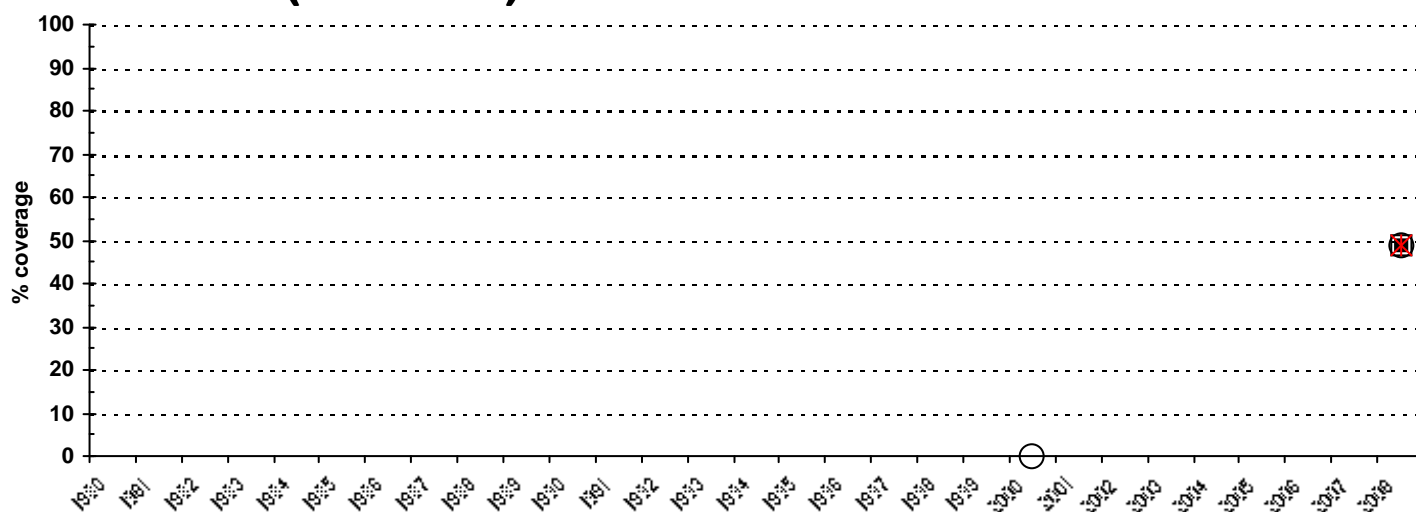
\*Prior to 1998 national reports to WHO/UNICEF did not specify whether information was derived from administrative records, surveys or other sources.

\*\*Coverage based on registration of doses administered by health care providers.

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# Kazakhstan

## Hib3 (1980-2008)



### Description of trend

Hib vaccine was introduced in July 2008. Kazakhstan uses both a pentavalent DTP-HepB-Hib vaccine and a tetravalent DTP-Hib vaccine

### Data presented in chart

Year	WHO/ UNICEF estimate (%)	Reported to:*		Government official estimate (%)	Reported doses administered (%)**	Survey data (%)***	
		WHO (%)	UNICEF (%)			Survey 12-23 months	Survey <12 months
1980							
1981							
1982							
1983							
1984							
1985							
1986							
1987							
1988							
1989							
1990							
1991							
1992							
1993							
1994							
1995							
1996							
1997							
1998							
1999							
2000				0			
2001							
2002							
2003							
2004							
2005							
2006							
2007							
2008	49	49	49	49	49		

\*Prior to 1998 national reports to WHO/UNICEF did not specify whether information was derived from administrative records, surveys or other sources.

\*\*Coverage based on registration of doses administered by health care providers.

\*\*\*In case more than one survey was implemented in a certain year the highest value is presented. Details of all data are presented in the second section of this report.

# Kazakhstan

## Details Survey Data

### Year Source

Antigen	Confirmation method	% coverage	Compliance with schedule	Age group	Sample size	% cards seen	Survey year	Comments
<b>2005 Kazakhstan Multiple Indicator Cluster Survey 2006</b>								
BCG	Card or History	99.6		15-26 m	991	95.1	2006	
BCG	C or H <12 month	97.9		15-26 m	991	95.1	2006	
DTP1	Card or History	99.4		15-26 m	991	95.1	2006	
DTP1	C or H <12 month	97.9		15-26 m	991	95.1	2006	
DTP3	Card or History	98		15-26 m	991	95.1	2006	
DTP3	C or H <12 month	91.7		15-26 m	991	95.1	2006	
Pol3	Card or History	96.7		15-26 m	991	95.1	2006	
Pol3	C or H <12 month	93.9		15-26 m	991	95.1	2006	
MCV	Card or History	99.4		15-26 m	991	95.1	2006	
MCV	C or H <12 month	94.7		15-26 m	991	95.1	2006	
HepB	Card or History	95.1		15-26 m	991	95.1	2006	
HepB	C or H <12 month	92.3		15-26 m	991	95.1	2006	

### 1994 Kazakstan Demographic and Health Survey 1995, 1996

BCG	Card or History	97.2		12-23 m	280	8.1	1995	
DTP1	Card or History	97.9		12-23 m	280	8.1	1995	
DTP3	Card or History	51.2		12-23 m	280	8.1	1995	
Pol3	Card or History	58.7		12-23 m	280	8.1	1995	
MCV	Card or History	71.9		12-23 m	280	8.1	1995	

