

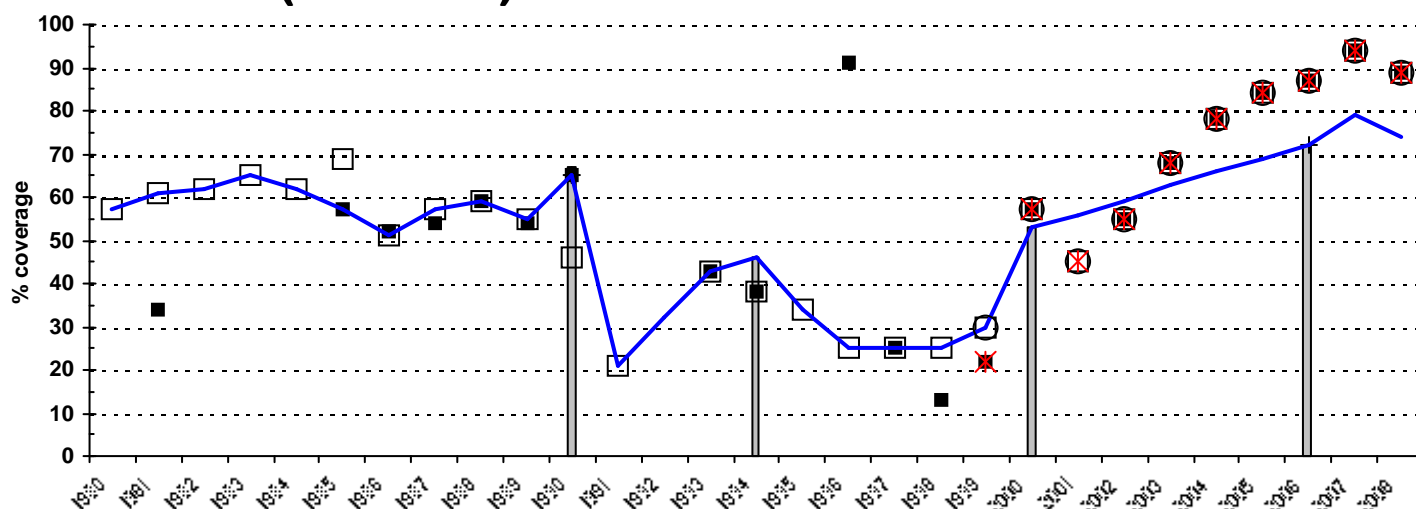
**WHO/UNICEF
Review of National Immunization Coverage
1980-2008**

Democratic Republic of the Congo

July, 2009

Democratic Republic of the Congo

BCG (1980-2008)



Description of trend

Estimated immunization coverage levels are based on reported data, supported by survey results. Estimates from 2000 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	57	57					
1981	61	61	34				
1982	62	62					
1983	65	65					
1984	62	62					
1985	57	69	57				
1986	51	51	52				
1987	57	57	54				
1988	59	59	59				
1989	55	55	54				
1990	65	46	65			67	65
1991	21	21					
1992	32						
1993	43	43	43				
1994	46	38	38			46	
1995	34	34					
1996	25	25	91				
1997	25	25	25				
1998	25	25	13				
1999	30	30	22	30	22		
2000	53	57	57	57	57	53	
2001	56	45		45	45		
2002	59	55	55	55	55		
2003	63	68	68	68	68		
2004	66	78	78	78	78		
2005	69	84	84	84	84		
2006	72	87	87	87	87	72	72
2007	79	94	94	94	94		
2008	74	89	89	89	89		

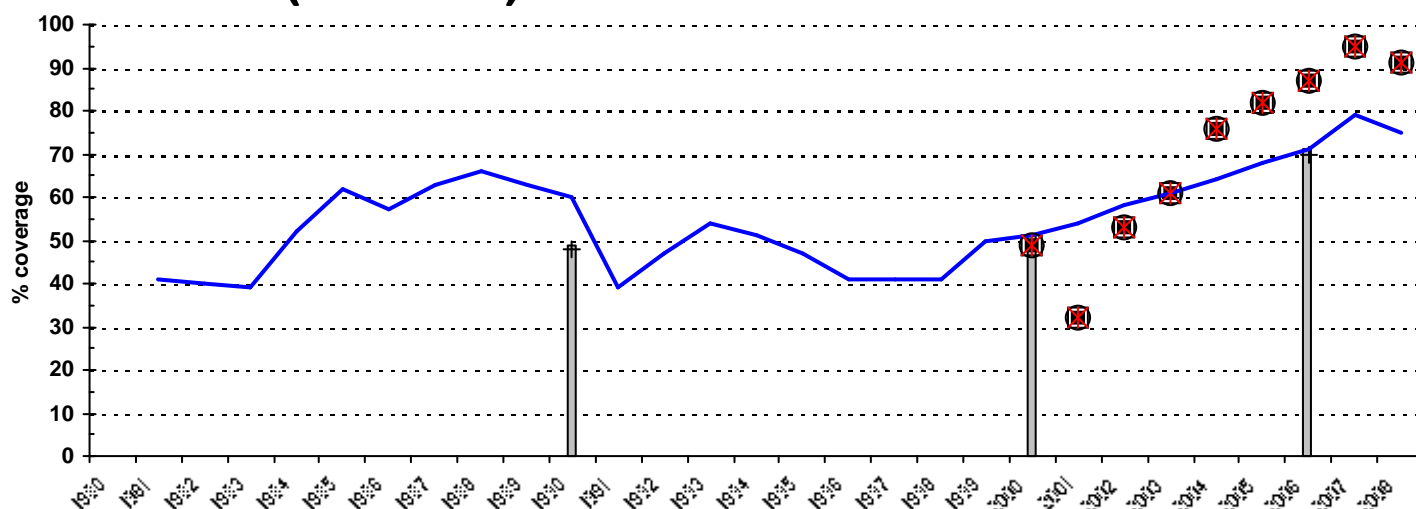
*Prior to 1998 national reports to WHO/UNICEF did not specify whether information was derived from administrative records, surveys or other sources.

**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.

Democratic Republic of the Congo

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. Note that the 2001 data suggests no drop-out. 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. Estimates from 2000 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	41						
1982	40						
1983	39						
1984	52						
1985	62						
1986	57						
1987	63						
1988	66						
1989	63						
1990	60					49	48
1991	39						
1992	47						
1993	54						
1994	51						
1995	47						
1996	41						
1997	41						
1998	41						
1999	50						
2000	51	49	49	49	49	51	
2001	54	32	32	32	32		
2002	58	53	53	53	53		
2003	61	61	61	61	61		
2004	64	76	76	76	76		
2005	68	82	82	82	82		
2006	71	87	87	87	87	71	70
2007	79	95	95	95	95		
2008	75	91	91	91	91		

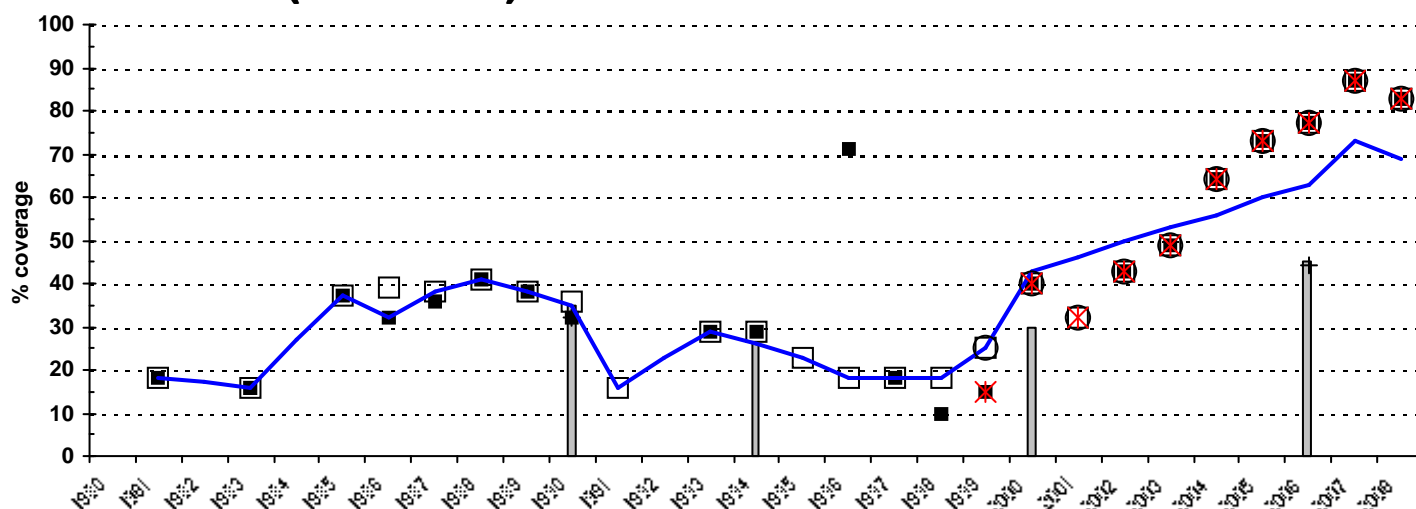
*Prior to 1998 national reports to WHO/UNICEF did not specify whether information was derived from administrative records, surveys or other sources.

**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.

Democratic Republic of the Congo

DTP3 (1980-2008)



Description of trend

Estimated immunization coverage levels are based on reported data, supported by survey results. Estimates from 2000 onward are based on survey results adjusted for recall bias.

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	18	18	18				
1982	17						
1983	16	16	16				
1984	27						
1985	37	37	37				
1986	32	39	32				
1987	38	38	36				
1988	41	41	41				
1989	38	38	38				
1990	35	36	32			35	32
1991	16	16					
1992	23						
1993	29	29	29				
1994	26	29	29			26	
1995	23	23					
1996	18	18	71				
1997	18	18	18				
1998	18	18	10				
1999	25	25	15	25	15		
2000	43	40	40	40	40	30	
2001	46	32		32	32		
2002	50	43	43	43	43		
2003	53	49	49	49	49		
2004	56	64	64	64	64		
2005	60	73	73	73	73		
2006	63	77	77	77	77	45	44
2007	73	87	87	87	87		
2008	69	83	83	83	83		

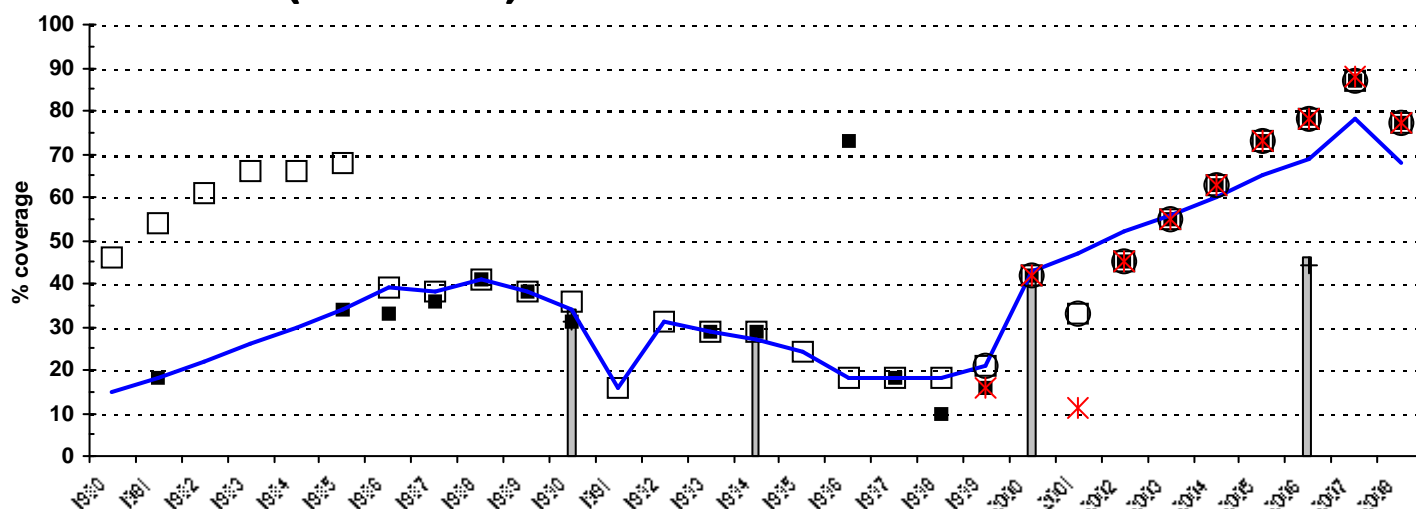
*Prior to 1998 national reports to WHO/UNICEF did not specify whether information was derived from administrative records, surveys or other sources.

**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.

Democratic Republic of the Congo

Pol3 (1980-2008)



Description of trend

Estimated immunization coverage levels are based on reported data, supported by survey results. Estimates from 2000 onward are based on results adjusted for recall bias.

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	15	46					
1981	18	54	18				
1982	22	61					
1983	26	66					
1984	30	66					
1985	34	68	34				
1986	39	39	33				
1987	38	38	36				
1988	41	41	41				
1989	38	38	38				
1990	34	36	31			34	31
1991	16	16					
1992	31	31					
1993	29	29	29				
1994	27	29	29			27	
1995	24	24					
1996	18	18	73				
1997	18	18	18				
1998	18	18	10				
1999	21	21	16	21	16		
2000	43	42	42	42	42	42	
2001	47	33		33	11		
2002	52	45	45	45	45		
2003	56	55	55	55	55		
2004	60	63	63	63	63		
2005	65	73	73	73	73		
2006	69	78	78	78	78	46	44
2007	78	87	87	87	88		
2008	68	77	77	77	77		

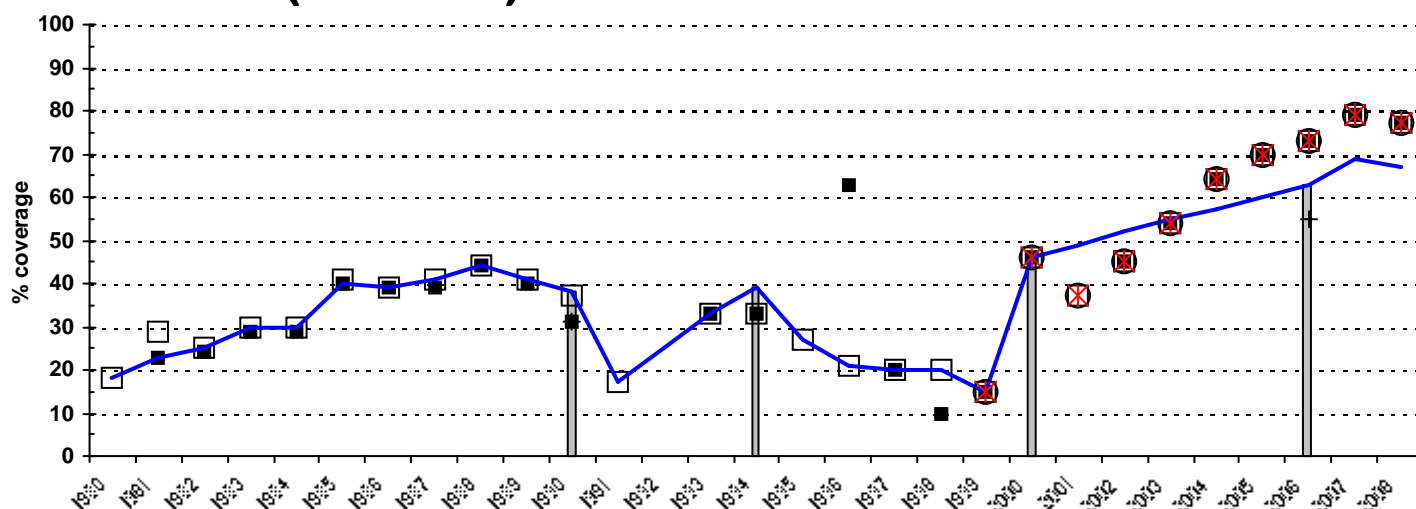
*Prior to 1998 national reports to WHO/UNICEF did not specify whether information was derived from administrative records, surveys or other sources.

**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.

Democratic Republic of the Congo

MCV (1980-2008)



Description of trend

Estimated immunization coverage levels are based on reported data, supported by survey results. Estimates from 2000 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	18	18					
1981	23	29	23				
1982	25	25	24				
1983	30	30	29				
1984	30	30	29				
1985	40	41	40				
1986	39	39	39				
1987	41	41	39				
1988	44	44	44				
1989	41	41	40				
1990	38	37	31			38	31
1991	17	17					
1992	25						
1993	33	33	33				
1994	39	33	33			39	
1995	27	27					
1996	21	21	63				
1997	20	20	20				
1998	20	20	10				
1999	15	15	15	15	15		
2000	46	46	46	46	46	46	
2001	49	37		37	37		
2002	45	45	45	45	45		
2003	55	54	54	54	54		
2004	57	64	64	64	64		
2005	60	70	70	70	70		
2006	63	73	73	73	73	63	55
2007	69	79	79	79	79		
2008	67	77	77	77	77		

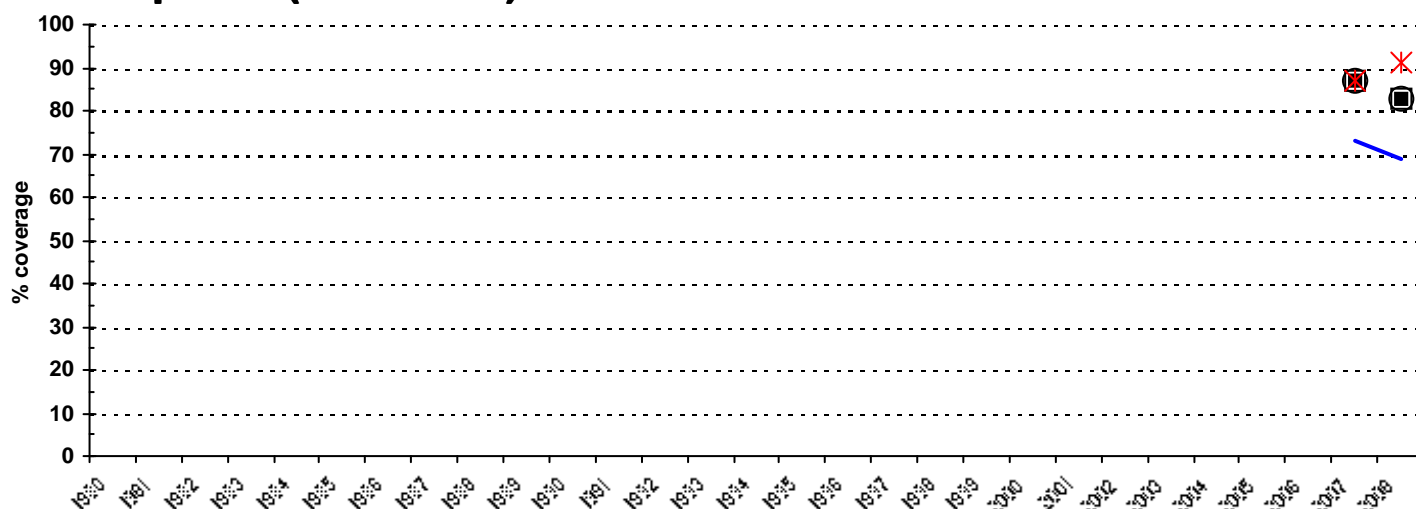
*Prior to 1998 national reports to WHO/UNICEF did not specify whether information was derived from administrative records, surveys or other sources.

**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.

Democratic Republic of the Congo

HepB3 (1980-2008)



Description of trend

DTP-HepB tetravalent vaccine introduced February 2007. Estimates are based on DTP3 survey results adjusted for recall bias.

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	73	87	87	87	87		
2008	69	83	83	83	91		

*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.

Democratic Republic of the Congo

Details Survey Data

Year Source

Antigen	Confirmation method	% coverage	Compliance with schedule	Age group	Sample size	% cards seen	Survey year	Comments
2006 Enquête Démographique et de Santé République Démocratique du Congo 2007								
BCG	Card or History	71.7		12-23 m	1585	24.3	2007	
BCG	C or H <12 month	71.6		12-23 m	1585	24.3	2007	
DTP1	Card or History	70.6		12-23 m	1585	24.3	2007	
DTP1	C or H <12 month	69.6		12-23 m	1585	24.3	2007	
DTP3	Card or History	45		12-23 m	1585	24.3	2007	
DTP3	C or H <12 month	43.8		12-23 m	1585	24.3	2007	
Pol3	Card or History	45.7		12-23 m	1585	24.3	2007	
Pol3	C or H <12 month	43.9		12-23 m	1585	24.3	2007	
MCV	Card or History	62.9		12-23 m	1585	24.3	2007	
MCV	C or H <12 month	54.9		12-23 m	1585	24.3	2007	
2000 DR Congo MICS 2001								
BCG	Card or History	53.1		12-23 m	2690	22.1	2001	
DTP1	Card or History	51.2		12-23 m	2690	22.1	2001	
DTP3	Card or History	29.9		12-23 m	2690	22.1	2001	
Pol3	Card or History	41.5		12-23 m	2690	22.1	2001	
MCV	Card or History	46.4		12-23 m	2690	22.1	2001	
1994 Enquête Nationale sur la Situation des Enfants et des Femmes au Zaire en 1995								
BCG	Card or History	46		12-23 m	1034	29.6	1995	Confirmation method assumed
DTP1	Card or History			12-23 m	1034	29.6	1995	Confirmation method assumed
DTP3	Card or History	26		12-23 m	1034	29.6	1995	Confirmation method assumed
Pol3	Card or History	27		12-23 m	1034	29.6	1995	Confirmation method assumed
MCV	Card or History	39		12-23 m	1034	29.6	1995	Confirmation method assumed
1990 Zaire, Evaluation de la Couverture Vaccinale 1991								
BCG	Card or History	67		12-23 m	2343		1991	Confirmation method assumed
BCG	C or H <12 month	65		12-23 m	2343		1991	Confirmation method assumed
DTP1	Card or History	49		12-23 m	2343		1991	Confirmation method assumed
DTP1	C or H <12 month	48		12-23 m	2343		1991	Confirmation method assumed
DTP3	Card or History	35		12-23 m	2343		1991	Confirmation method assumed
DTP3	C or H <12 month	32		12-23 m	2343		1991	Confirmation method assumed
Pol3	Card or History	34		12-23 m	2343		1991	Confirmation method assumed
Pol3	C or H <12 month	31		12-23 m	2343		1991	Confirmation method assumed
MCV	Card or History	38		12-23 m	2343		1991	Confirmation method assumed
MCV	C or H <12 month	31		12-23 m	2343		1991	Confirmation method assumed

Democratic Republic of the Congo

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.

Democratic Republic of the Congo

Year	PAB coverage estimate (%)
1980	
1981	
1982	
1983	
1984	25
1985	37
1986	37
1987	36
1988	51
1989	52
1990	53
1991	35
1992	38
1993	43
1994	52
1995	42
1996	43
1997	33
1998	50
1999	33
2000	45
2001	43
2002	61
2003	66
2004	67
2005	67
2006	66
2007	70
2008	75