

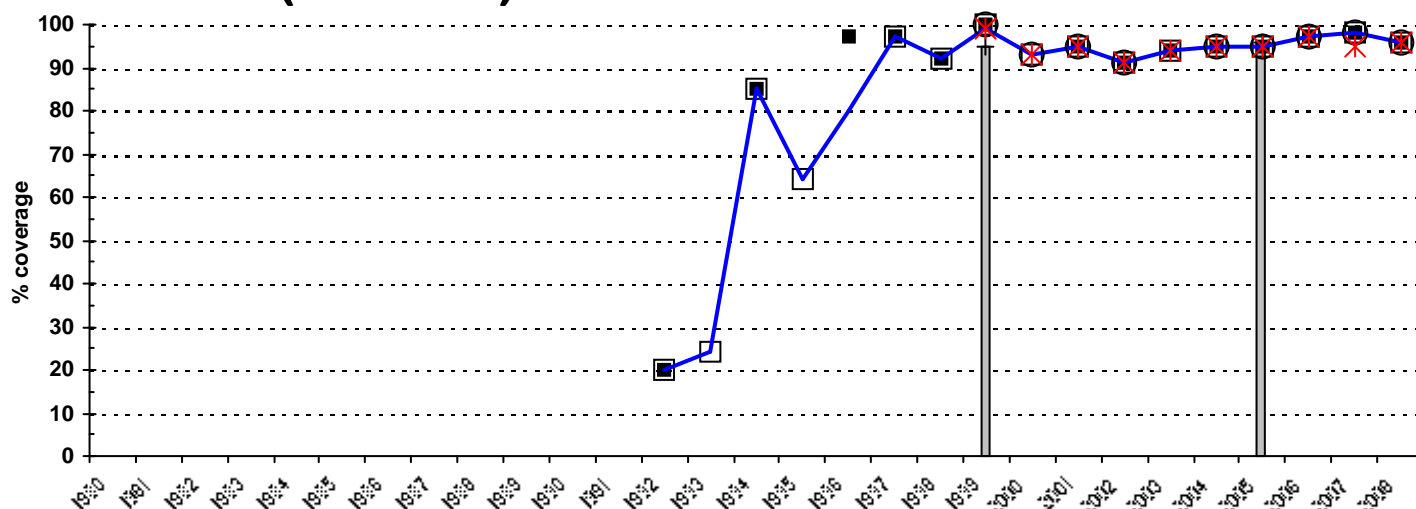
**WHO/UNICEF
Review of National Immunization Coverage
1980-2008**

Bosnia and Herzegovina

July, 2009

Bosnia and Herzegovina

BCG (1980-2008)



Description of trend

Estimated immunization coverage levels are based on reported data, confirmed by survey. For missing data between years the imputed coverage is the linear interpolation between the two reported coverage rates. If coverage has ceased to be reported, it is assumed to remain constant.

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	20	20	20				
1993	24	24					
1994	85	85	85				
1995	64	64					
1996	80		97				
1997	97	97	97				
1998	92	92	92				
1999	99	100	100	100	99	95	95
2000	93	93		93	93		
2001	95	95	95	95	95		
2002	91	91	91	91	91		
2003	94	94	94		94		
2004	95	95	95	95	95		
2005	95	95	95	95	95	96	96
2006	97	97	97	97	97		
2007	98	98	98	98	95		
2008	96	96	96	96	96		

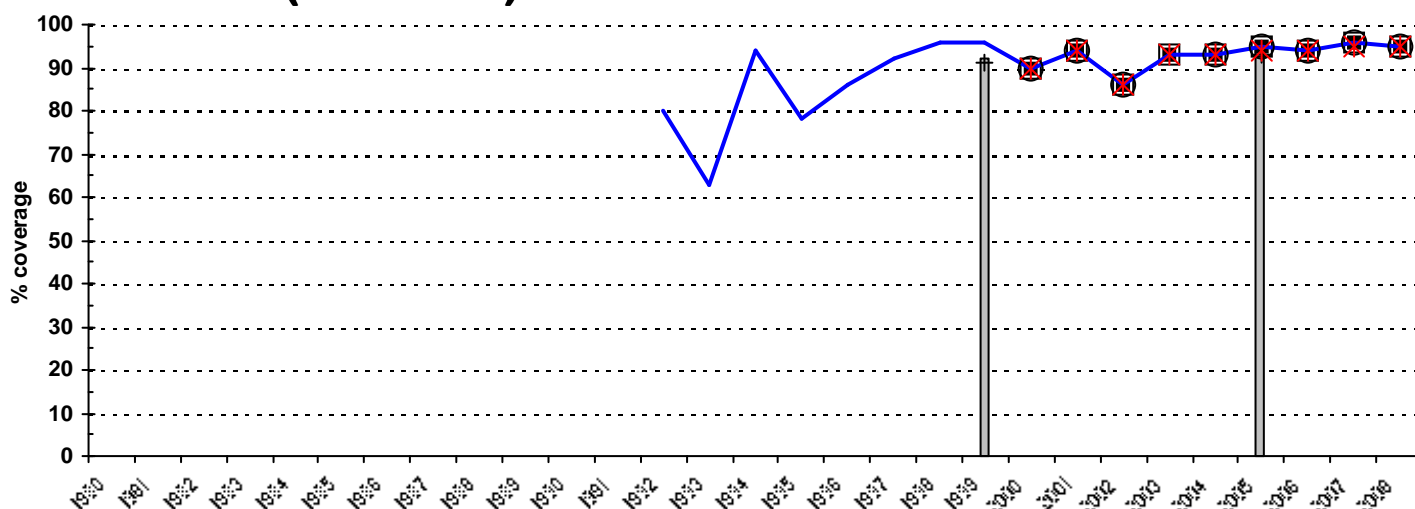
*Prior to 1998 national reports to WHO/UNICEF did not specify whether information was derived from administrative records, surveys or other sources.

**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.

Bosnia and Herzegovina

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. The MICS 2000 survey confirms 1999 officially reported data.

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	80						
1993	63						
1994	94						
1995	78						
1996	86						
1997	92						
1998	96						
1999	96					92	91
2000	90	90	90	90	90		
2001	94	94	94	94	94		
2002	86	86	86	86	86		
2003	93	93	93	93	93		
2004	93	93	93	93	93		
2005	95	95	95	95	94	94	93
2006	94	94	94	94	94		
2007	96	96	96	96	95		
2008	95	95	95	95	95		

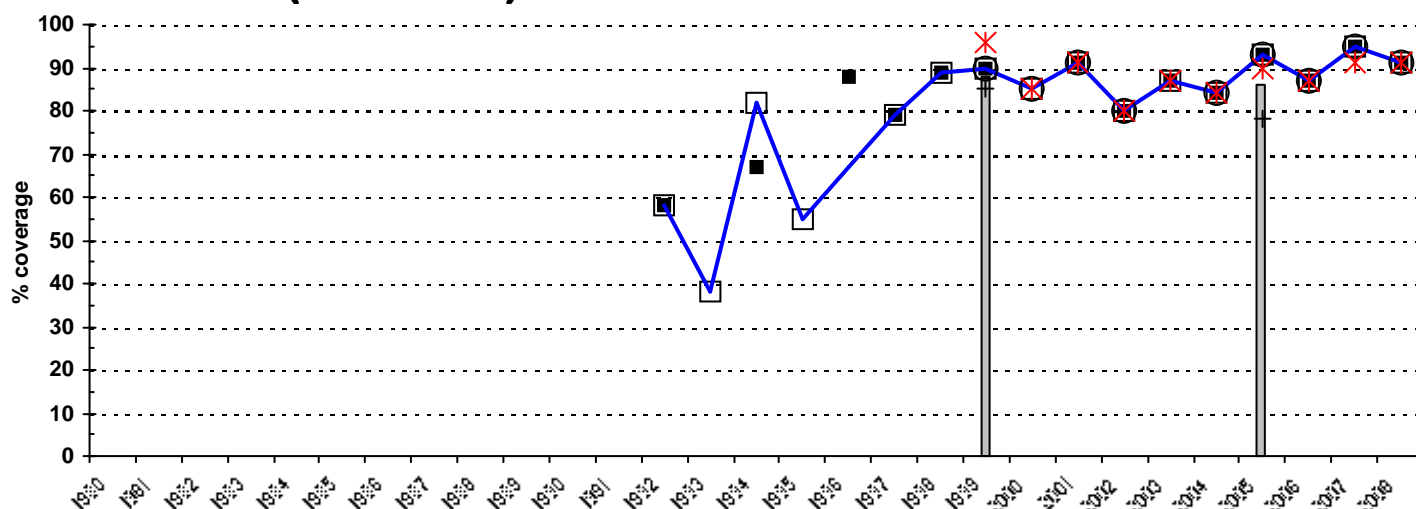
*Prior to 1998 national reports to WHO/UNICEF did not specify whether information was derived from administrative records, surveys or other sources.

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Bosnia and Herzegovina

DTP3 (1980-2008)



Description of trend

Estimated immunization coverage levels are based on reported data, supported by survey. For missing data between two years the imputed coverage is the linear interpolation between the two reported coverage rates. If coverage has ceased to be reported, it is assumed to remain constant.

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	58	58	58				
1993	38	38					
1994	82	82	67				
1995	55	55					
1996	67		88				
1997	79	79	79				
1998	89	89	89				
1999	90	90	90	90	96	88	85
2000	85	85		85	85		
2001	91	91	91	91	91		
2002	80	80	80	80	80		
2003	87	87	87		87		
2004	84	84	84	84	84		
2005	93	93	93	93	90	86	78
2006	87	87	87	87	87		
2007	95	95	95	95	91		
2008	91	91	91	91	91		

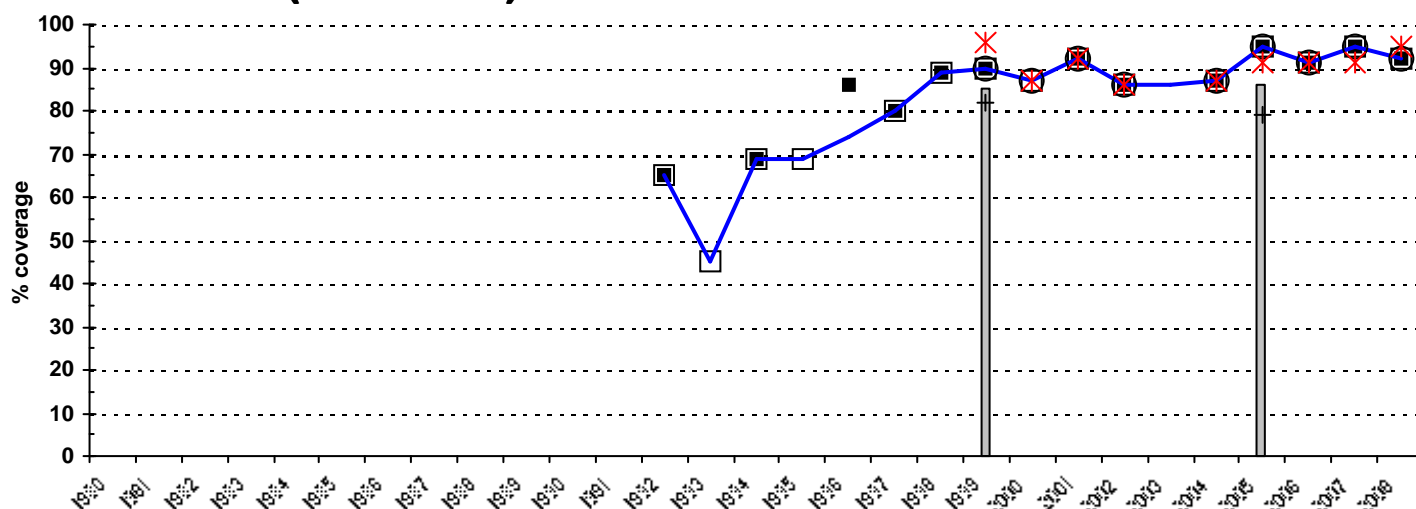
*Prior to 1998 national reports to WHO/UNICEF did not specify whether information was derived from administrative records, surveys or other sources.

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Bosnia and Herzegovina

Pol3 (1980-2008)



Description of trend

Estimated immunization coverage levels are based on reported data, confirmed by survey. For missing data between years the imputed cover the linear interpolation between the two reported coverage rates. If coverage has ceased to be reported, it is assumed to remain constant.

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	65	65	65				
1993	45	45					
1994	69	69	69				
1995	69	69					
1996	74		86				
1997	80	80	80				
1998	89	89	89				
1999	90	90	90	90	96	85	82
2000	87	87		87	87		
2001	92	92	92	92	92		
2002	86	86	86	86	86		
2003	86						
2004	87	87	87	87	87		
2005	95	95	95	95	91	86	79
2006	91	91	91	91	91		
2007	95	95	95	95	91		
2008	92	92	92	92	95		

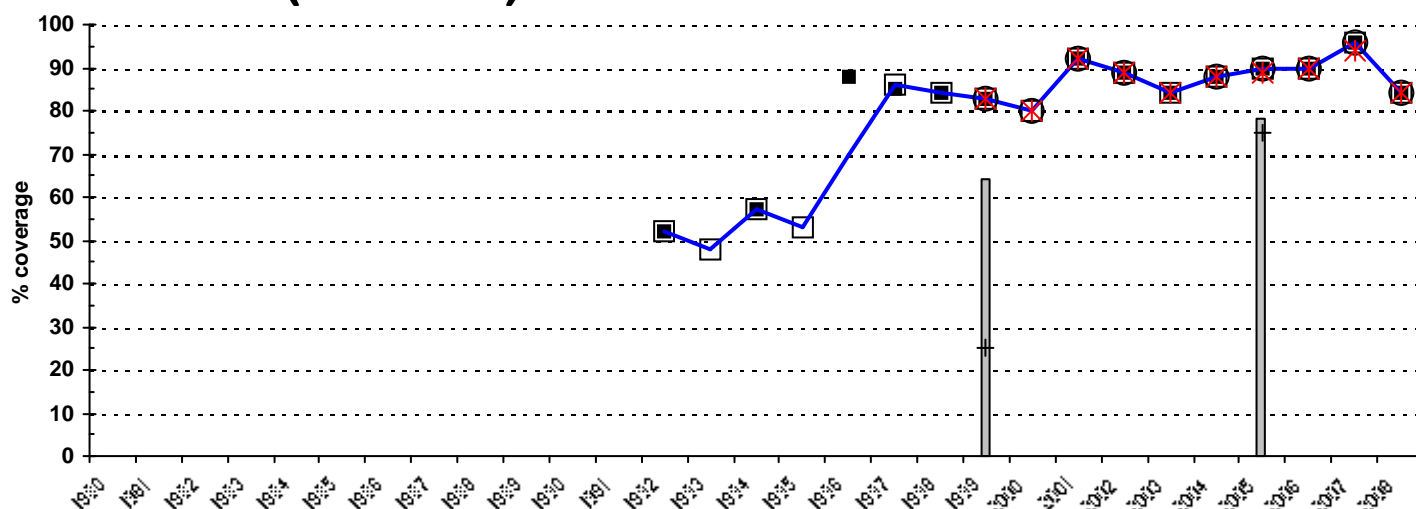
*Prior to 1998 national reports to WHO/UNICEF did not specify whether information was derived from administrative records, surveys or other sources.

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

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Bosnia and Herzegovina

MCV (1980-2008)



Description of trend

Estimated immunization coverage levels are based on reported data. For missing data between years the imputed coverage is the linear interpolation between the two reported coverage rates. If coverage has ceased to be reported, it is assumed to remain constant. Measles vaccination is recommended for children at two years of age, the 2000 MICS survey reports on children vaccinated by 18 months of age.

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	52	52	52				
1993	48	48					
1994	57	57	57				
1995	53	53					
1996	70		88				
1997	86	86	85				
1998	84	84	84				
1999	83	83	83	83	83	64	25
2000	80	80		80	80		
2001	92	92	92				
2002	89	89	89	89	89		
2003	84	84	84		84		
2004	88	88	88	88	88		
2005	90	90	90	90	89	78	75
2006	90	90	90	90	90		
2007	96	96	96	96	94		
2008	84	84	84	84	84		

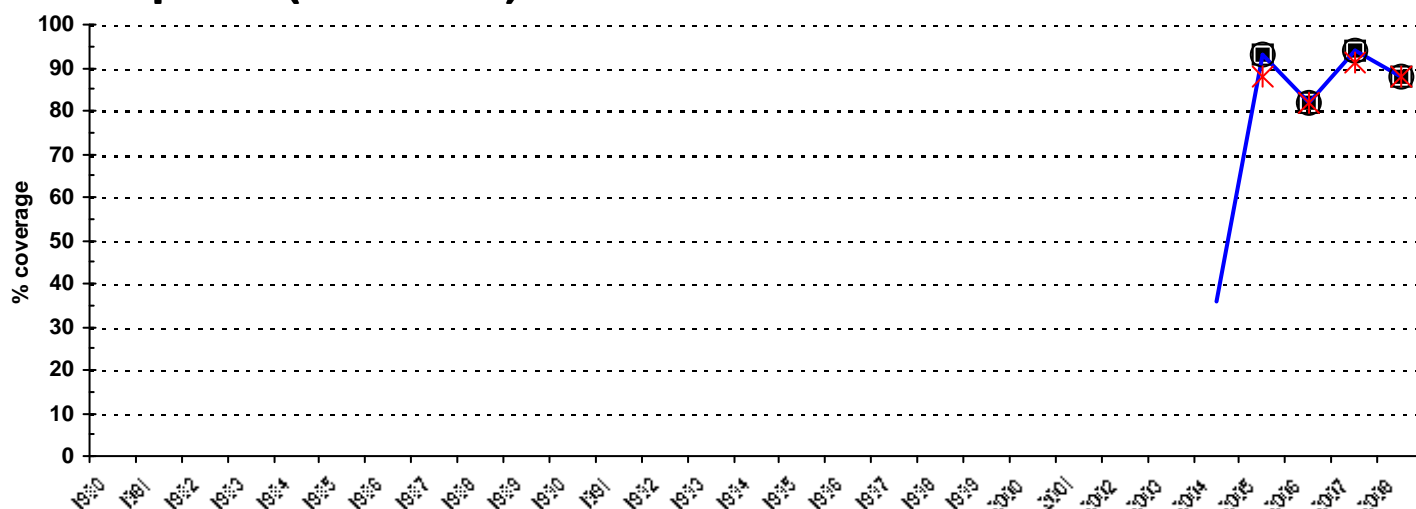
*Prior to 1998 national reports to WHO/UNICEF did not specify whether information was derived from administrative records, surveys or other sources.

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Bosnia and Herzegovina

HepB3 (1980-2008)



Description of trend

In 1999 Bosnia Federation introduced Hepatitis B immunization for children age 7. Routine infant immunization for Hepatitis B was introduced 2001 in Republica Srpska. The 2004 national report of 81% was based on a target population of approximately 45% of the country. WHO & UNICEF estimate for 2004 is based on surviving infants for entire country.

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	36						
2005	93	93	93	93	88		
2006	82	82	82	82	82		
2007	94	94	94	94	91		
2008	88	88	88	88	88		

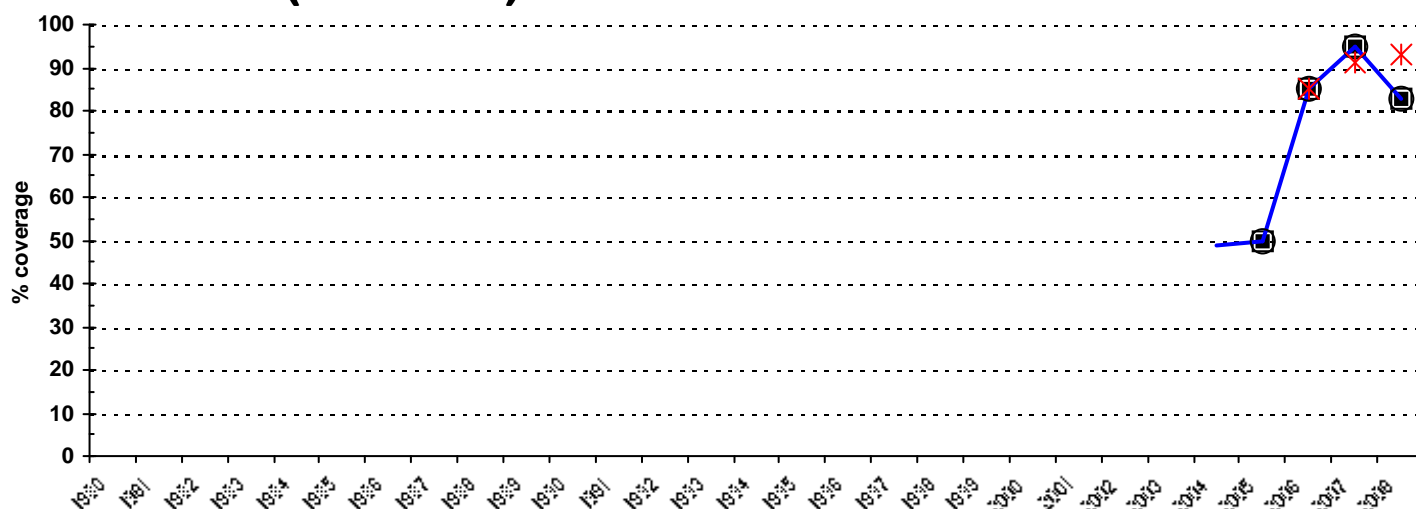
*Prior to 1998 national reports to WHO/UNICEF did not specify whether information was derived from administrative records, surveys or other sources.

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

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Bosnia and Herzegovina

Hib3 (1980-2008)



Description of trend

Hib vaccine was introduced in 2003 in part of the country. 2004 national report of 79% based on a target population of approximately 67% of country. WHO & UNICEF estimate for 2004 is based on surviving infants for entire country.

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	49						
2005	50	50	50	50			
2006	85	85	85	85	85		
2007	95	95	95	95	91		
2008	83	83	83	83	93		

*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.

Bosnia and Herzegovina

Details Survey Data

Year Source

Antigen	Confirmation method	% coverage	Compliance with schedule	Age group	Sample size	% cards seen	Survey year	Comments
2005 Bosnia and Herzegovina Multiple Indicator Cluster Survey 2006								
BCG	Card or History	96.5		18-29 m	636	76.7	2006	
BCG	C or H <12 month	95.8		18-29 m	636	76.7	2006	
DTP1	Card or History	94		18-29 m	636	76.7	2006	
DTP1	C or H <12 month	93.4		18-29 m	636	76.7	2006	
DTP3	Card or History	86.2		18-29 m	636	76.7	2006	
DTP3	C or H <12 month	78		18-29 m	636	76.7	2006	
Pol3	Card or History	86.4		18-29 m	636	76.7	2006	
Pol3	C or H <12 month	79		18-29 m	636	76.7	2006	
MCV	Card or History	78		18-29 m	636	76.7	2006	
MCV	C or H <12 month	75		18-29 m	636	76.7	2006	

1999 Household Survey of Women and Children, Bosnia and Herzegovina 2000 (MICS), 2001, Draft

BCG	Card or History	95.2		12-23 m	480	79.2	2000	
BCG	C or H <12 month	95.2		12-23 m	480	79.2	2000	
DTP1	Card or History	92.5		12-23 m	480	79.2	2000	
DTP1	C or H <12 month	91.3		12-23 m	480	79.2	2000	
DTP3	Card or History	87.7		12-23 m	480	79.2	2000	
DTP3	C or H <12 month	84.8		12-23 m	480	79.2	2000	
Pol3	Card or History	85.2		12-23 m	480	79.2	2000	
Pol3	C or H <12 month	82.1		12-23 m			2000	
MCV	Card or History	64.4		12-23 m	480	79.2	2000	
MCV	C or H <12 month	24.6		12-23 m	480	79.2	2000	

