

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

---

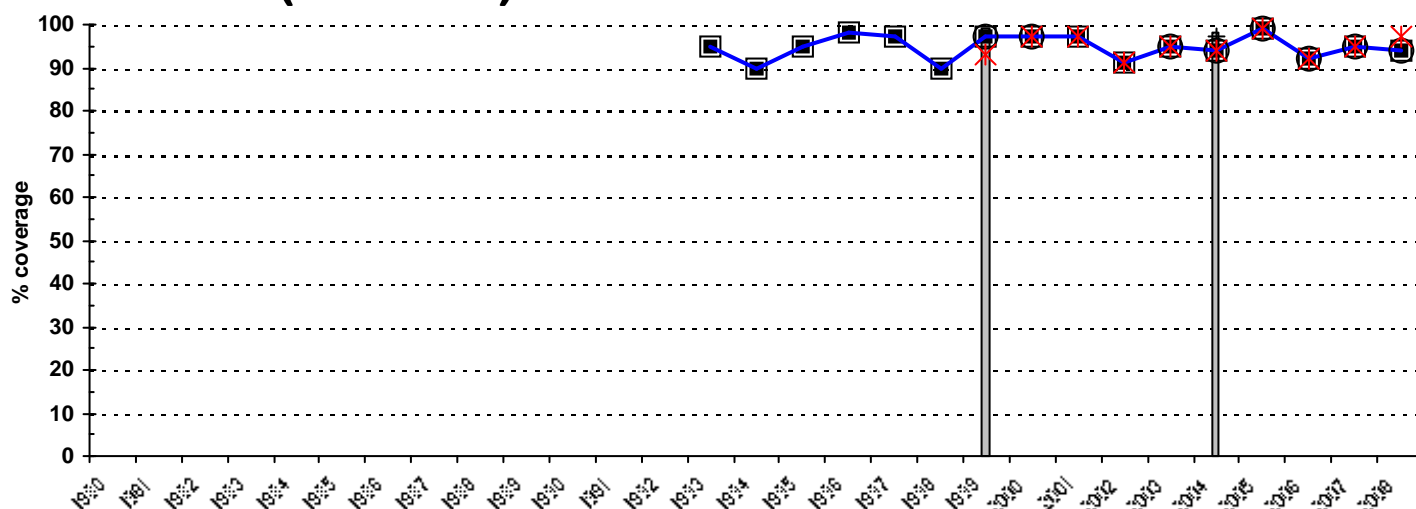
***The former Yugoslav Republic of  
Macedonia***

---

**July, 2009**

# The former Yugoslav Republic of Macedonia

## BCG (1980-2008)



### Description of trend

Estimated immunization coverage levels are based on reported data supported 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	95	95	95				
1994	90	90	90				
1995	95	95	95				
1996	98	98	98				
1997	97	97	97				
1998	90	90	90				
1999	97	97	97	97	93	99	
2000	97	97	97	97	97		
2001	97	97	97		97		
2002	91	91	91		91		
2003	95	95	95	95	95		
2004	94	94	94	94	94	98	97
2005	99	99	99	99	99		
2006	92	92	92	92	92		
2007	95	95	95	95	95		
2008	94	94	94	94	97		

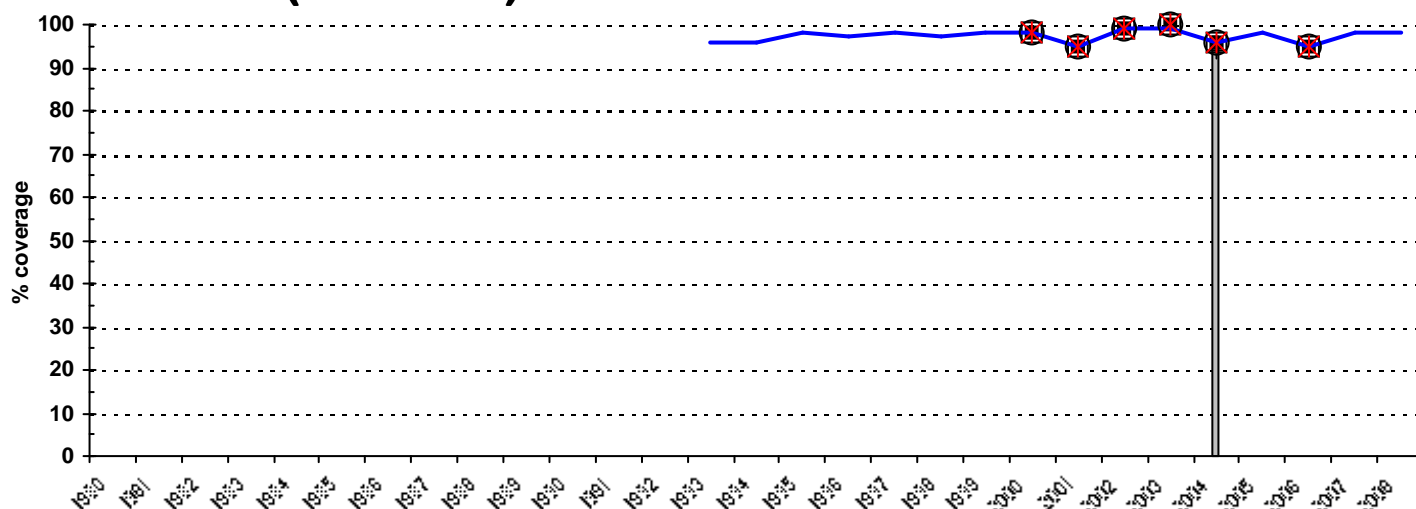
\*Prior to 1998 national reports to WHO/UNICEF did not specify whether information was derived from administrative records, surveys or other sources.

\*\*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.

# The former Yugoslav Republic of Macedonia

## DTP1 (1980-2008)



### Description of trend

WHO and UNICEF began requesting data on DTP1 coverage in 200 and have received national reports reflecting DTP1 coverage from 2000 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.

### 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	96						
1994	96						
1995	98						
1996	97						
1997	98						
1998	97						
1999	98						
2000	98	98	98	98	98		
2001	95	95	95	95	95		
2002	99	99	99	99	99		
2003	99	100	100	100	100		
2004	96	96	96	96	96	97	94
2005	98						
2006	95	95	95	95	95		
2007	98						
2008	98						

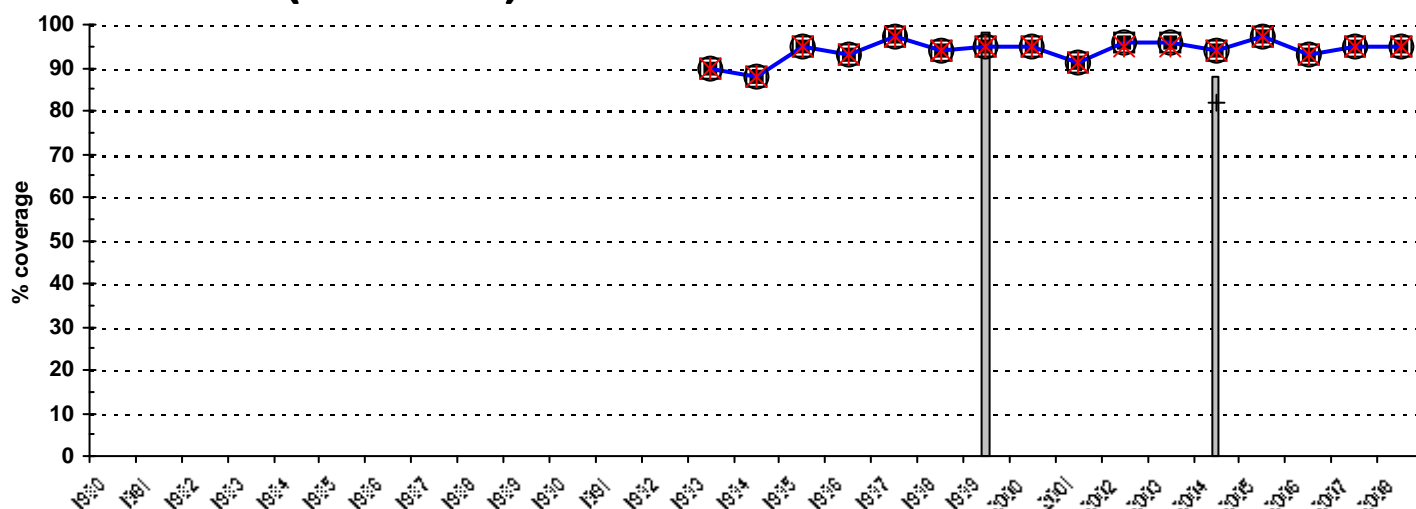
\*Prior to 1998 national reports to WHO/UNICEF did not specify whether information was derived from administrative records, surveys or other sources.

\*\*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.

# The former Yugoslav Republic of Macedonia

## DTP3 (1980-2008)



### Description of trend

Estimated immunization coverage levels are based on reported data supported 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	90	90	90	90	90		
1994	88	88	88	88	88		
1995	95	95	95	95	95		
1996	93	93	93	93	93		
1997	97	97	97	97	97		
1998	94	94	94	94	94		
1999	95	95	95	95	95	98	
2000	95	95	95	95	95		
2001	91	91	91	91	91		
2002	96	96	96	96	95		
2003	96	96	96	96	95		
2004	94	94	94	94	94	88	
2005	97	97	97	97	97	88	82
2006	93	93	93	93	93		
2007	95	95	95	95	95		
2008	95	95	95	95	95		

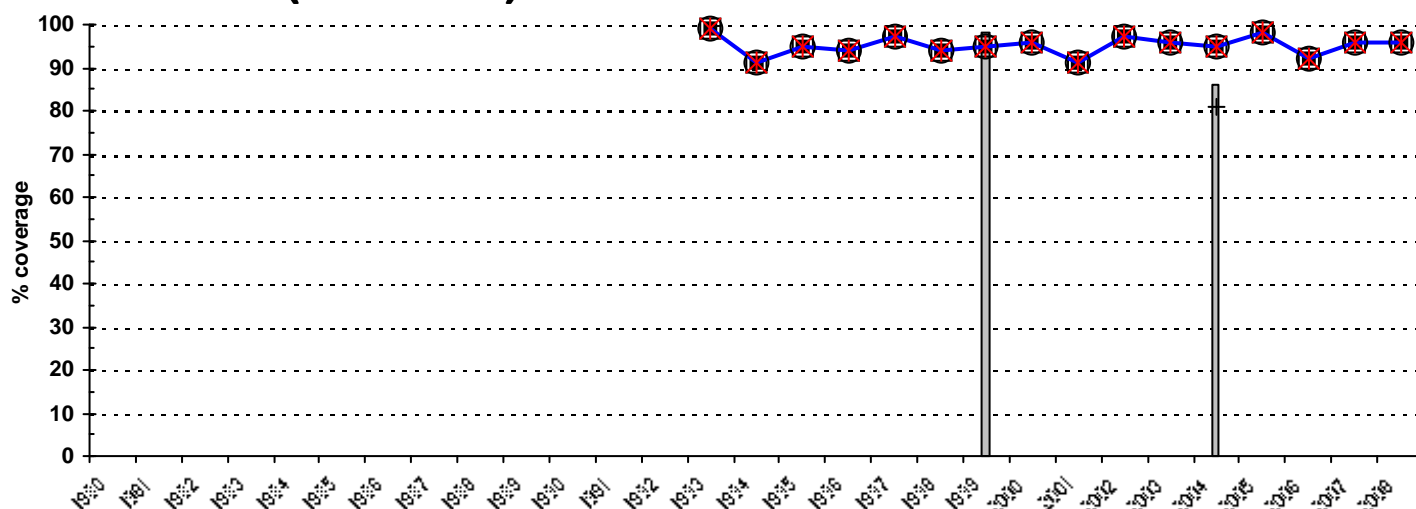
\*Prior to 1998 national reports to WHO/UNICEF did not specify whether information was derived from administrative records, surveys or other sources.

\*\*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.

# The former Yugoslav Republic of Macedonia

## Pol3 (1980-2008)



### Description of trend

Estimated immunization coverage levels are based on reported data supported 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	99	99	99	99	99		
1994	91	91	91	91	91		
1995	95	95	95	95	95		
1996	94	94	94	94	94		
1997	97	97	97	97	97		
1998	94	94	94	94	94		
1999	95	95	95	95	95	98	
2000	96	96	96	96	96		
2001	91	91	91	91	91		
2002	97	97	97	97	97		
2003	96	96	96	96	96		
2004	95	95	95	95	95	86	81
2005	98	98	98	98	98		
2006	92	92	92	92	92		
2007	96	96	96	96	96		
2008	96	96	96	96	96		

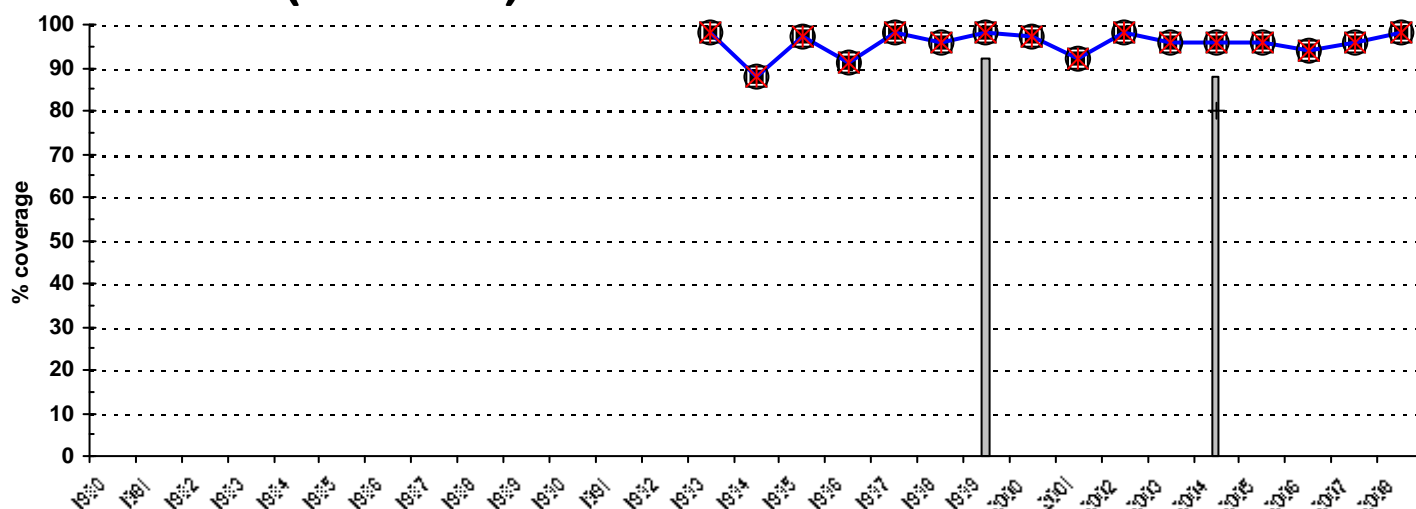
\*Prior to 1998 national reports to WHO/UNICEF did not specify whether information was derived from administrative records, surveys or other sources.

\*\*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.

# The former Yugoslav Republic of Macedonia

## MCV (1980-2008)



### Description of trend

Estimated immunization coverage levels are based on reported data supported 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	98	98	98	98	98		
1994	88	88	88	88	88		
1995	97	97	97	97	97		
1996	91	91	91	91	91		
1997	98	98	98	98	98		
1998	96	96	96	96	96		
1999	98	98	98	98	98	92	
2000	97	97	97	97	97		
2001	92	92	92	92	92		
2002	98	98	98	98	98		
2003	96	96	96	96	96		
2004	96	96	96	96	96	88	80
2005	96	96	96	96	96		
2006	94	94	94	94	94		
2007	96	96	96	96	96		
2008	98	98	98	98	98		

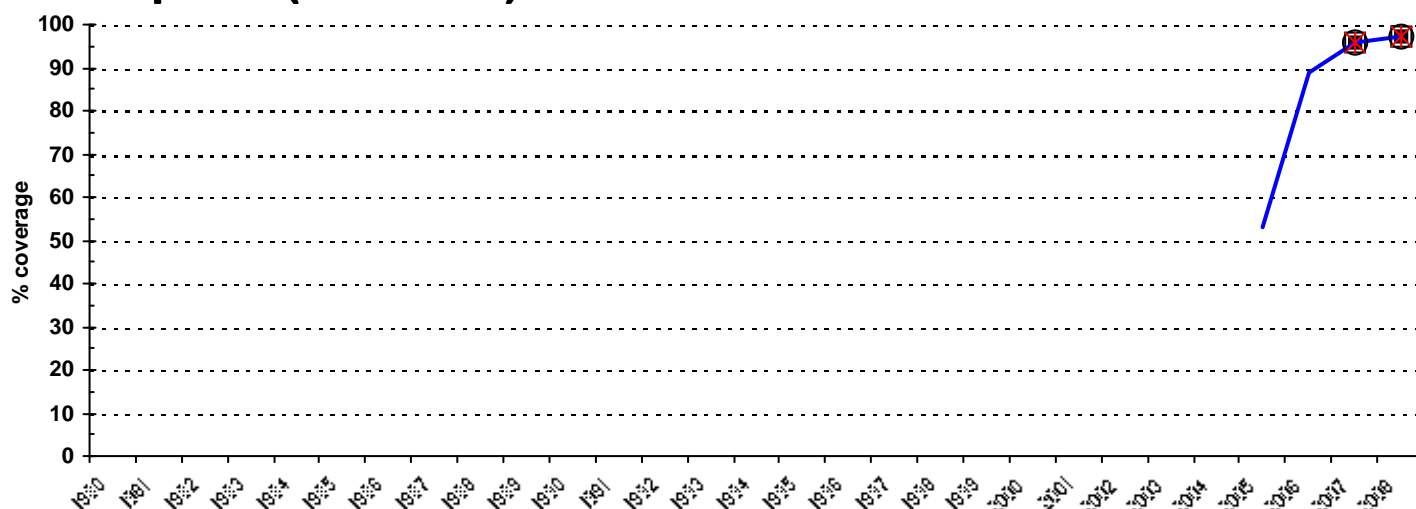
\*Prior to 1998 national reports to WHO/UNICEF did not specify whether information was derived from administrative records, surveys or other sources.

\*\*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.

# The former Yugoslav Republic of Macedonia

## HepB3 (1980-2008)



### Description of trend

Monovalent HepB vaccine introduced in 2004. In 2005 91% was reached in 58 % of the country. In 2006 93% was reached in 95% of the 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							
2005	53						
2006	89						
2007	96	96	96	96	96		
2008	97	97	97	97	97		

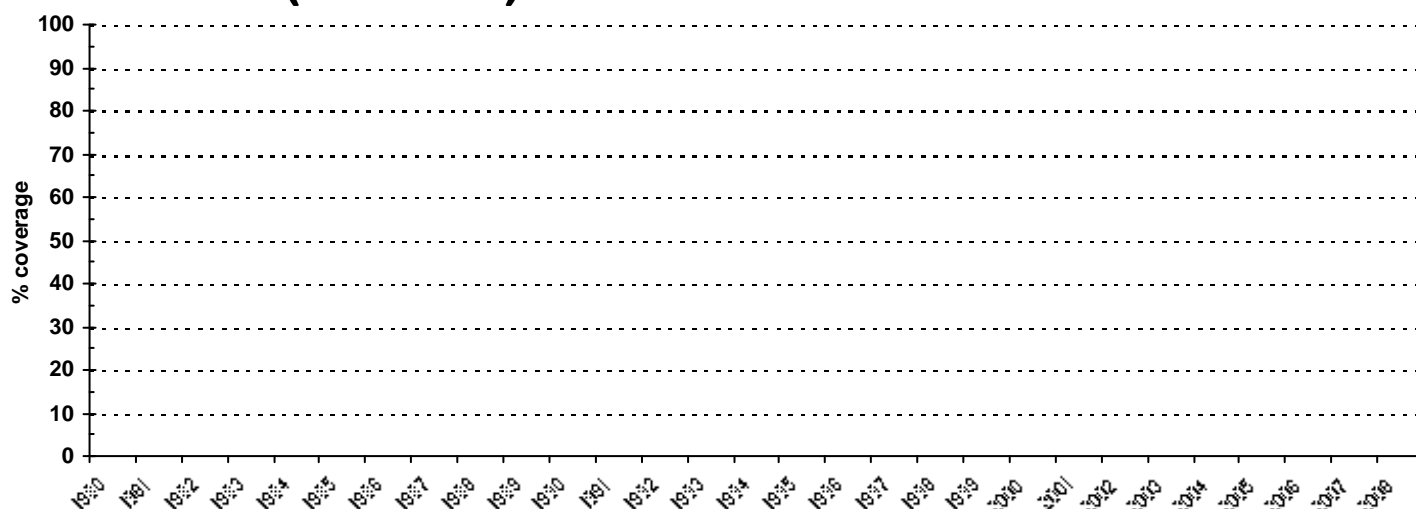
\*Prior to 1998 national reports to WHO/UNICEF did not specify whether information was derived from administrative records, surveys or other sources.

\*\*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.

# The former Yugoslav Republic of Macedonia

## Hib3 (1980-2008)



### Description of trend

Hib3 vaccine introduced in 2008. In 2008 49% coverage was reached in 27% of the 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							
2005							
2006							
2007							
2008	13						

\*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.

# The former Yugoslav Republic of Macedonia

## Details Survey Data

### Year Source

Antigen	Confirmation method	% coverage	Compliance with schedule	Age group	Sample size	% cards seen	Survey year	Comments
<b>2004 Republic of Macedonia Multiple Indicator Cluster Survey 2005-2006</b>								
BCG	Card or History	98		15-26 m	884	75.1	2005	
BCG	C or H <12 month	97.2		15-26 m	884	75.1	2005	
DTP1	Card or History	96.6		15-26 m	884	75.1	2005	
DTP1	C or H <12 month	94		15-26 m	884	75.1	2005	
DTP3	Card or History	88.3		15-26 m	884	75.1	2005	
DTP3	C or H <12 month	82.1		15-26 m	884	75.1	2005	
Pol3	Card or History	86.4		15-26 m	884	75.1	2005	
Pol3	C or H <12 month	80.8		15-26 m	884	75.1	2005	
MCV	Card or History	88.4		15-26 m	884	75.1	2005	
MCV	C or H <12 month	80.4		15-26 m	884	75.1	2005	

### 1999 Multiple Indicator Cluster Survey in FYR Macedonia with Micronutrient Component, 2000

BCG	Card or History	99.1		13-24 m	275		2000	
DTP1	Card or History			13-24 m	275		2000	
DTP3	Card or History	97.9		13-24 m	275		2000	
Pol3	Card or History	97.9		13-24 m	275		2000	
MCV	Card or History	92		13-24 m	275		2000	MMR

