

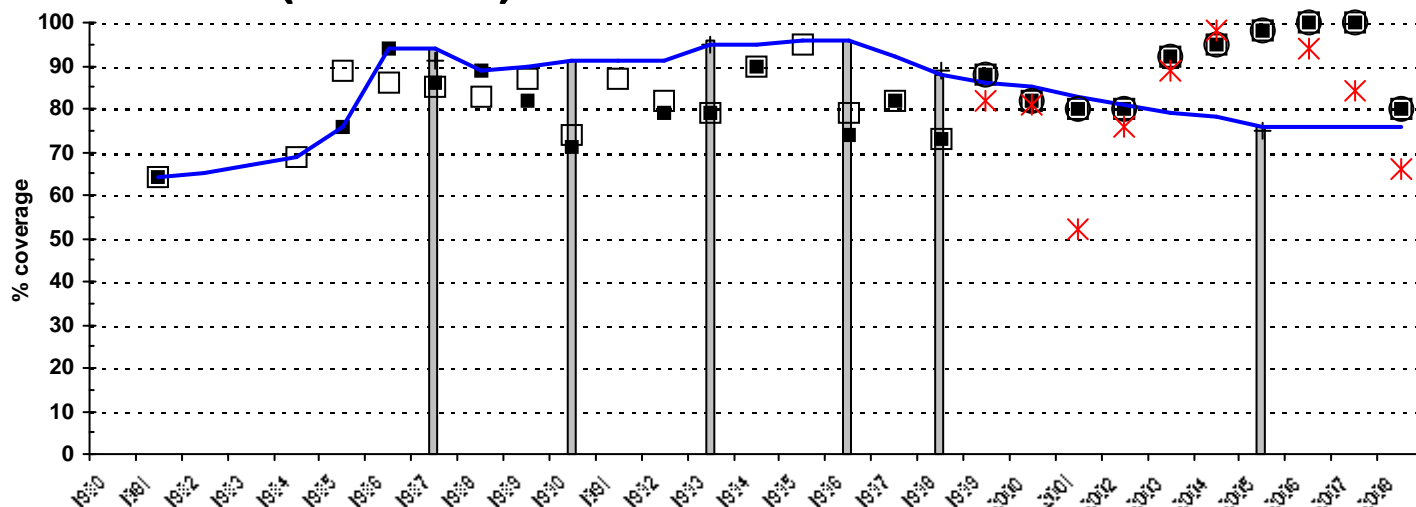
**WHO/UNICEF
Review of National Immunization Coverage
1980-2008**

Zimbabwe

July, 2009

Zimbabwe

BCG (1980-2008)



Description of trend

Estimates from 1987 onward are based on survey results. The Zimbabwe National Nutrition and EPI Survey 2003 does not report BCG 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							
1981	64	64	64				
1982	65						
1983	67						
1984	69	69					
1985	76	89	76				
1986	94	86	94				
1987	94	85	86			94	91
1988	89	83	89				
1989	90	87	82				
1990	91	74	71			91	
1991	91	87					
1992	91	82	79				
1993	95	79	79			96	95
1994	95	90	90				
1995	96	95					
1996	96	79	74			96	
1997	92	82	82				
1998	88	73	73			88	89
1999	86	88	88	88	82		
2000	85	82	82	82	81		
2001	83	80	80	80	52		
2002	81	80	80	80	76		
2003	79	92	92	92	89		
2004	78	95	95	95	98		
2005	76	98	98	98	101	76	75
2006	76	100	100	100	94		
2007	76	100	100	100	84		
2008	76	80	80	80	66		

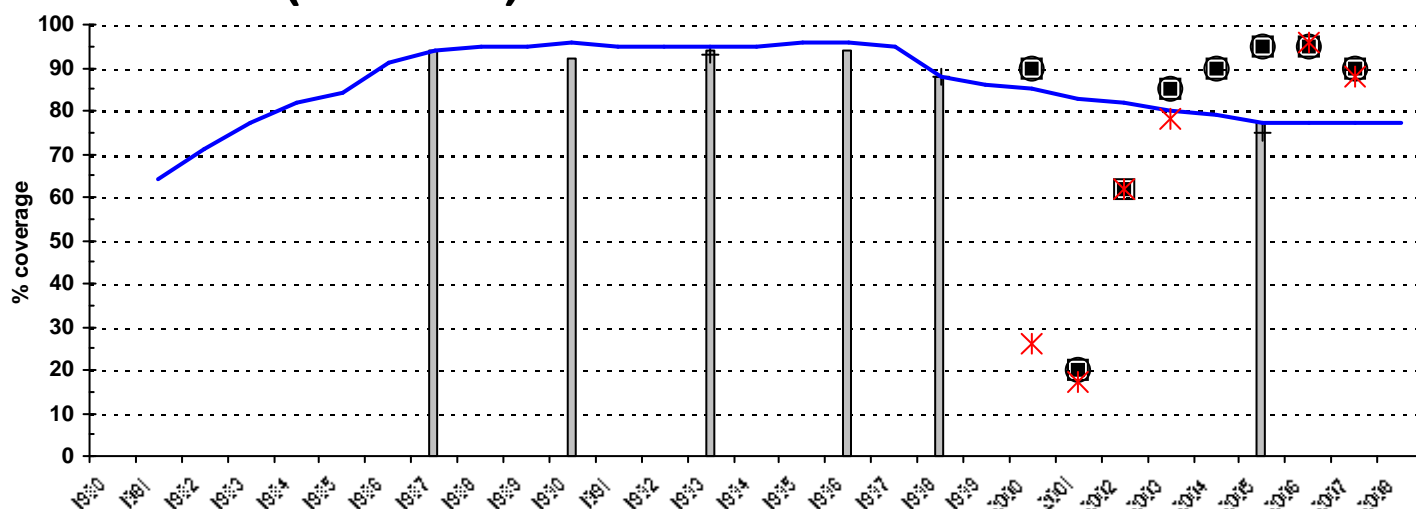
*Prior to 1998 national reports to WHO/UNICEF did not specify whether information was derived from administrative records, surveys or other sources.

**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.

Zimbabwe

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. Estimates from 1998 onward are based on survey data. For other years the estimates are derived from the WHO/UNICEF estimates 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	64						
1982	71						
1983	77						
1984	82						
1985	84						
1986	91						
1987	94					94	
1988	95						
1989	95						
1990	96					92	
1991	95						
1992	95						
1993	95					94	93
1994	95						
1995	96						
1996	96					94	
1997	95						
1998	88					88	88
1999	86						
2000	85	90	90	90	26		
2001	83	20	20	20	17		
2002	82	62	62		62		
2003	80	85	85	85	78		
2004	79	90	90	90	103		
2005	77	95	95	95	104	77	75
2006	77	95	95	95	96		
2007	77	90	90	90	88		
2008	77						

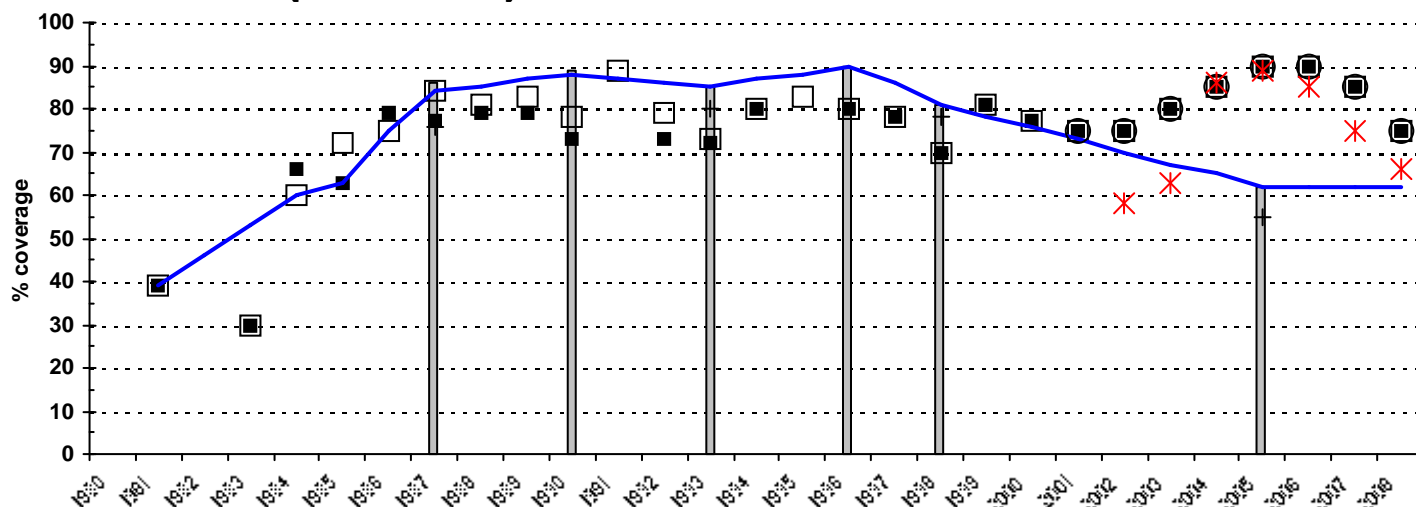
*Prior to 1998 national reports to WHO/UNICEF did not specify whether information was derived from administrative records, surveys or other sources.

**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.

Zimbabwe

DTP3 (1980-2008)



Description of trend

Estimates from 1987 onward are based on survey results. The Zimbabwe National Nutrition and EPI Survey 2003 does not report DTP3 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							
1981	39	39	39				
1982	46						
1983	53	30	30				
1984	60	60	66				
1985	63	72	63				
1986	75	75	79				
1987	84	84	77			86	76
1988	85	81	79				
1989	87	83	79				
1990	88	78	73			89	
1991	87	89					
1992	86	79	73				
1993	85	73	72			85	80
1994	87	80	80				
1995	88	83					
1996	90	80	80			90	
1997	86	78	78				
1998	81	70	70			81	78
1999	78	81	81				
2000	76	77	77				
2001	73	75	75	75			
2002	70	75	75	75	58		
2003	67	80	80	80	63		
2004	65	85	85	85	86		
2005	62	90	90	90	89	62	55
2006	62	90	90	90	85		
2007	62	85	85	85	75		
2008	62	75	75	75	66		

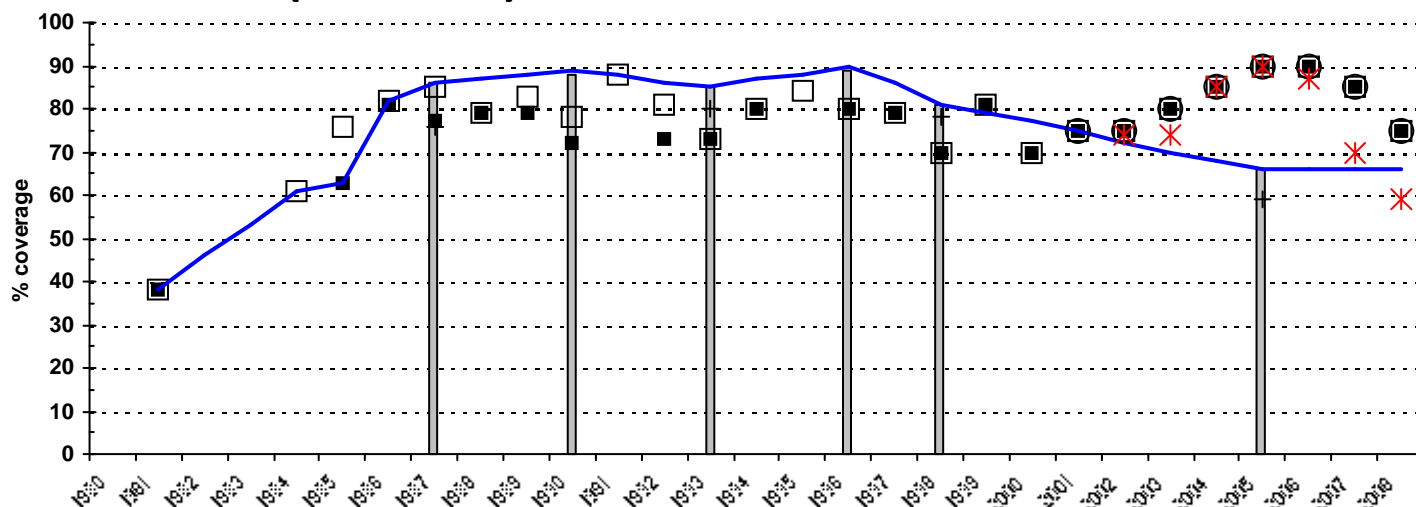
*Prior to 1998 national reports to WHO/UNICEF did not specify whether information was derived from administrative records, surveys or other sources.

**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.

Zimbabwe

Pol3 (1980-2008)



Description of trend

Estimates from 1987 onward are based on 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	38	38	38				
1982	46						
1983	53						
1984	61	61					
1985	63	76	63				
1986	82	82	81				
1987	86	85	77			86	76
1988	87	79	79				
1989	88	83	79				
1990	89	78	72			88	
1991	88	88					
1992	86	81	73				
1993	85	73	73			85	80
1994	87	80	80				
1995	88	84					
1996	90	80	80			89	
1997	86	79	79				
1998	81	70	70			81	78
1999	79	81	81				
2000	77	70	70				
2001	75	75	75	75			
2002	72	75	75	75	74		
2003	70	80	80	80	74		
2004	68	85	85	85	85		
2005	66	90	90	90	90	66	59
2006	66	90	90	90	87		
2007	66	85	85	85	70		
2008	66	75	75	75	59		

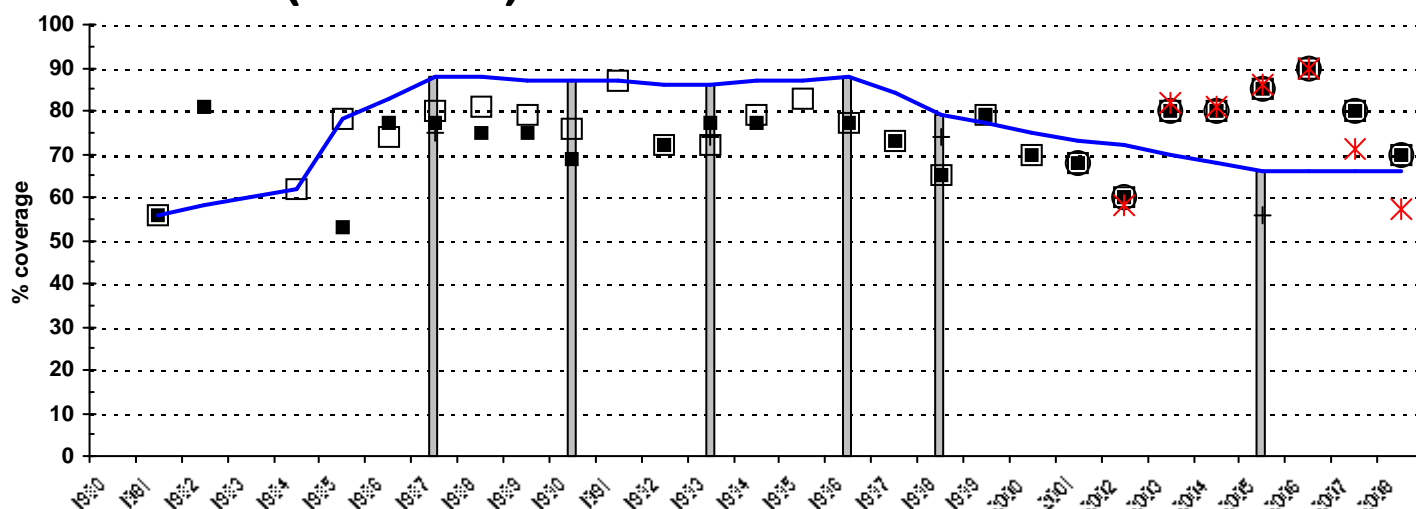
*Prior to 1998 national reports to WHO/UNICEF did not specify whether information was derived from administrative records, surveys or other sources.

**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.

Zimbabwe

MCV (1980-2008)



Description of trend

Estimates from 1987 onward are based on 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	56	56	56				
1982	58		81				
1983	60						
1984	62	62					
1985	78	74	53				
1986	83	74	77				
1987	88	80	77			88	75
1988	88	81	75				
1989	87	79	75				
1990	87	76	69			87	
1991	87	87					
1992	86	72	72				
1993	86	72	77			86	74
1994	87	79	77				
1995	87	83					
1996	88	77	77			88	
1997	84	73	73				
1998	79	65	65			79	74
1999	77	79	79				
2000	75	70	70				
2001	73	68	68	68			
2002	72	60	60	60	58		
2003	70	80	80	80	82		
2004	68	80	80	80	81		
2005	66	85	85	85	86	66	56
2006	66	90	90	90	90		
2007	66	80	80	80	71		
2008	66	70	70	70	57		

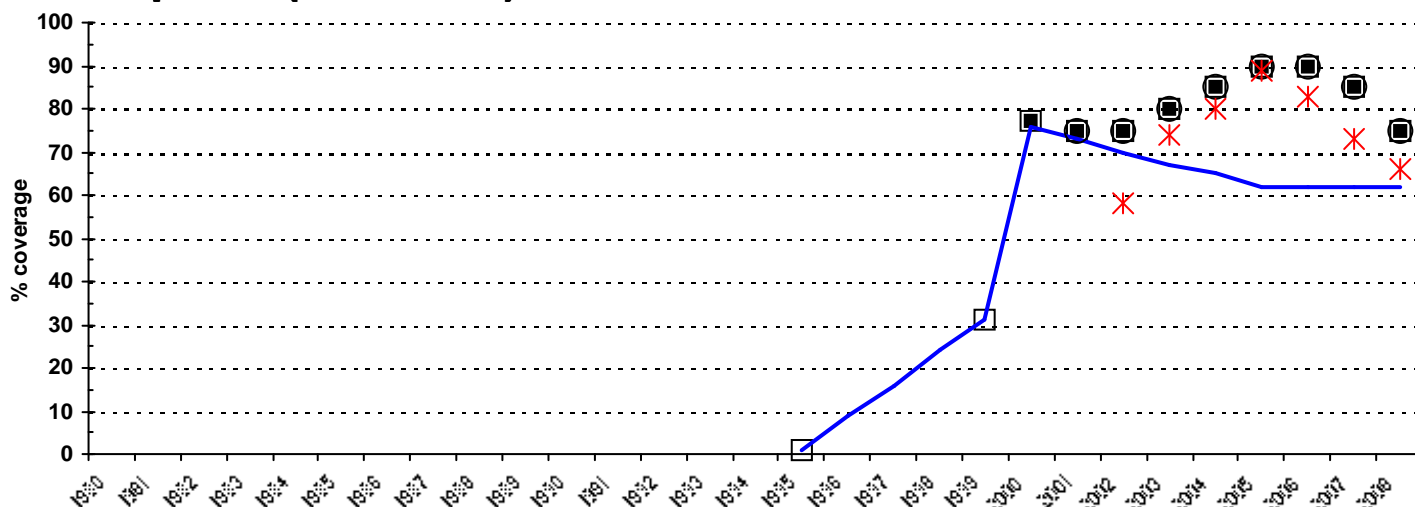
*Prior to 1998 national reports to WHO/UNICEF did not specify whether information was derived from administrative records, surveys or other sources.

**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.

Zimbabwe

HepB3 (1980-2008)



Description of trend

The Hepatitis vaccine was first introduced in 1994. Estimates from 1995-2000 are based on the country's national estimate. Estimates from 2001 onward are derived from DTP3 coverage estimates based on surveys. DTP-HepB-Hib pentavalent combination introduced in 2008.

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	1	1					
1996	9						
1997	16						
1998	24						
1999	31	31					
2000	76	77	77				
2001	73	75	75	75			
2002	70	75	75	75	58		
2003	67	80	80	80	74		
2004	65	85	85	85	80		
2005	62	90	90	90	89		
2006	62	90	90	90	83		
2007	62	85	85	85	73		
2008	62	75	75	75	66		

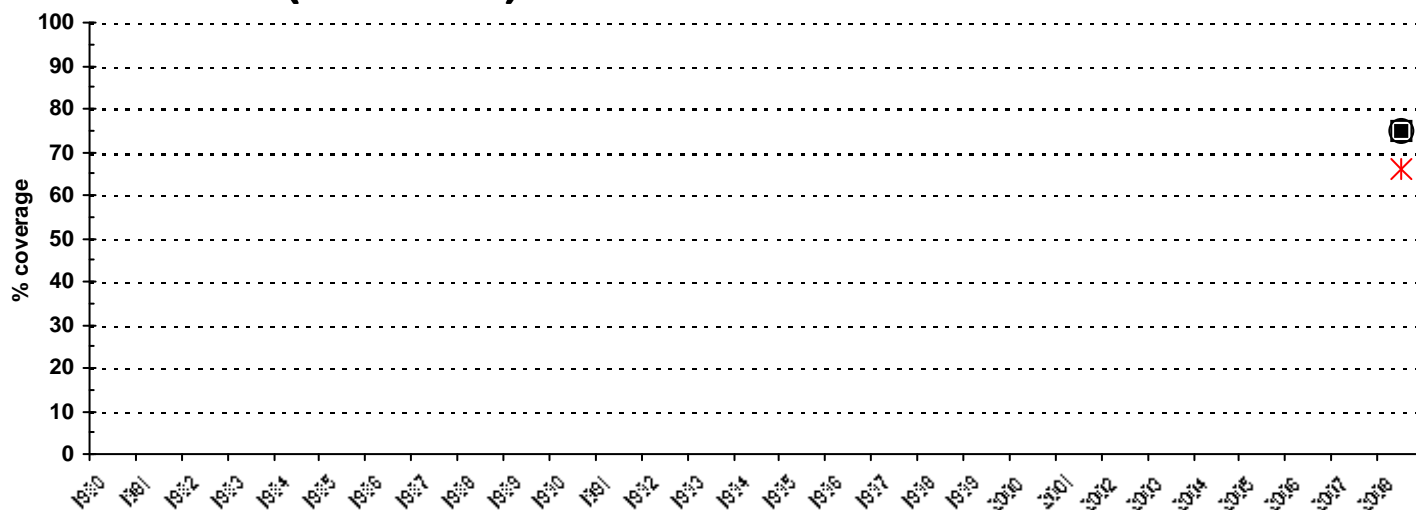
*Prior to 1998 national reports to WHO/UNICEF did not specify whether information was derived from administrative records, surveys or other sources.

**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.

Zimbabwe

Hib3 (1980-2008)



Description of trend

DTP-HepB-Hib pentavalent combination introduced in 2008.

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	62	75	75	75	66		

*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.

Zimbabwe

Details Survey Data

Year Source

Antigen	Confirmation method	% coverage	Compliance with schedule	Age group	Sample size	% cards seen	Survey year	Comments
2005 Zimbabwe Demographic and Health 2005-2006								
BCG	Card or History	75.7		12-23 m	1019	72.3	2005	
BCG	C or H <12 month	74.9		12-23 m	1019	72.3	2005	
DTP1	Card or History	76.9		12-23 m	1019	72.3	2005	
DTP1	C or H <12 month	75.3		12-23 m	1019	72.3	2005	
DTP3	Card or History	62		12-23 m	1019	72.3	2005	
DTP3	C or H <12 month	55		12-23 m	1019	72.3	2005	
Pol3	Card or History	65.7		12-23 m	1019	72.3	2005	
Pol3	C or H <12 month	59.1		12-23 m	1019	72.3	2005	
MCV	Card or History	65.6		12-23 m	1019	72.3	2005	
MCV	C or H <12 month	55.9		12-23 m	1019	72.3	2005	
PAB	n.a.	57.6		CBAW	4099	72.3	2005	

1998 Zimbabwe Demographic and Health Survey 1999, 2000

BCG	Card or History	88.1		12-23 m	699	68.6	1999	
BCG	C or H <12 month	87.4		12-23 m	699	68.6	1999	
BCG	C or H <12 month	88.8		24-35 m	669	60.9	1999	
BCG	C or H <12 month	85.6		36-47 m	629	54.2	1999	
BCG	C or H <12 month	88		48-59 m	611	55.2	1999	
DTP1	Card or History	87.5		12-23 m	699	68.6	1999	
DTP1	C or H <12 month	87.5		12-23 m	699	68.6	1999	
DTP1	C or H <12 month	88.4		24-35 m	669	60.9	1999	
DTP1	C or H <12 month	85.3		36-47 m	629	54.2	1999	
DTP1	C or H <12 month	87.1		48-59 m	611	55.2	1999	
DTP3	Card or History	80.9		12-23 m	699	68.6	1999	
DTP3	C or H <12 month	77.5		12-23 m	699	68.6	1999	
DTP3	C or H <12 month	76.3		24-35 m	669	60.9	1999	
DTP3	C or H <12 month	71.7		36-47 m	629	54.2	1999	
DTP3	C or H <12 month	73.1		48-59 m	611	55.2	1999	
Pol3	Card or History	80.7		12-23 m	699	68.6	1999	
Pol3	C or H <12 month	77.6		12-23 m	699	68.6	1999	
Pol3	C or H <12 month	76.9		24-35 m	669	60.9	1999	
Pol3	C or H <12 month	72.5		36-47 m	629	54.2	1999	
Pol3	C or H <12 month	72.9		48-59 m	611	55.2	1999	
MCV	Card or History	79.1		12-23 m	699	68.6	1999	
MCV	C or H <12 month	71.4		12-23 m	699	68.6	1999	
MCV	C or H <12 month	73.6		24-35 m	669	60.9	1999	
MCV	C or H <12 month	72.8		36-47 m	629	54.2	1999	
MCV	C or H <12 month	67.7		48-59 m	611	55.2	1999	

1996 Zimbabwe National Maternal and Child Health Family Planning Survey 1997, 1998

BCG	Card or History	96		12-23 m	6168	94.5	1997	national weighted average by district, different coverage rate by province: 95.8 %
DTP1	Card or History	94.4		12-23 m	6168	94.5	1997	
DTP3	Card or History	89.6		12-23 m	6168	94.5	1997	
Pol3	Card or History	89.3		12-23 m	6168	94.5	1997	
MCV	Card or History	88.2		12-23 m	6168	94.5	1997	
PAB	Card or History	49.8		Women 15-49			1997	

1993 Zimbabwe Demographic and Health Survey 1994, 1995

BCG	Card or History	95.7		12-23 m	691	79.1	1994	
BCG	C or H <12 month	94.6		12-23 m	691	79.1	1994	

Zimbabwe

Details Survey Data

Year Source

Antigen	Confirmation method	% coverage	Compliance with schedule	Age group	Sample size	% cards seen	Survey year	Comments
DTP1	Card or History	94.2		12-23 m	691	79.1	1994	
DTP1	C or H <12 month	93.1		12-23 m	691	79.1	1994	
DTP3	Card or History	85.2		12-23 m	691	79.1	1994	
DTP3	C or H <12 month	80.4		12-23 m	691	79.1	1994	
Pol3	Card or History	85.4		12-23 m	691	79.1	1994	
Pol3	C or H <12 month	80.3		12-23 m	691	79.1	1994	
MCV	Card or History	86.3		12-23 m	691	79.1	1994	
MCV	C or H <12 month	73.9		12-23 m	691	79.1	1994	

1990 Zimbabwe National Maternal and Child Health Family Planning Survey 1997, 1998

BCG	Card or History	91.4		12-23 m	2321		1991	
DTP1	Card or History	91.7		12-23 m	2321		1991	
DTP3	Card or History	88.6		12-23 m	2321		1991	
Pol3	Card or History	88.4		12-23 m	2321		1991	
MCV	Card or History	86.8		12-23 m	2321		1991	

1987 Demographic and Health Surveys Comparative Studies No. 1, Immunization, Boerma et al., Institute for Resource Development/Macro Systems, 1990

BCG	Card or History	94		12-23 m	629		1988	
BCG	C or H <12 month	91		12-23 m	629		1988	
DTP1	Card or History	94		12-23 m	629		1988	
DTP1	C or H <12 month			12-23 m	629		1988	
DTP3	Card or History	86		12-23 m	629		1988	
DTP3	C or H <12 month	76		12-23 m	629		1988	
Pol3	Card or History	86		12-23 m	629		1988	
Pol3	C or H <12 month	76		12-23 m	629		1988	
MCV	Card or History	88		12-23 m	629		1988	
MCV	C or H <12 month	75		12-23 m	629		1988	

1987 Zimbabwe National Maternal and Child Health Family Planning Survey 1997, 1998

BCG	Card or History	89		12-23 m	6168		1988	
DTP1	Card or History	87.4		12-23 m	6168		1988	
DTP3	Card or History	79		12-23 m	6168		1988	
Pol3	Card or History	78.8		12-23 m	6168		1988	
MCV	Card or History	74.3		12-23 m	6168		1988	

Zimbabwe

WHO/UNICEF Estimates of Protection at Birth (PAB) against tetanus

In countries where tetanus is recommended for girls and women coverage is usually reported as "TT2+", i.e. the proportion of (pregnant) women who have received their second or superior TT dose in a given year. TT2 + coverage, however, can under-represent the actual proportion of births that are protected against tetanus as it does not include women who have previously received protective doses, women who received one dose without documentation of previous doses, and women who received doses in TT (or Td) supplemental immunization activities (SIA). In addition, girls who have received DTP in their childhood and are entering childbearing age, may be protected with TT booster doses.

WHO and UNICEF have developed a model that takes into account the above scenarios, and calculates the proportion of births in a given year that can be considered as having been protected against tetanus - "Protection at Birth".

In this model, annual cohorts of women are followed from infancy through their life. A proportion receive DTP in infancy (estimated based on the WHO-UNICEF estimates of DTP3 coverage). In addition some of these women also receive TT through routine services when they are pregnant and may also receive TT during SIAs. The model also adjusts reported data, taking into account coverage patterns in other years, and/or results available through surveys. The duration of protection is then calculated, based on WHO estimates of the duration of protection by doses ever received. The proportion of births that are protected against tetanus as a result of maternal immunization reflects the tetanus immunization received by the mother throughout her life rather than simply the TT immunizations received during the current pregnancy.

¹ This model is described in: Griffiths U., Wolfson L., Quddus A., Younus M., Hafiz R.. Incremental cost-effectiveness of supplementary immunization activities to prevent neo-natal tetanus in Pakistan. Bulletin of the World Health Organization 2004; 82:643-651.

Zimbabwe

Year	PAB coverage estimate (%)
1980	
1981	
1982	
1983	
1984	31
1985	44
1986	56
1987	55
1988	54
1989	54
1990	57
1991	60
1992	65
1993	68
1994	69
1995	42
1996	75
1997	78
1998	74
1999	75
2000	76
2001	77
2002	78
2003	78
2004	79
2005	77
2006	78
2007	78
2008	76