

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

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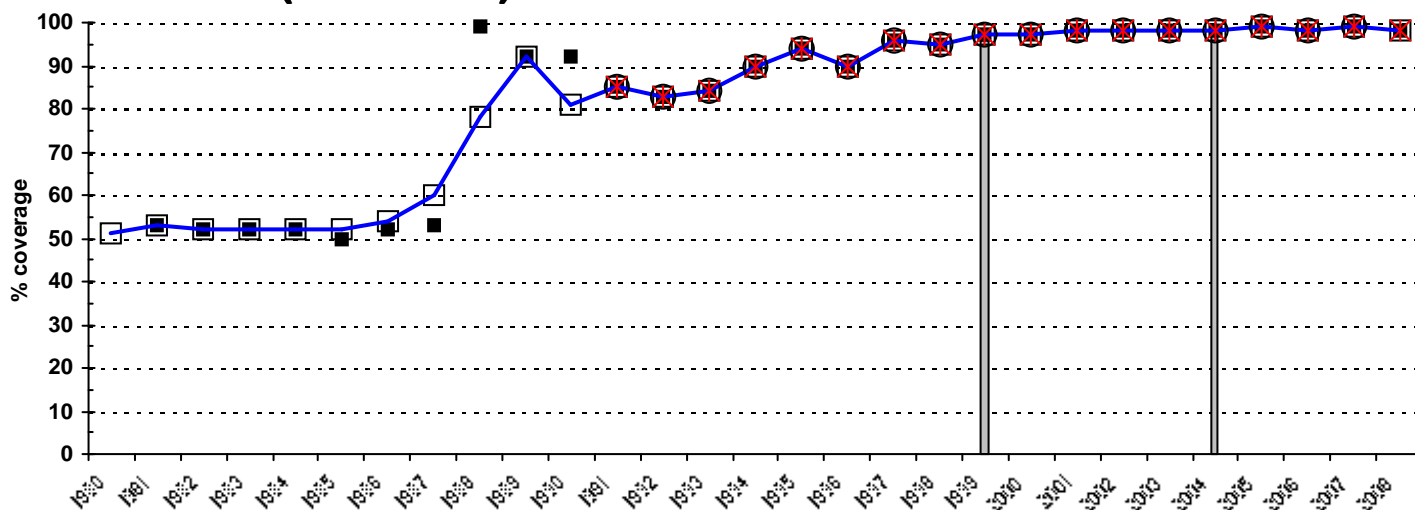
***Mongolia***

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**July, 2009**

# Mongolia

## BCG (1980-2008)



### Description of trend

Estimated immunization coverage levels are based on reported data. Survey confirms very high coverage levels.

### 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	51	51					
1981	53	53	53				
1982	52	52	52				
1983	52	52	52				
1984	52	52	52				
1985	52	52	50				
1986	54	54	52				
1987	60	60	53				
1988	78	78	99				
1989	92	92	92				
1990	81	81	92				
1991	85	85	85	85	85		
1992	83	83	83	83	83		
1993	84	84	84	84	84		
1994	90	90	90	90	90		
1995	94	94	94	94	94		
1996	90	90	90	90	90		
1997	96	96	96	96	96		
1998	95	95	95	95	95		
1999	97	97	97	97	97	96	
2000	97	97	97	97	97		
2001	98	98	98	98	98		
2002	98	98	98	98	98		
2003	98	98	98	98	98		
2004	98	98	98	98	98	98	98
2005	99	99	99	99	99		
2006	98	98	98	98	98		
2007	99	99	99	99	99		
2008	98	98	98		98		

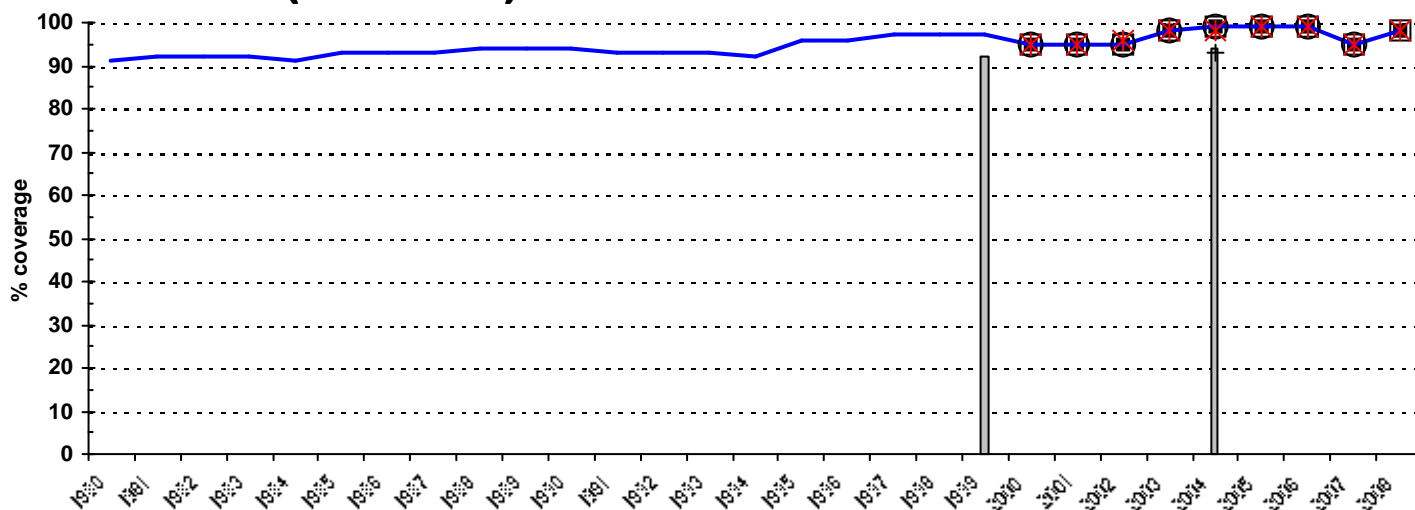
\*Prior to 1998 national reports to WHO/UNICEF did not specify whether information was derived from administrative records, surveys or other sources.

\*\*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.

# Mongolia

## 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 onward 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. DTP-HepB-H combination vaccine introduced in 2005.

### 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	91						
1981	92						
1982	92						
1983	92						
1984	91						
1985	93						
1986	93						
1987	93						
1988	94						
1989	94						
1990	94						
1991	93						
1992	93						
1993	93						
1994	92						
1995	96						
1996	96						
1997	97						
1998	97						
1999	97					92	
2000	95	95	95	95	95		
2001	95	95	95	95	95		
2002	95	95	95	95	96		
2003	98	98	98	98	98		
2004	99	99	99	99	98	94	93
2005	99	99	99	99	99		
2006	99	99	99	99	99		
2007	95	95	95	95	95		
2008	98	98	98	98	98		

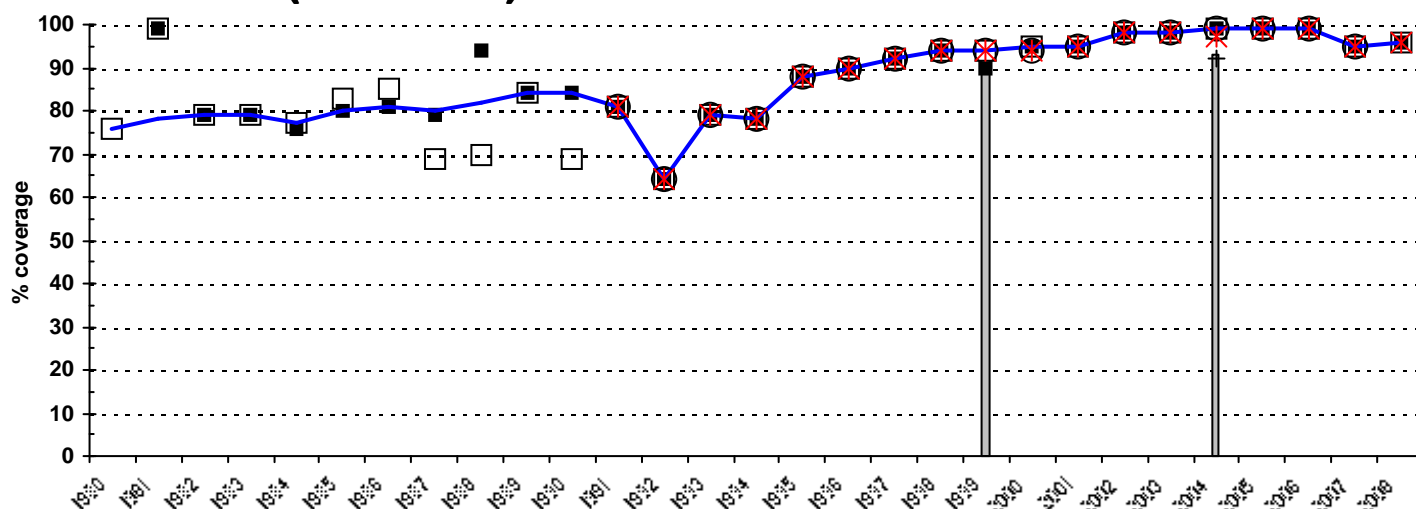
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# Mongolia

## DTP3 (1980-2008)



### Description of trend

Estimated immunization coverage levels are based on reported data. Surveys confirm very high coverage levels. DTP-HepB-Hib combination vaccine introduced in 2005. Differences between the 2006 MICS results and the coverage levels reported by the government may be the result of Mongolia's use of vaccine and dose specific denominators.

### 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	76	76					
1981	78	99	99				
1982	79	79	79				
1983	79	79	79				
1984	77	77	76				
1985	80	83	80				
1986	81	85	81				
1987	80	69	79				
1988	82	70	94				
1989	84	84	84				
1990	84	69	84				
1991	81	81	81	81	81		
1992	64	64	64	64	64		
1993	79	79	79	79	79		
1994	78	78	78	78	78		
1995	88	88	88	88	88		
1996	90	90	90	90	90		
1997	92	92	92	92	92		
1998	94	94	94	94	94		
1999	94	94	90	94	94	89	
2000	95	95	95	94	94		
2001	95	95	95	95	95		
2002	98	98	98	98	98		
2003	98	98	98	98	98		
2004	99	99	99	99	97	93	
2005	99	99	99	99	99	93	92
2006	99	99	99	99	99		
2007	95	95	95	95	95		
2008	96	96	96		96		

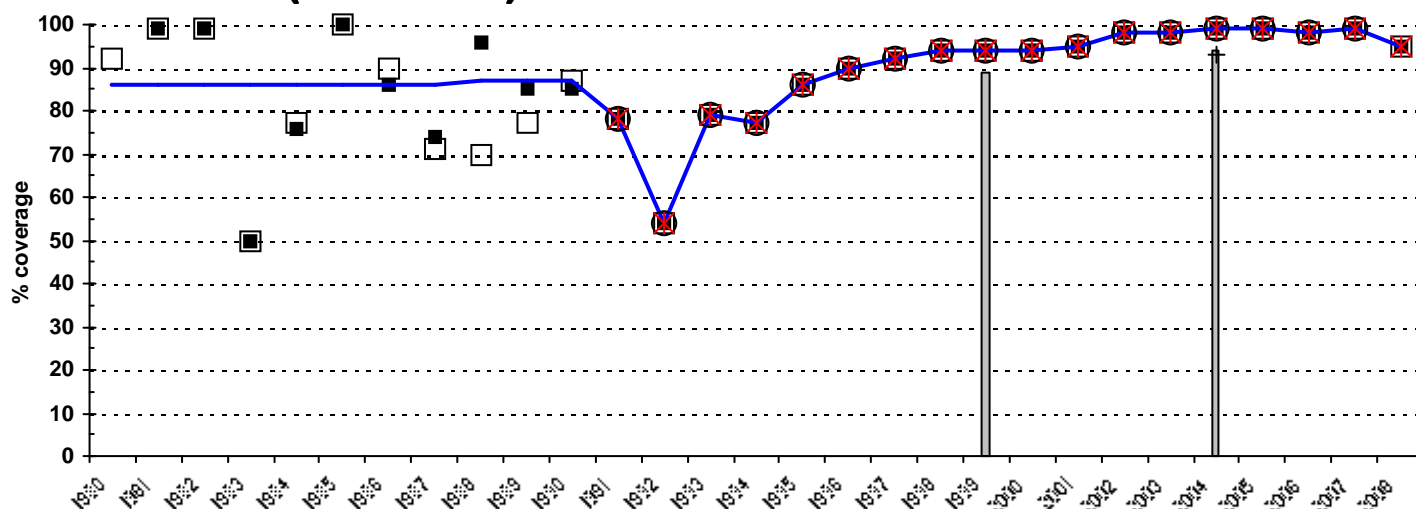
\*Prior to 1998 national reports to WHO/UNICEF did not specify whether information was derived from administrative records, surveys or other sources.

\*\*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.

# Mongolia

## Pol3 (1980-2008)



### Description of trend

Estimated immunization coverage levels are based on reported data. The MICS 2000 confirms very high coverage levels. Differences between 2006 MICS results and the coverage levels reported by the government may be the result of Mongolia's use of vaccine and dose specific denominators.

### 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	86	92	99				
1981	86	99	99				
1982	86	99	99				
1983	86	50	50				
1984	86	77	76				
1985	86	100	100				
1986	86	90	86				
1987	86	71	74				
1988	87	70	96				
1989	87	77	85				
1990	87	87	85				
1991	78	78	78	78	78		
1992	54	54	54	54	54		
1993	79	79	79	79	79		
1994	77	77	77	77	77		
1995	86	86	86	86	86		
1996	90	90	90	90	90		
1997	92	92	92	92	92		
1998	94	94	94	94	94		
1999	94	94	94	94	94	89	
2000	94	94	94	94	94		
2001	95	95	95	95	95		
2002	98	98	98	98	98		
2003	98	98	98	98	98		
2004	99	99	99	99	99	94	
2005	99	99	99	99	99		93
2006	98	98	98	98	98		
2007	99	99	99	99	99		
2008	95	95	95	95	95		

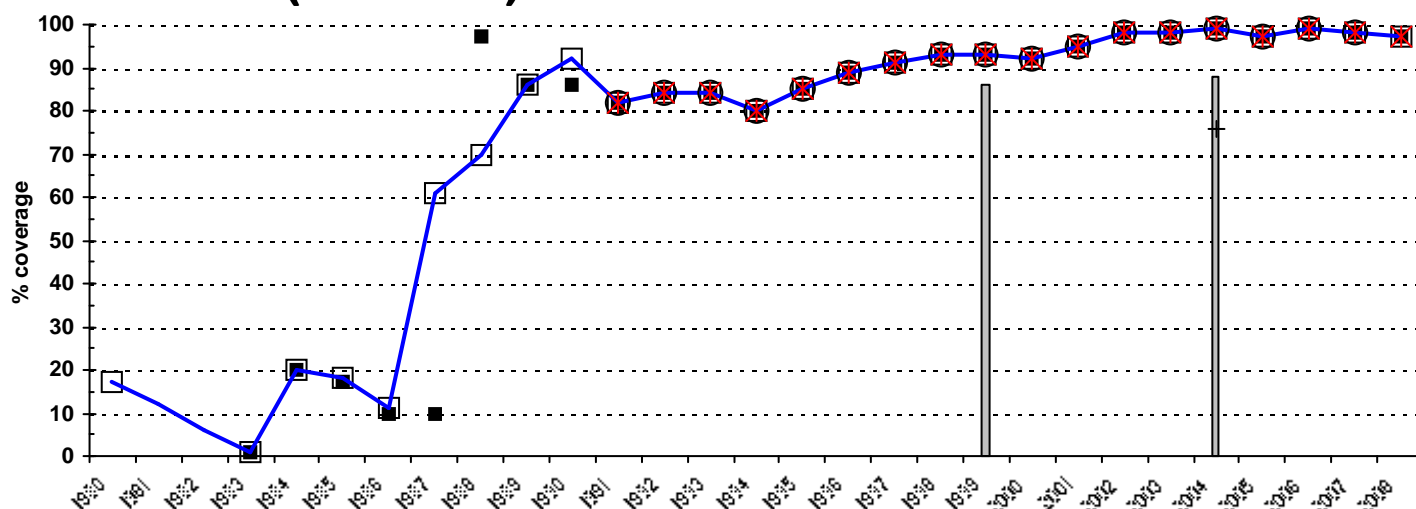
\*Prior to 1998 national reports to WHO/UNICEF did not specify whether information was derived from administrative records, surveys or other sources.

\*\*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.

# Mongolia

## MCV (1980-2008)



### Description of trend

Estimated immunization coverage levels are based on reported data. Surveys confirm very high coverage levels. Differences between the 2007 MICS results and the coverage levels reported by the government may be the result of Mongolia's use of vaccine and dose specific denominators.

### 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	17	17					
1981	12						
1982	6						
1983	1	1	1				
1984	20	20	20				
1985	18	18	17				
1986	11	11	10				
1987	61	61	10				
1988	70	70	97				
1989	86	86	86				
1990	92	92	86				
1991	82	82	82	82	82		
1992	84	84	84	84	84		
1993	84	84	84	84	84		
1994	80	80	80	80	80		
1995	85	85	85	85	85		
1996	89	89	89	89	89		
1997	91	91	91	91	91		
1998	93	93	93	93	93		
1999	93	93	93	93	93	86	
2000	92	92	92	92	92		
2001	95	95	95	95	95		
2002	98	98	98	98	98		
2003	98	98	98	98	98		
2004	99	99	99	99	99	88	76
2005	97	97	97	97	97		
2006	99	99	99	99	99		
2007	98	98	98	98	98		
2008	97	97	97		97		

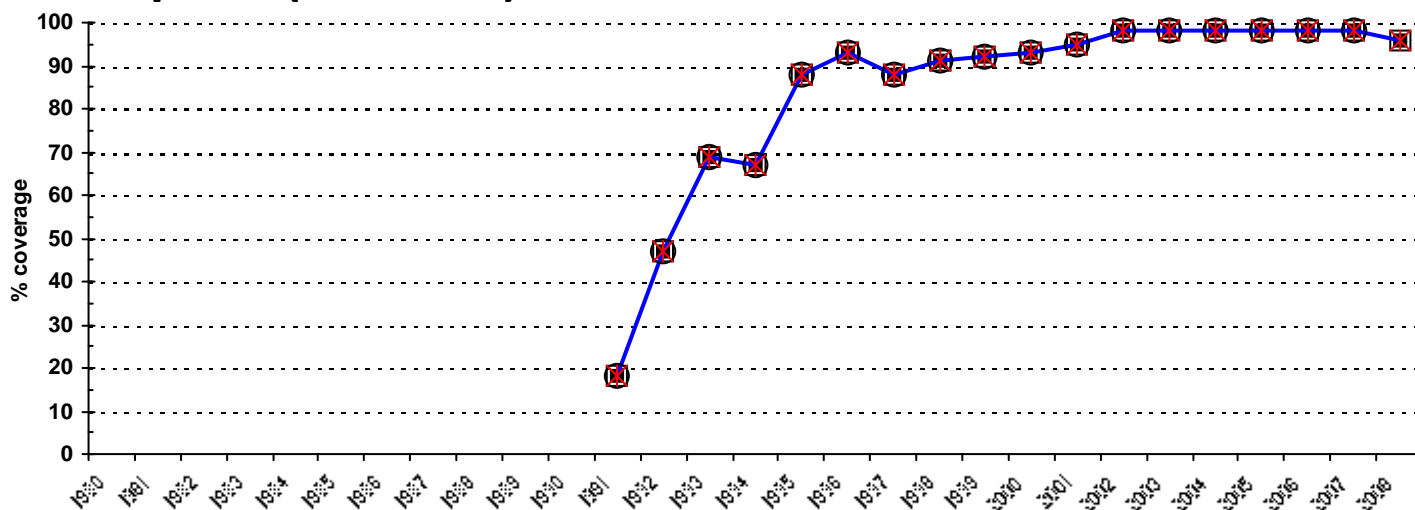
\*Prior to 1998 national reports to WHO/UNICEF did not specify whether information was derived from administrative records, surveys or other sources.

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# Mongolia

## HepB3 (1980-2008)



### Description of trend

The hepatitis B vaccine was introduced in 1991. Estimated immunization coverage levels are based on reported data. DTP-HepB-Hib combination vaccine introduced in 2005.

### 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	18	18	18	18	18		
1992	47	47	47	47	47		
1993	69	69	69	69	69		
1994	67	67	67	67	67		
1995	88	88	88	88	88		
1996	93	93	93	93	93		
1997	88	88	88	88	88		
1998	91	91	91	91	91		
1999	92	92	92	92	92		
2000	93	93	93	93	93		
2001	95	95	95	95	95		
2002	98	98	98	98	98		
2003	98	98	98	98	98		
2004	98	98	98	98	98		
2005	98	98	98	98	98		
2006	98	98	98	98	98		
2007	98	98	98	98	98		
2008	96	96	96	96	96		

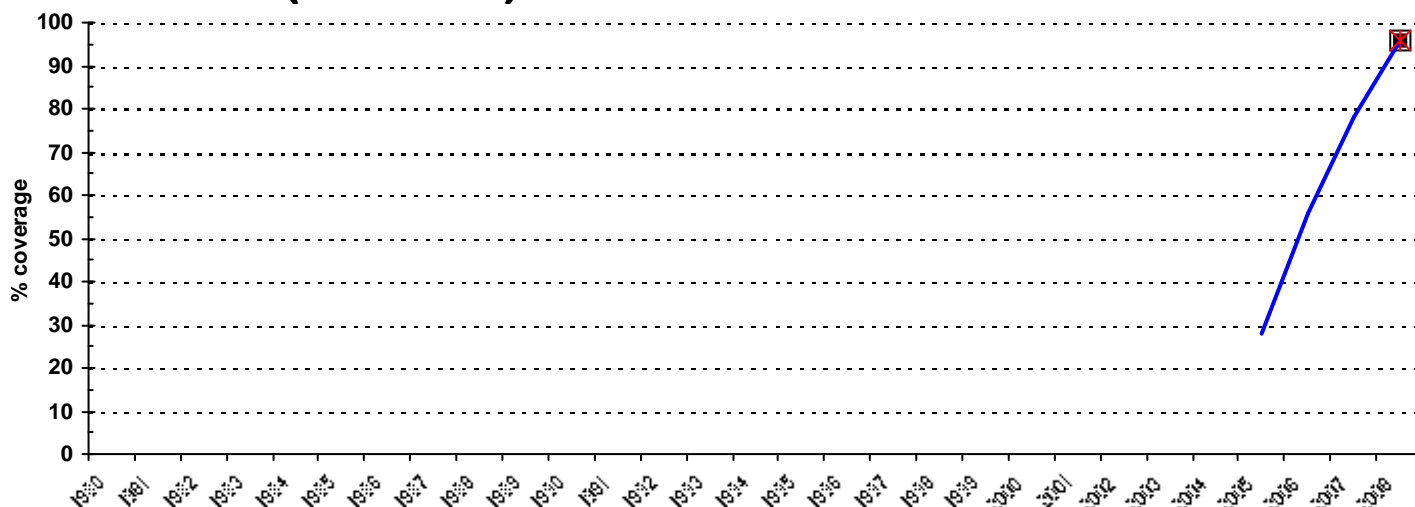
\*Prior to 1998 national reports to WHO/UNICEF did not specify whether information was derived from administrative records, surveys or other sources.

\*\*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.

# Mongolia

## Hib3 (1980-2008)



### Description of trend

DTP-HepB-Hib combination vaccine introduced in 2005 in 28% of the country where 99% coverage was achieved. In 2006, 98% coverage was achieved in more than 50% of the country. In 2007, 99% coverage was achieved in 78% of the country. Estimates are based on government official report adjusted for the national target population. 2008 coverage is national.

### 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							
2001							
2002							
2003							
2004							
2005	28						
2006	56						
2007	78						
2008	96	96	96		96		

\*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.

# Mongolia

## Details Survey Data

### Year Source

Antigen	Confirmation method	% coverage	Compliance with schedule	Age group	Sample size	% cards seen	Survey year	Comments
<b>2004 Mongolia "Child and Development 2005" Survey (MICS-3)</b>								
BCG	Card or History	97.6		12-23 m	724	80.5	2005	
BCG	C or H <12 month	97.6		12-23 m	724	80.5	2005	
DTP1	Card or History	93.6		12-23 m	724	80.5	2005	
DTP1	C or H <12 month	92.6		12-23 m	724	80.5	2005	
DTP3	Card or History	93.2		12-23 m	724	80.5	2005	
DTP3	C or H <12 month	92		12-23 m	724	80.5	2005	
Pol3	Card or History	94.2		12-23 m	724	80.5	2005	
Pol3	C or H <12 month	93		12-23 m	724	80.5	2005	
MCV	Card or History	88.2		12-23 m	724	80.5	2005	
MCV	C or H <12 month	76.1		12-23 m	724	80.5	2005	

### 1999 Mongolia, Child and Development survey-2000 (MICS-2), 2001

BCG	Card or History	95.6		12-23 m	1255	90	2000	
DTP1	Card or History	91.9		12-23 m	1255	90	2000	
DTP3	Card or History	89.2		12-23 m	1255	90	2000	
Pol3	Card or History	88.8		12-23 m	1255	90	2000	
MCV	Card or History	85.7		12-23 m	1255	90	2000	

