

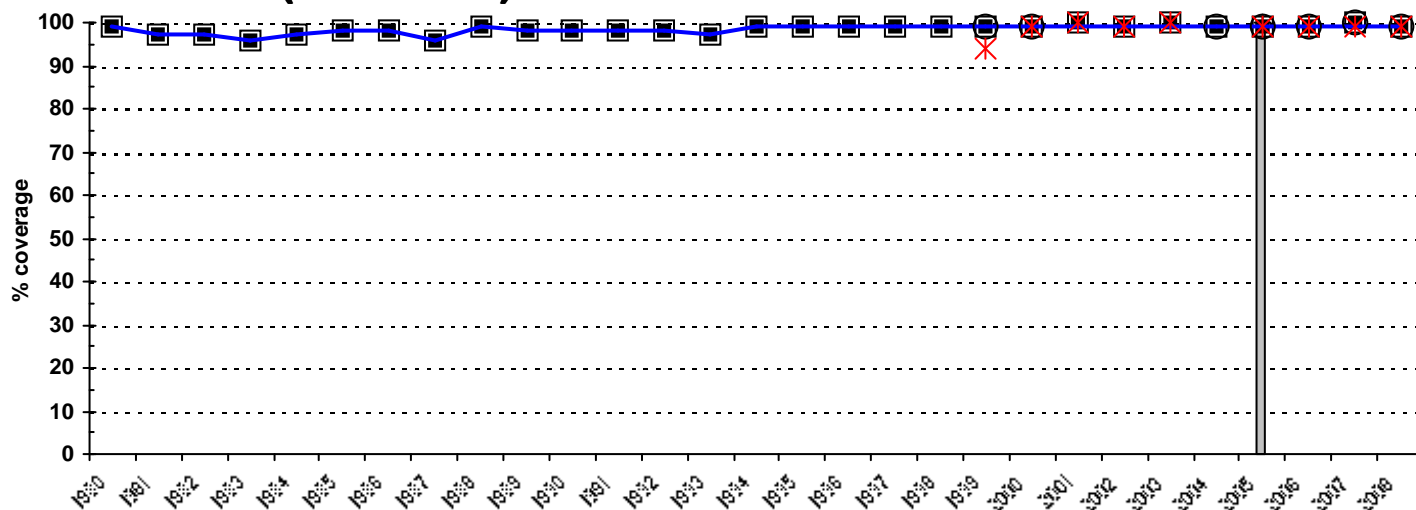
**WHO/UNICEF
Review of National Immunization Coverage
1980-2008**

Cuba

July, 2009

Cuba

BCG (1980-2008)



Description of trend

Trend follows WHO officially 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	99	99	99				
1981	97	97	97				
1982	97	97	97				
1983	96	96	96				
1984	97	97	97				
1985	98	98	98				
1986	98	98	98				
1987	96	96	96				
1988	99	99	99				
1989	98	98	98				
1990	98	98	98				
1991	98	98	98				
1992	98	98	98				
1993	97	97	97				
1994	99	99	99				
1995	99	99	99				
1996	99	99	99				
1997	99	99	99				
1998	99	99	99				
1999	99	99	99	99	94		
2000	99	99	99	99	99		
2001	99	100	100		100		
2002	99	99	99		99		
2003	99	100	100		100		
2004	99	99	99	99			
2005	99	99	99	99	99	100	100
2006	99	99	99	99	99		
2007	99	100	100	100	99		
2008	99	99	99	99	99		

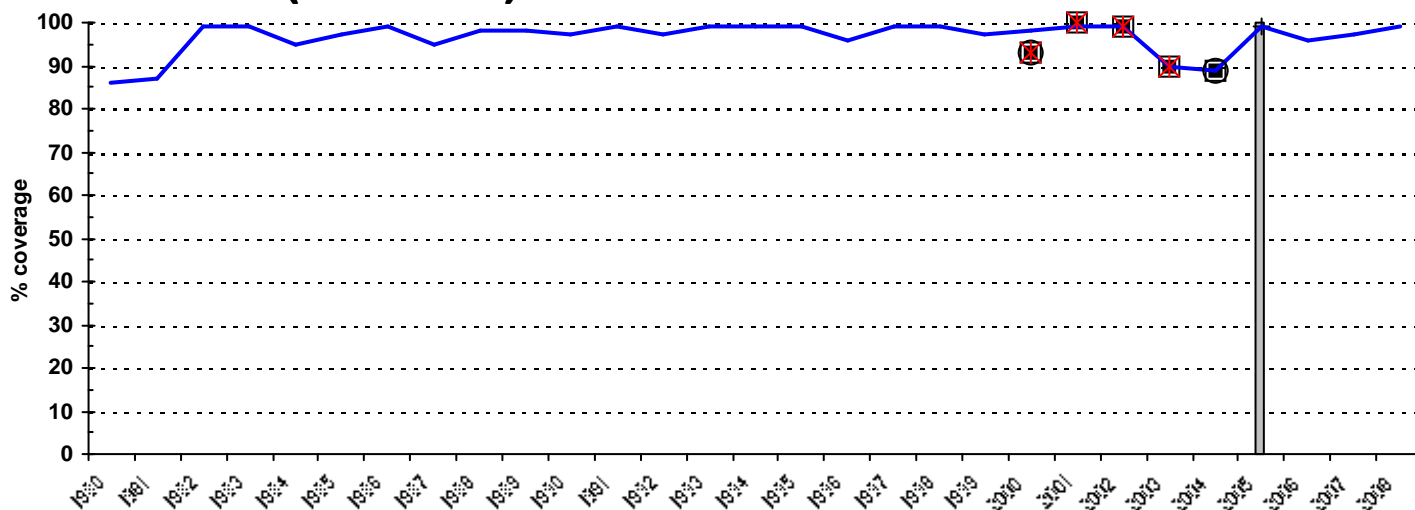
*Prior to 1998 national reports to WHO/UNICEF did not specify whether information was derived from administrative records, surveys or other sources.

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

***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.

Cuba

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 2001 onward are based on these reports. For years prior to 2001 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	86						
1981	87						
1982	99						
1983	99						
1984	95						
1985	97						
1986	99						
1987	95						
1988	98						
1989	98						
1990	97						
1991	99						
1992	97						
1993	99						
1994	99						
1995	99						
1996	96						
1997	99						
1998	99						
1999	97						
2000	98	93	93	93	93		
2001	99	100	100		100		
2002	99	99	99		99		
2003	90	90	90		90		
2004	89	89	89	89			
2005	99					100	99
2006	96						
2007	97						
2008	99	104	104	104	104		

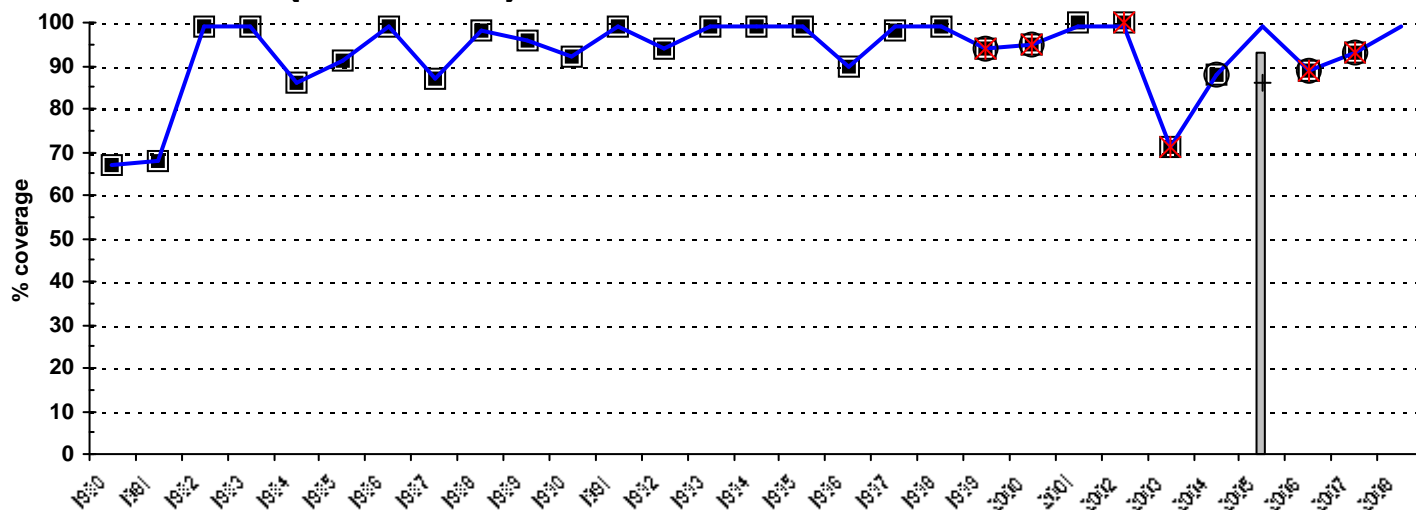
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Cuba

DTP3 (1980-2008)



Description of trend

Trend follows WHO officially reported data supported by survey results. Decline in 2003 attributed to interruption of vaccine supply. Catch-up campaigns conducted in 2005. In 2006 Cuba changed from DTP-HepB to DTP-Hib-HepB combination 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	67	67	67				
1981	68	68	68				
1982	99	99	99				
1983	99	99	99				
1984	86	86	86				
1985	91	91	91				
1986	99	99	99				
1987	87	87	87				
1988	98	98	98				
1989	96	96	96				
1990	92	92	92				
1991	99	99	99				
1992	94	94	94				
1993	99	99	99				
1994	99	99	99				
1995	99	99	99				
1996	90	90	90				
1997	99	98	98				
1998	99	99	99				
1999	94	94	94	94	94		
2000	95	95	95	95	95		
2001	99	100	100		112		
2002	99	100	100		100		
2003	71	71	71		71		
2004	88	88	88	88			
2005	99	143	143		143	93	
2006	89	89	89	89	89	86	
2007	93	93	93	93	93		
2008	99	104	104	104	104		

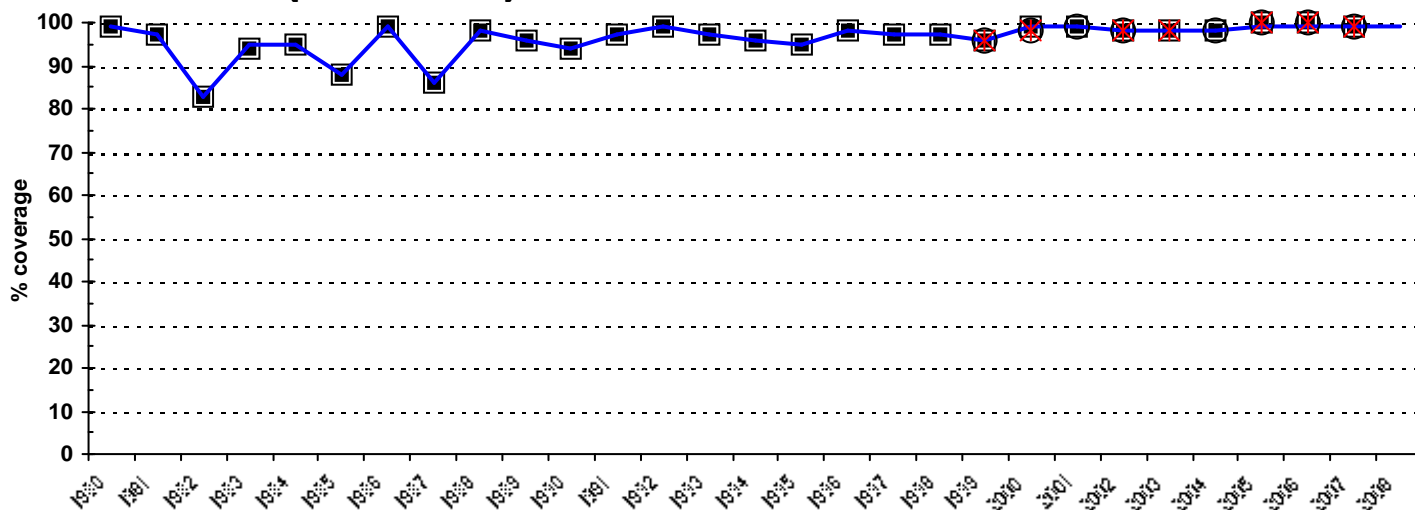
*Prior to 1998 national reports to WHO/UNICEF did not specify whether information was derived from administrative records, surveys or other sources.

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Cuba

Pol3 (1980-2008)



Description of trend

Cuba recommends 2 doses between birth and one year of age, followed by 2 doses between one and two years of age, and two doses between two and three. The second dose of polio vaccine under age one is reported as the third dose of polio vaccine. Trend follows WHO official report data.

Data presented in chart

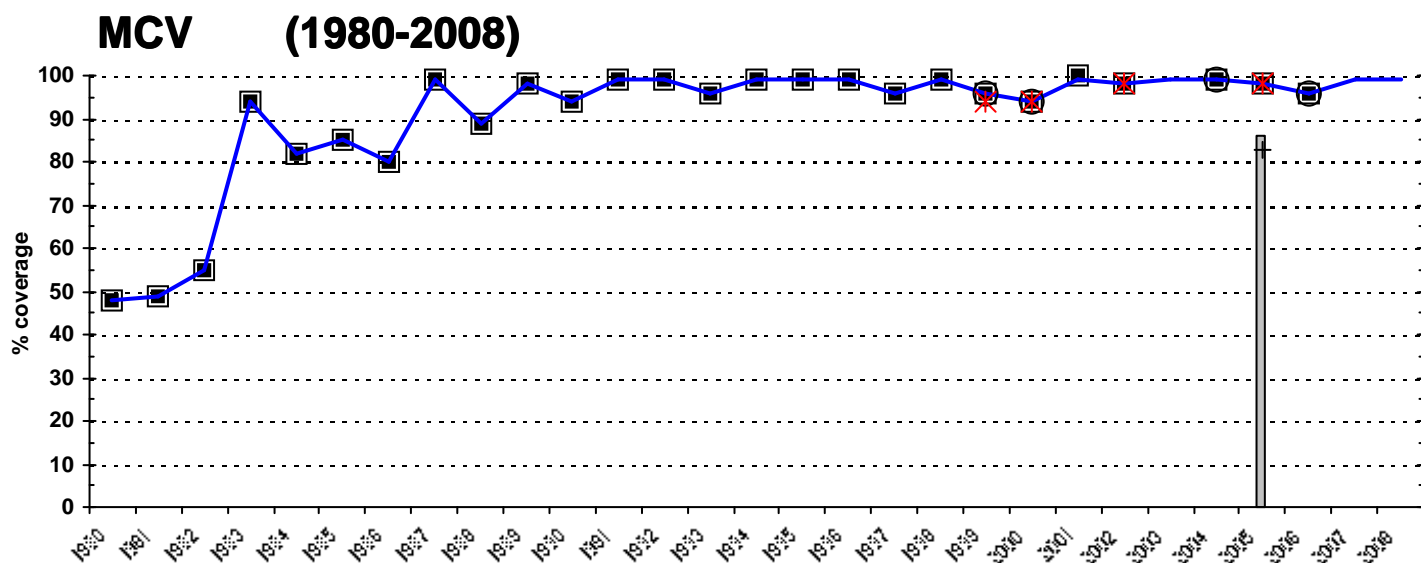
Year	WHO/ UNICEF estimate (%)	Reported to:*		Government official estimate (%)	Reported doses administered (%)**	Survey data (%)***	
		WHO (%)	UNICEF (%)			Survey 12-23 months	Survey <12 months
1980	99	99	99				
1981	97	97	97				
1982	83	83	83				
1983	95	94	94				
1984	95	95	95				
1985	88	88	88				
1986	99	99	99				
1987	86	86	86				
1988	98	98	98				
1989	96	96	96				
1990	94	94	94				
1991	97	97	97				
1992	99	99	99				
1993	97	97	97				
1994	96	96	96				
1995	95	95	95				
1996	98	98	98				
1997	97	97	97				
1998	97	97	97				
1999	96	96	96	96	96		
2000	99	99	99	98	98		
2001	99	99	99	99	99		
2002	98	98	98	98	98		
2003	98	98	98	98	98		
2004	98	98	98	98	98		
2005	99	100	100	100	100		
2006	99	100	100	100	100		
2007	99	99	99	99	99		
2008	99	101	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.

**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.

Cuba



Description of trend

Trend follows WHO officially reported data supported by survey results. Measles vaccination is recommended at 12-23 months; survey result underestimate coverage.

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	48	48	48				
1981	49	49	49				
1982	55	55	55				
1983	94	94	94				
1984	82	82	82				
1985	85	85	85				
1986	80	80	80				
1987	99	99	99				
1988	89	89	89				
1989	98	98	98				
1990	94	94	94				
1991	99	99	99				
1992	99	99	99				
1993	96	96	96				
1994	99	99	99				
1995	99	99	99				
1996	99	99	99				
1997	96	96	96				
1998	99	99	99				
1999	96	96	96	96	94		
2000	94	94	94	94	94		
2001	99	100	100		114		
2002	98	98	98		98		
2003	99	105	105		105		
2004	99	99	99	99			
2005	98	98	98		98		
2006	96	96	96	96	98	86	83
2007	99	102	102	102	102		
2008	99	103	103	103	103		

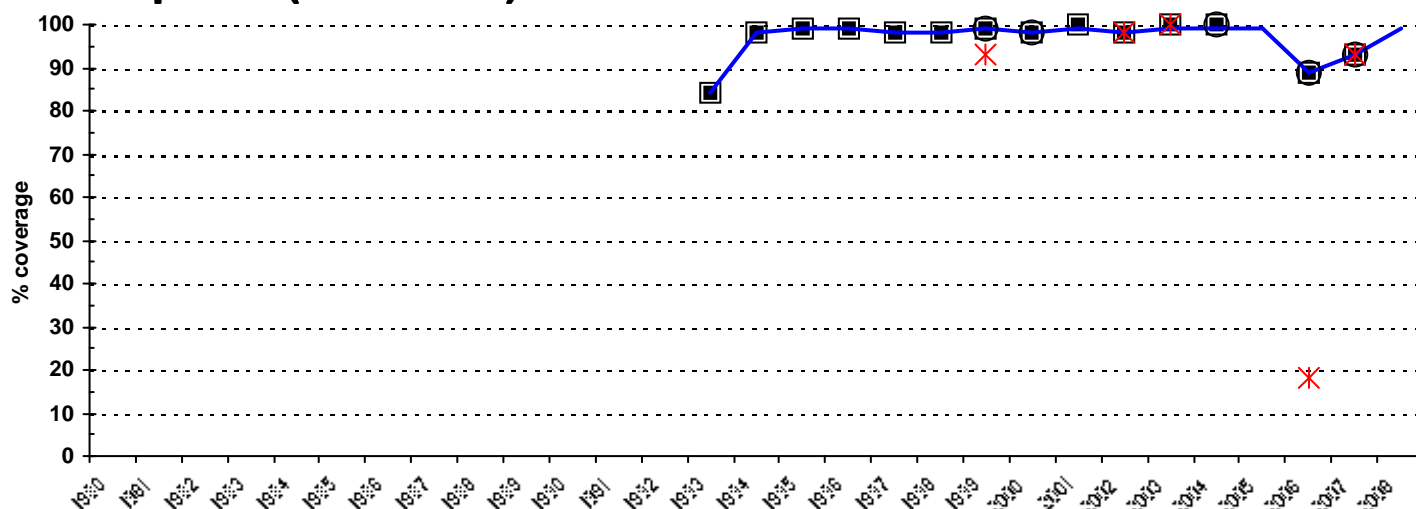
*Prior to 1998 national reports to WHO/UNICEF did not specify whether information was derived from administrative records, surveys or other sources.

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

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Cuba

HepB3 (1980-2008)



Description of trend

Coverage rates for Hepatitis B immunization, introduced in 1990. 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							
1991							
1992							
1993	84	84	84				
1994	98	98	98				
1995	99	99	99				
1996	99	99	99				
1997	98	98	98				
1998	98	98	98				
1999	99	99	99	99	93		
2000	98	98	98	98	101		
2001	99	100	100		101		
2002	98	98	98		98		
2003	99	100	100		100		
2004	99	100	100	100			
2005	99	106	106		106		
2006	89	89	89	89	18		
2007	93	93	93	93	93		
2008	99	104	104	104	104		

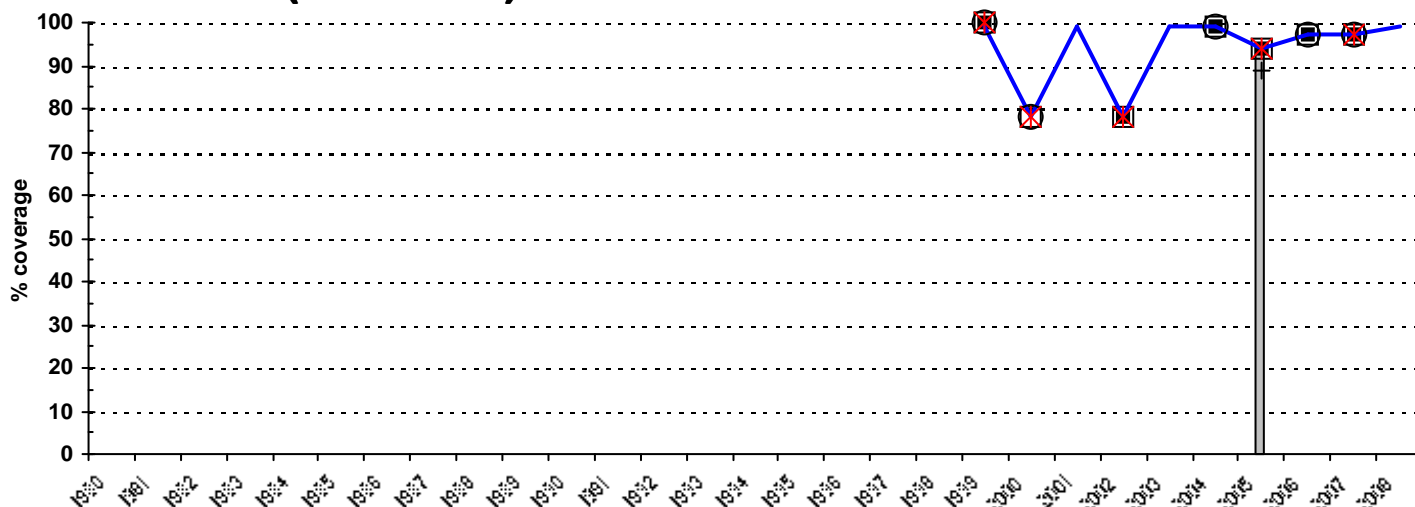
*Prior to 1998 national reports to WHO/UNICEF did not specify whether information was derived from administrative records, surveys or other sources.

**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.

Cuba

Hib3 (1980-2008)



Description of trend

Hib vaccine introduced in 1999. 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							
1991							
1992							
1993							
1994							
1995							
1996							
1997							
1998							
1999	99	100	100	100	100		
2000	78	78		78	78		
2001	99	104		104	104		
2002	78	78	78		78		
2003	99	123	123		123		
2004	99	99	99	99			
2005	94	94	94		94	95	89
2006	97	97	97	97	152		
2007	97	97	97	97	97		
2008	99	104	104	104	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.

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Cuba

Details Survey Data

Year Source

Antigen	Confirmation method	% coverage	Compliance with schedule	Age group	Sample size	% cards seen	Survey year	Comments
2005 La Encuesta de Indicadores Múltiples por Conglomerados 2006 de Cuba								
BCG	Card or History	99.9		12-23 m	1840	97.5	2006	
BCG	C or H <12 month	99.9		12-23 m	1840	97.5	2006	
DTP1	Card or History	99.5		12-23 m	1840	97.5	2006	
DTP1	C or H <12 month	99.3		12-23 m	1840	97.5	2006	
DTP3	Card or History	92.6		12-23 m	1840	97.5	2006	
DTP3	C or H <12 month	86.3		12-23 m	1840	97.5	2006	
MCV	Card or History	86.3		12-23 m	1840	97.5	2006	
MCV	C or H <12 month	82.7		12-23 m	1840	97.5	2006	
Hib3	Card or History	95		12-23 m	1840	97.5	2006	
Hib3	C or H <12 month	89		12-23 m	1840	97.5	2006	

