

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

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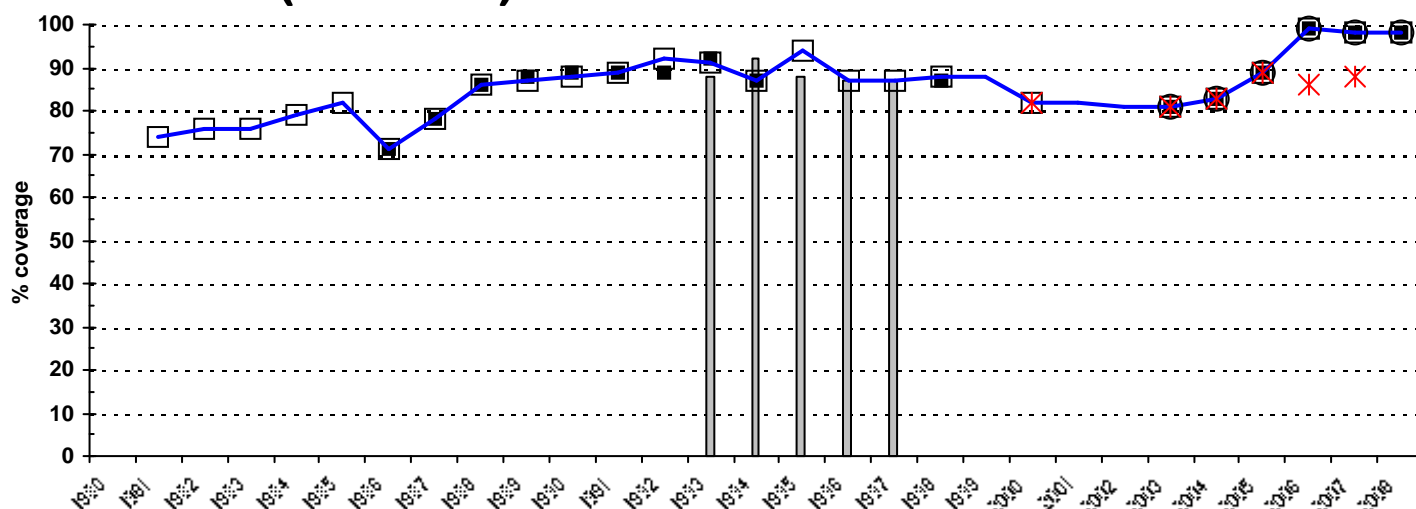
***Portugal***

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**July, 2009**

# Portugal

## BCG (1980-2008)



### Description of trend

Estimated immunization coverage levels are based on reported data and 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	74	74					
1982	76	76					
1983	76	76					
1984	79	79					
1985	82	82					
1986	71	71	71				
1987	78	78	78				
1988	86	86	86				
1989	87	87	88				
1990	88	88	89				
1991	89	89	89				
1992	92	92	89				
1993	91	91	92			88	
1994	87	87	87			92	
1995	94	94				88	
1996	87	87				87	
1997	87	87				87	
1998	88	88	87				
1999	88						
2000	82	82			82		
2001	82						
2002	81						
2003	81	81	81	81	81		
2004	83	83	83	83	83		
2005	89	89	89	89	89		
2006	99	99	99	99	86		
2007	98	98	98	98	88		
2008	98	98	98	98	104		

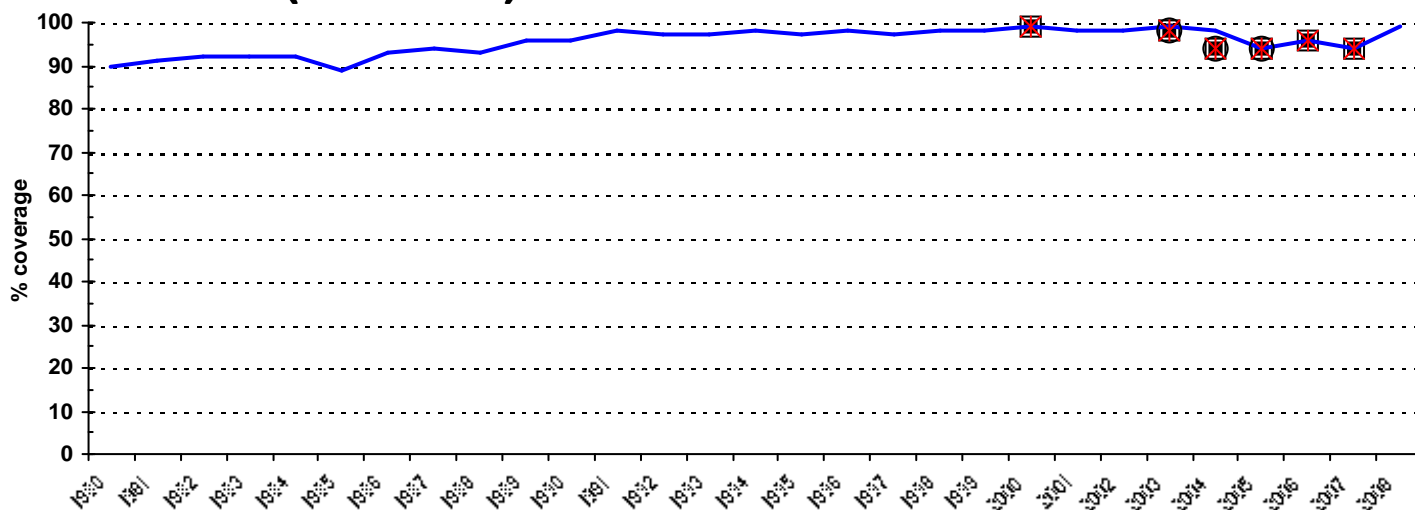
\*Prior to 1998 national reports to WHO/UNICEF did not specify whether information was derived from administrative records, surveys or other sources.

\*\*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.

# Portugal

## 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 for 2000 ; 2003. The DTP1 estimates from 2000 and 2003 are based on these reports. For other years, 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. Note that reported DTP1 in 2006 was lower than reported DTP3.

### 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	90						
1981	91						
1982	92						
1983	92						
1984	92						
1985	89						
1986	93						
1987	94						
1988	93						
1989	96						
1990	96						
1991	98						
1992	97						
1993	97						
1994	98						
1995	97						
1996	98						
1997	97						
1998	98						
1999	98						
2000	99	99	99		99		
2001	98						
2002	98						
2003	99	98	98	98	98		
2004	98	94	94	94	94		
2005	94	94	94	94	94		
2006	96	96	96		96		
2007	94	94	94		94		
2008	99	101	101		101		

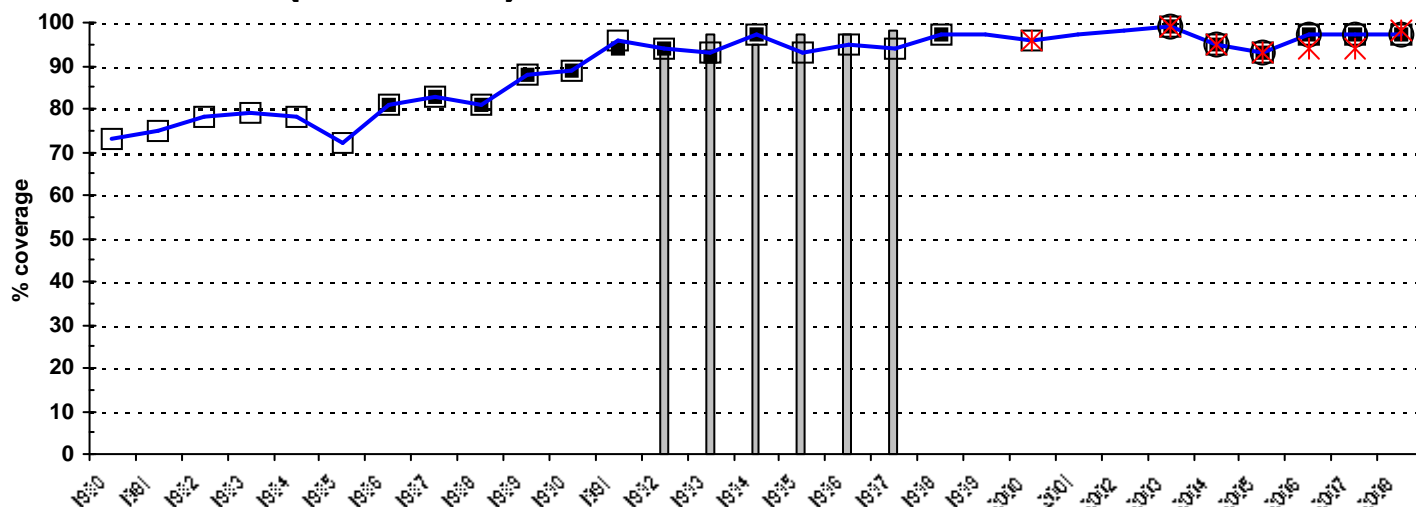
\*Prior to 1998 national reports to WHO/UNICEF did not specify whether information was derived from administrative records, surveys or other sources.

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# Portugal

## DTP3 (1980-2008)



### Description of trend

Estimated immunization coverage levels are based on reported data and 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	73	73					
1981	75	75					
1982	78	78					
1983	79	79					
1984	78	78					
1985	72	72					
1986	81	81	81				
1987	83	83	83				
1988	81	81	81				
1989	88	88	88				
1990	89	89	89				
1991	96	96	94				
1992	94	94	94			93	
1993	93	93	92			97	
1994	97	97	97			95	
1995	93	93				97	
1996	95	95				97	
1997	94	94				98	
1998	97	97	97				
1999	97						
2000	96	96			96		
2001	97						
2002	98						
2003	99	99	99	99	99		
2004	95	95	95	95	95		
2005	93	93	93	93	93		
2006	97	97	97	97	94		
2007	97	97	97	97	94		
2008	97	97	97	97	98		

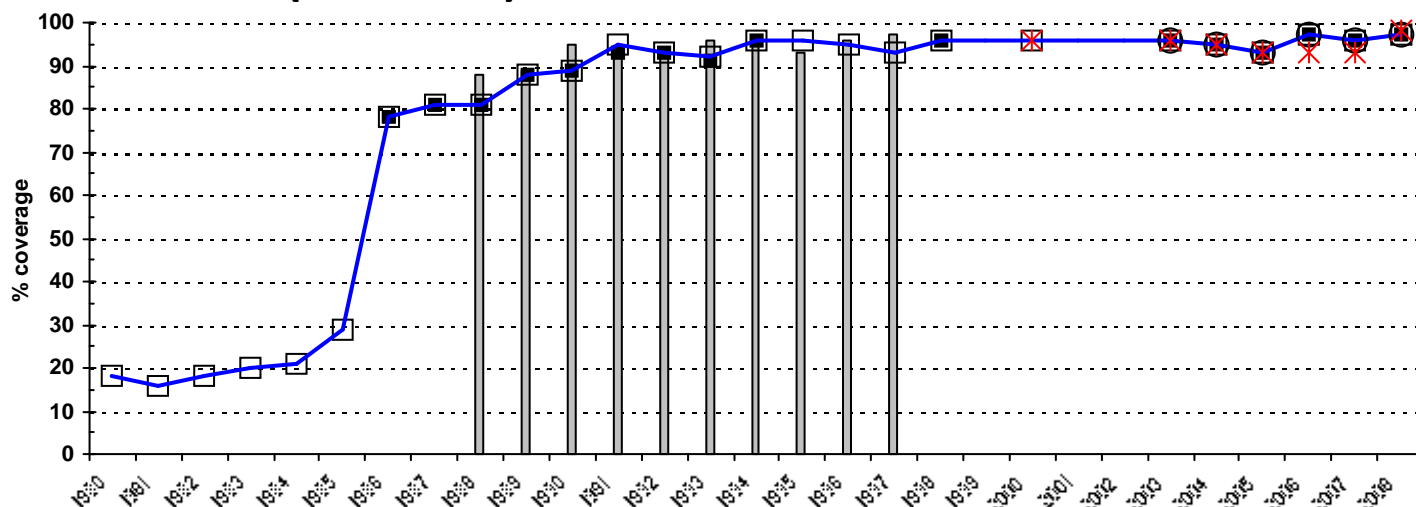
\*Prior to 1998 national reports to WHO/UNICEF did not specify whether information was derived from administrative records, surveys or other sources.

\*\*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.

# Portugal

## Pol3 (1980-2008)



### Description of trend

Estimated immunization coverage levels are based on reported data and 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	18	18					
1981	16	16					
1982	18	18					
1983	20	20					
1984	21	21					
1985	29	29					
1986	78	78	78				
1987	81	81	81				
1988	81	81	81			88	
1989	88	88	88			89	
1990	89	89	89			95	
1991	95	95	93			92	
1992	93	93	93			92	
1993	92	92	91			96	
1994	96	96	96			95	
1995	96	96				93	
1996	95	95				96	
1997	93	93				97	
1998	96	96	96				
1999	96						
2000	96	96			96		
2001	96						
2002	96						
2003	96	96	96	96	96		
2004	95	95	95	95	95		
2005	93	93	93	93	93		
2006	97	97	97	97	93		
2007	96	96	96	96	93		
2008	97	97	97	97	98		

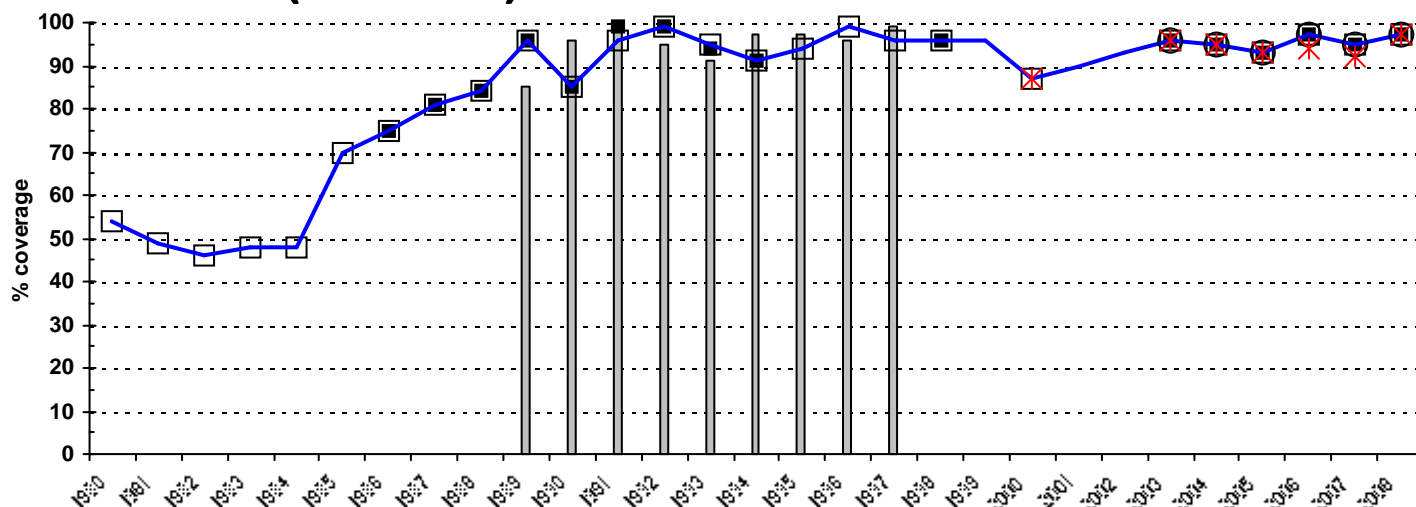
\*Prior to 1998 national reports to WHO/UNICEF did not specify whether information was derived from administrative records, surveys or other sources.

\*\*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.

# Portugal

## MCV (1980-2008)



### Description of trend

Estimated immunization coverage levels are based on reported data and 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	54	54					
1981	49	49					
1982	46	46					
1983	48	48					
1984	48	48					
1985	70	70					
1986	75	75	75				
1987	81	81	81				
1988	84	84	84				
1989	96	96	96			85	
1990	85	85	85			96	
1991	96	96	99			99	
1992	99	99	99			95	
1993	95	95	94			91	
1994	91	91	91			97	
1995	94	94				97	
1996	99	99				96	
1997	96	96				99	
1998	96	96	96				
1999	96						
2000	87	87			87		
2001	90						
2002	93						
2003	96	96	96	96	96		
2004	95	95	95	95	95		
2005	93	93	93	93	93		
2006	97	97	97	97	94		
2007	95	95	95	95	92		
2008	97	97	97	97	97		

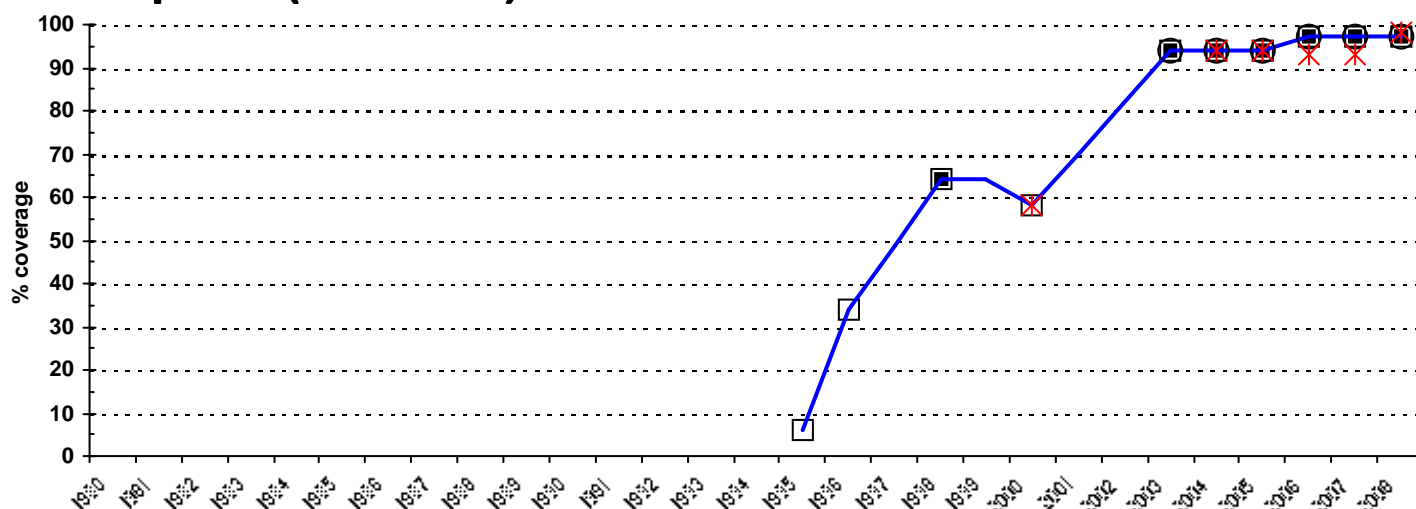
\*Prior to 1998 national reports to WHO/UNICEF did not specify whether information was derived from administrative records, surveys or other sources.

\*\*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.

# Portugal

## HepB3 (1980-2008)



### Description of trend

Hepatitis B vaccine was introduced in 1994. Estimated immunization coverage levels are based on 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							
1993							
1994							
1995	6	6					
1996	34	34					
1997	49						
1998	64	64	64				
1999	64						
2000	58	58			58		
2001	70						
2002	82						
2003	94	94	94	94			
2004	94	94	94	94	94		
2005	94	94	94	94	94		
2006	97	97	97	97	93		
2007	97	97	97	97	93		
2008	97	97	97	97	98		

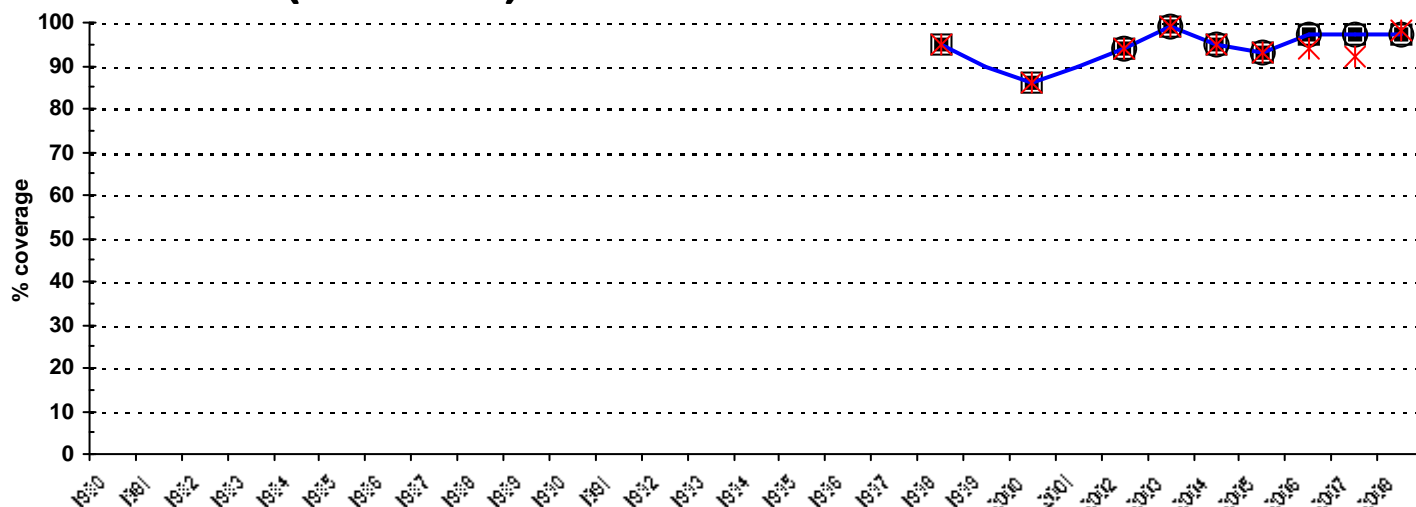
\*Prior to 1998 national reports to WHO/UNICEF did not specify whether information was derived from administrative records, surveys or other sources.

\*\*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.

# Portugal

## Hib3 (1980-2008)



### Description of trend

Estimated immunization coverage levels are based on reported data and 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							
1994							
1995							
1996							
1997							
1998	95	95	95		95		
1999	90						
2000	86	86	86		86		
2001	90						
2002	94	94	94	94	94		
2003	99	99	99	99	99		
2004	95	95	95	95	95		
2005	93	93	93	93	93		
2006	97	97	97	97	94		
2007	97	97	97	97	92		
2008	97	97	97	97	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.

# Portugal

## Details Survey Data

### Year Source

Antigen	Confirmation method	% coverage	Compliance with schedule	Age group	Sample size	% cards seen	Survey year	Comments
<b>1997 MOH, reported in response to draft estimates, June 2001.</b>								
BCG	Card or History	86.6		12-23 m			1998	Confirmation method assumed
DTP3	Card or History	97.5		12-23 m			1998	Confirmation method assumed
Pol3	Card or History	97.4		12-23 m			1998	Confirmation method assumed
MCV	Card or History	99		12-23 m			1998	Confirmation method assumed
<b>1996 MOH, reported in response to draft estimates, June 2001.</b>								
BCG	Card or History	86.6		12-23 m			1997	Confirmation method assumed
DTP3	Card or History	97.1		12-23 m			1997	Confirmation method assumed
Pol3	Card or History	96.2		12-23 m			1997	Confirmation method assumed
MCV	Card or History	96		12-23 m			1997	Confirmation method assumed
<b>1995 MOH, reported in response to draft estimates, June 2001.</b>								
BCG	Card or History	87.7		12-23 m			1996	Confirmation method assumed
DTP3	Card or History	97.4		12-23 m			1996	Confirmation method assumed
Pol3	Card or History	92.6		12-23 m			1996	Confirmation method assumed
MCV	Card or History	97.3		12-23 m			1996	Confirmation method assumed
<b>1994 MOH, reported in response to draft estimates, June 2001.</b>								
BCG	Card or History	92.1		12-23 m			1995	Confirmation method assumed
DTP3	Card or History	94.6		12-23 m			1995	Confirmation method assumed
Pol3	Card or History	95		12-23 m			1995	Confirmation method assumed
MCV	Card or History	97		12-23 m			1995	Confirmation method assumed
<b>1993 MOH, reported in response to draft estimates, June 2001.</b>								
BCG	Card or History	88.1		12-23 m			1994	Confirmation method assumed
DTP3	Card or History	96.8		12-23 m			1994	Confirmation method assumed
Pol3	Card or History	96		12-23 m			1994	Confirmation method assumed
MCV	Card or History	91.4		12-23 m			1994	Confirmation method assumed
<b>1992 MOH, reported in response to draft estimates, June 2001.</b>								
DTP3	Card or History	92.6		12-23 m			1993	Confirmation method assumed
Pol3	Card or History	91.5		12-23 m			1993	Confirmation method assumed
MCV	Card or History	95.1		12-23 m			1993	Confirmation method assumed
<b>1991 MOH, reported in response to draft estimates, June 2001.</b>								
Pol3	Card or History	92.5		12-23 m			1992	Confirmation method assumed
MCV	Card or History	98.9		12-23 m			1992	Confirmation method assumed
<b>1990 MOH, reported in response to draft estimates, June 2001.</b>								
Pol3	Card or History	94.9		12-23 m			1991	Confirmation method assumed
MCV	Card or History	96.4		12-23 m			1991	Confirmation method assumed
<b>1989 MOH, reported in response to draft estimates, June 2001.</b>								
Pol3	Card or History	89.2		12-23 m			1990	Confirmation method assumed
MCV	Card or History	84.6		12-23 m			1990	Confirmation method assumed

# Portugal

## Details Survey Data

### Year Source

Antigen	Confirmation method	% coverage	Compliance with schedule	Age group	Sample size	% cards seen	Survey year	Comments
<b>1988 MOH, reported in response to draft estimates, June 2001.</b>								
Pol3	Card or History	87.8		12-23 m			1989	Confirmation method assumed