

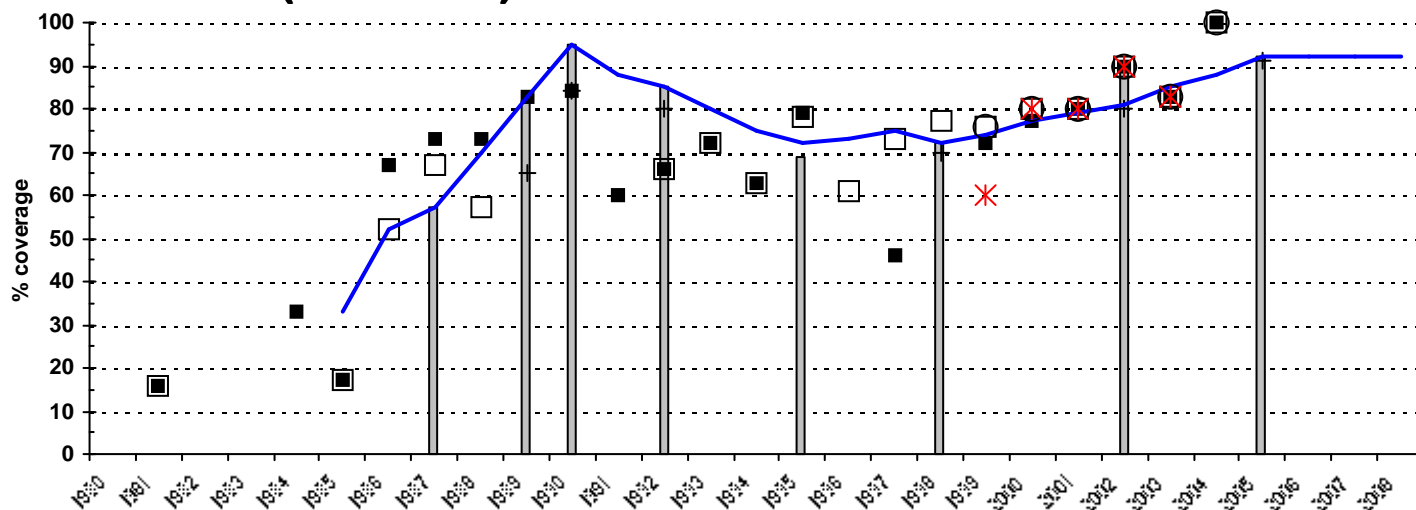
**WHO/UNICEF
Review of National Immunization Coverage
1980-2008**

Burkina Faso

July, 2009

Burkina Faso

BCG (1980-2008)



Description of trend

The EPI programme expanded to the entire country in 1985. Coverage is estimated to be around 30% in 1985, rapidly increasing due to the African Immunization Days in 1986/87 and accelerated activities to reach the UCI-goal. Estimates are based on survey data (2002 on DHS).

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		16	16				
1982							
1983							
1984			33				
1985	33	17	17				
1986	52	52	67				
1987	57	67	73			57	
1988	70	57	73				
1989	83		83			82	65
1990	95		84			95	84
1991	88		60				
1992	85	66	66			85	80
1993	80	72	72				
1994	75	63	63				
1995	72	78	79			69	
1996	73	61					
1997	75	73	46				
1998	72	77				72	70
1999	74	76	72	76	60		
2000	77	80	77	80	80		
2001	79	80	80	80	80		
2002	81	90	90	90	90	90	80
2003	85	83	83	83	83		
2004	88	100	100	100	101		
2005	92	102	102	102	102	92	91
2006	92	103	103	103	103		
2007	92	108	108	108	108		
2008	92	109	109	109	109		

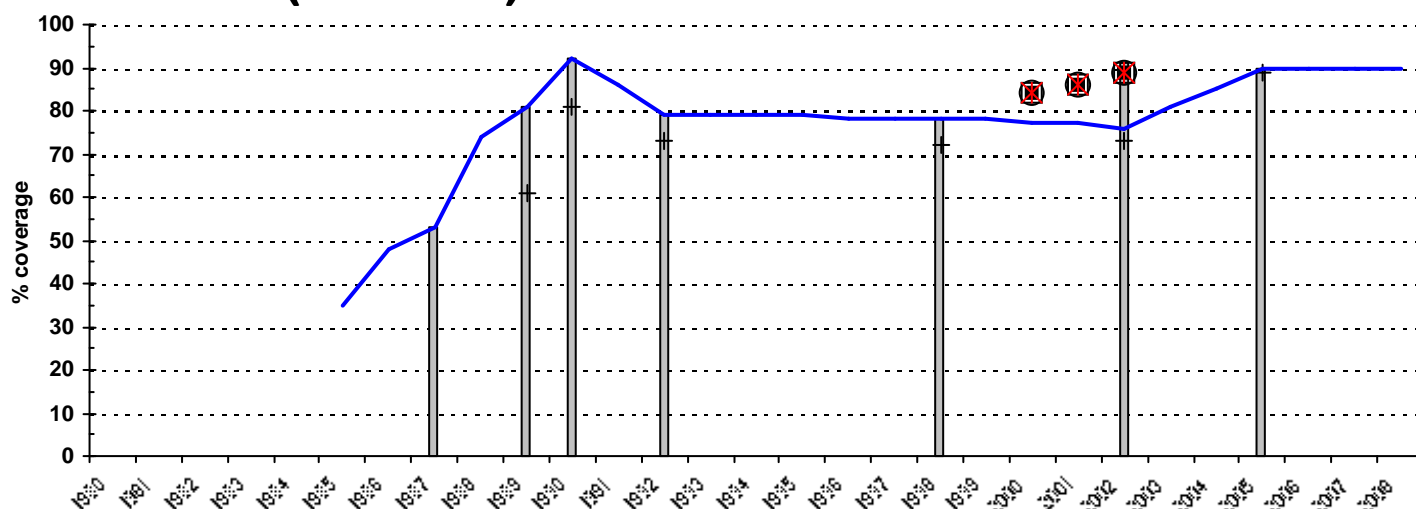
*Prior to 1998 national reports to WHO/UNICEF did not specify whether information was derived from administrative records, surveys or other sources.

**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.

Burkina Faso

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 1985 to 1998 are based on survey data. The 1999 estimate is 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. Estimates from 2000 onward are based on survey results (2002 on DHS).

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	35						
1986	48						
1987	53					53	
1988	74						
1989	81					81	61
1990	92					92	81
1991	86						
1992	79					79	73
1993	79						
1994	79						
1995	79						
1996	78						
1997	78						
1998	78					78	72
1999	78						
2000	77	84	84	84	84		
2001	77	86	86	86	86		
2002	76	89	89	89	89	91	73
2003	81	104	104	104	104		
2004	85	101	101	101	101		
2005	90	105	105	105	105	90	89
2006	90	102	102	102	102		
2007	90	109	109	109	109		
2008	90	111	111	111	111		

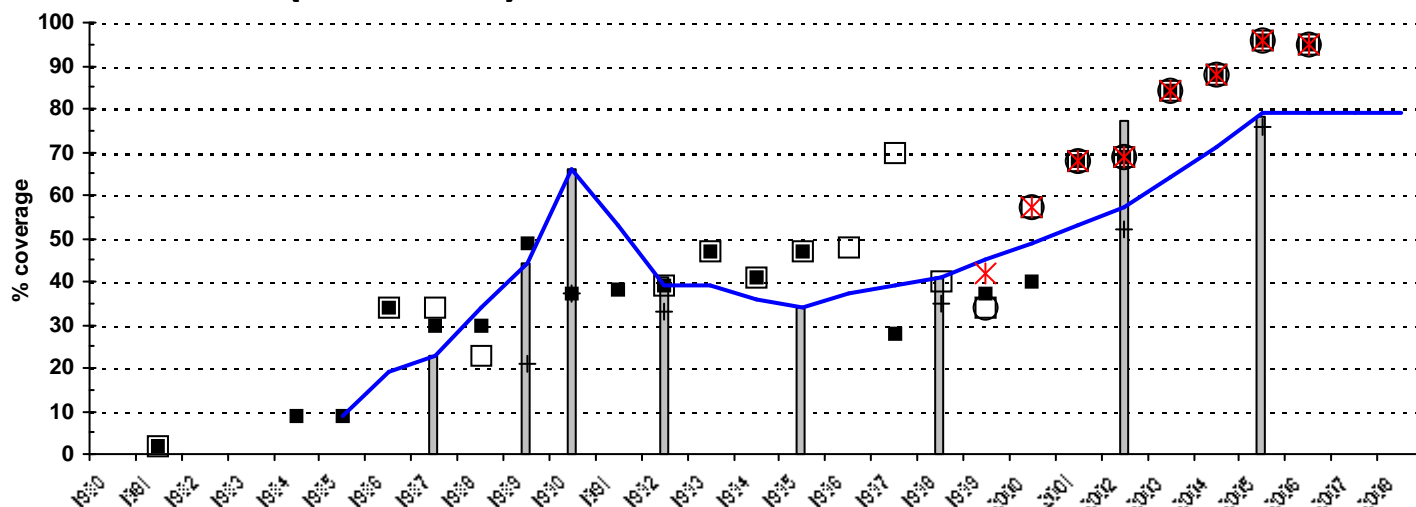
*Prior to 1998 national reports to WHO/UNICEF did not specify whether information was derived from administrative records, surveys or other sources.

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

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Burkina Faso

DTP3 (1980-2008)



Description of trend

African Immunization Days in 1986/1987 and accelerated activities to reach the UCI-goal lead to an increase in coverage in the mid 1980s. Estimates are based on survey data (2002 on DHS).

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		2	2				
1982							
1983							
1984			9				
1985	9		9				
1986	19	34	34				
1987	23	34	30			23	
1988	34	23	30				
1989	44		49			44	21
1990	66		37			66	37
1991	53		38				
1992	39	39	39			41	33
1993	39	47	47				
1994	36	41	41				
1995	34	47	47			34	
1996	37	48					
1997	39	70	28				
1998	41	40				41	35
1999	45	34	37	34	42		
2000	49	57	40	57	57		
2001	53	68	68	68	68		
2002	57	69	69	69	69	77	52
2003	64	84	84	84	84		
2004	71	88	88	88	88		
2005	79	96	96	96	96	78	76
2006	79	95	95	95	95		
2007	79	102	102	102	102		
2008	79	107	107	107	107		

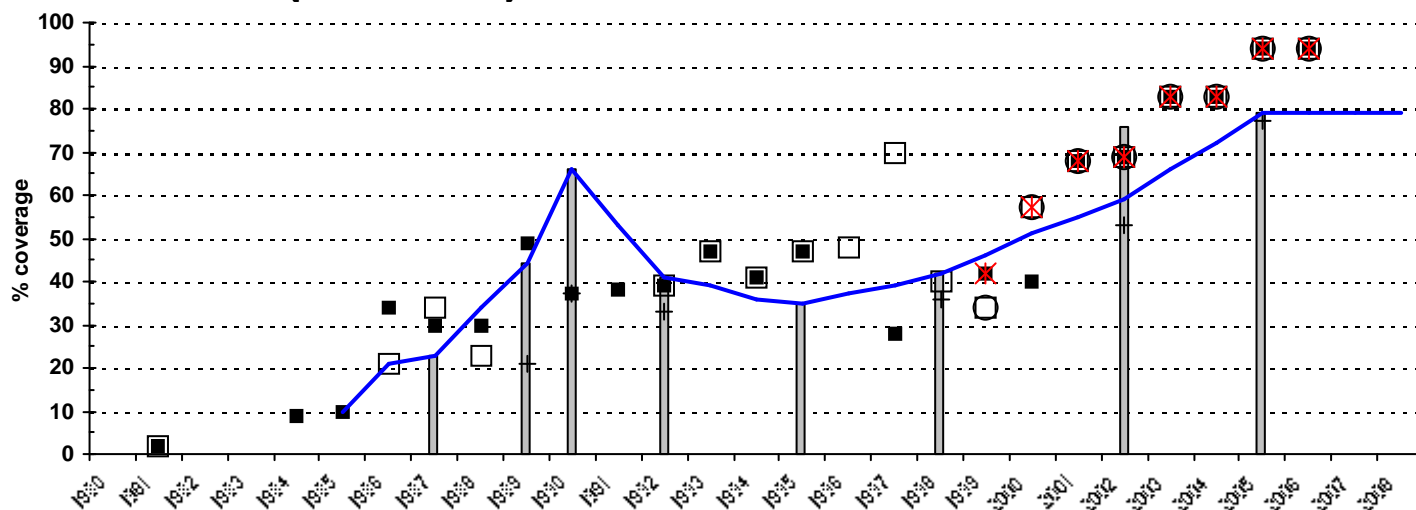
*Prior to 1998 national reports to WHO/UNICEF did not specify whether information was derived from administrative records, surveys or other sources.

**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.

Burkina Faso

Pol3 (1980-2008)



Description of trend

Trend follows survey data as officially reported data shows fluctuating coverage rates. African Immunization Days in 1986/1987 and accelerated activities to reach the UCI-goal lead to an increase in coverage in the mid 1980s. Estimates are based on survey data (2002 on DHS).

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		2	2				
1982							
1983							
1984			9				
1985	10		10				
1986	21	21	34				
1987	23	34	30			23	
1988	34	23	30				
1989	44		49			44	21
1990	66		37			66	37
1991	53		38				
1992	41	39	39			41	33
1993	39	47	47				
1994	36	41	41				
1995	35	47	47			35	
1996	37	48					
1997	39	70	28				
1998	42	40				42	36
1999	46	34	42	34	42		
2000	51	57	40	57	57		
2001	55	68	68	68	68		
2002	59	69	69	69	69	76	53
2003	66	83	83	83	83		
2004	72	83	83	83	83		
2005	79	94	94	94	94	79	77
2006	79	94	94	94	94		
2007	79	102	102	102	102		
2008	79	107	107	107	107		

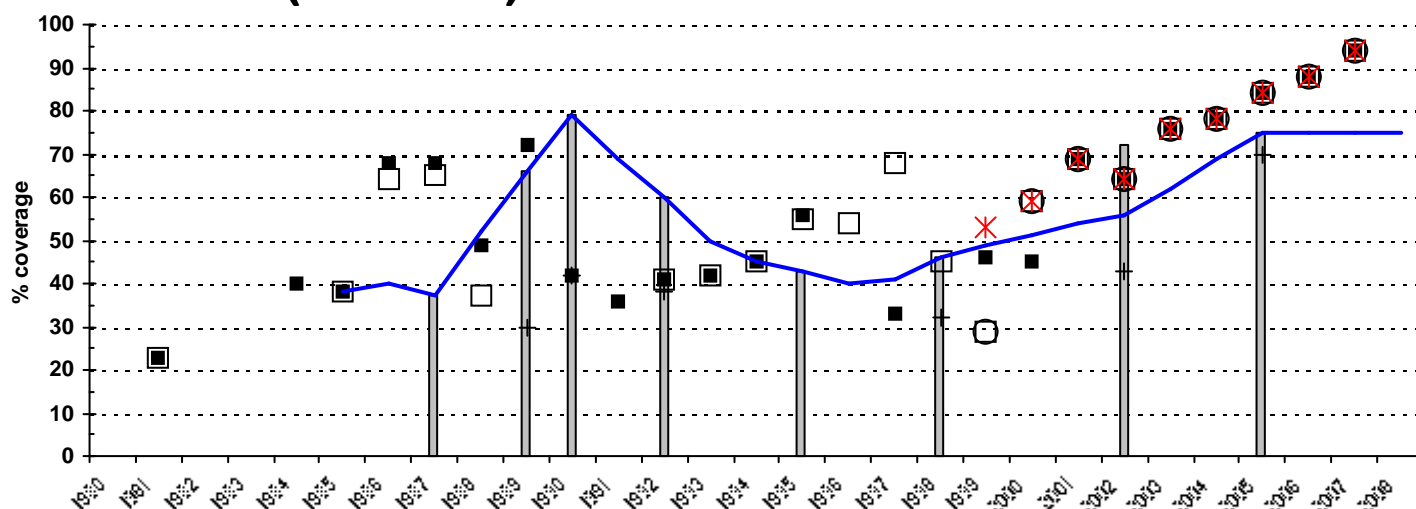
*Prior to 1998 national reports to WHO/UNICEF did not specify whether information was derived from administrative records, surveys or other sources.

**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.

Burkina Faso

MCV (1980-2008)



Description of trend

Trend follows survey data as officially reported data shows fluctuating coverage rates. African Immunization Days in 1986/1987 and accelerated activities to reach the UCI-goal lead to an increase in coverage in the mid 1980s. Estimates are based on survey data (2002 on DHS).

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		23	23				
1982							
1983							
1984			40				
1985	38	38	38				
1986	40	64	68				
1987	37	65	68			37	
1988	52	37	49				
1989	66		72			66	30
1990	79		42			79	42
1991	69		36				
1992	60	41	41			60	38
1993	50	42	42				
1994	45	45	45				
1995	43	55	56			43	
1996	40	54					
1997	41	68	33				
1998	46	45				46	32
1999	49	29	46	29	53		
2000	51	59	45	59	59		
2001	54	69	69	69	69		
2002	56	64	64	64	64	72	43
2003	62	76	76	76	76		
2004	69	78	78	78	78		
2005	75	84	84	84	84	75	70
2006	75	88	88	88	88		
2007	75	94	94	94	94		
2008	75	101	101	101	101		

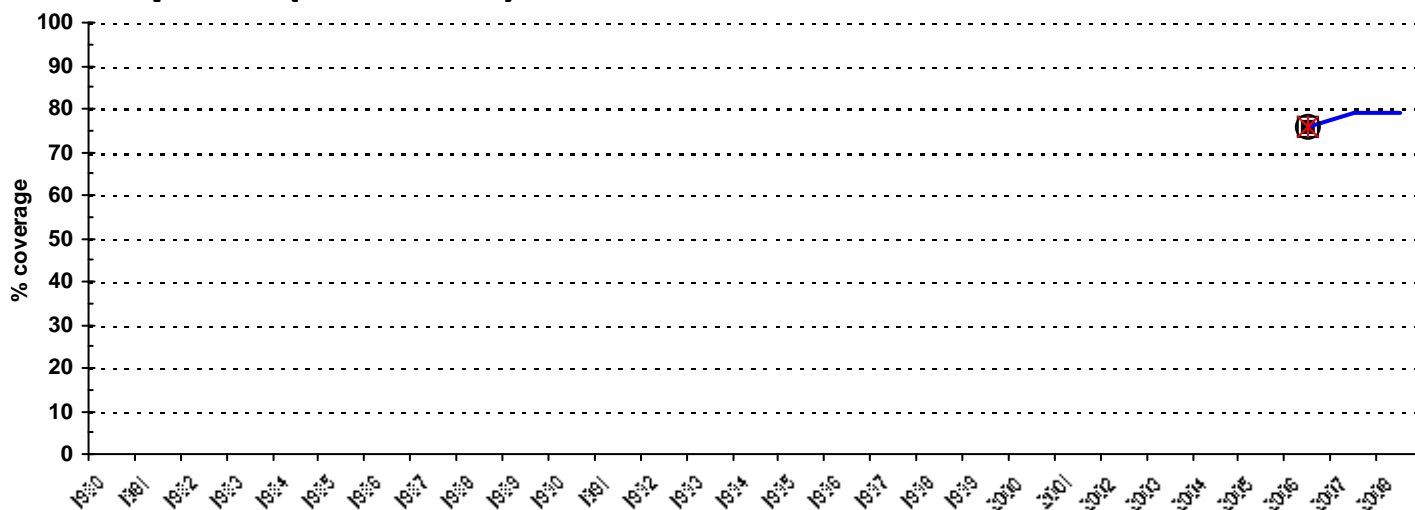
*Prior to 1998 national reports to WHO/UNICEF did not specify whether information was derived from administrative records, surveys or other sources.

**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.

Burkina Faso

HepB3 (1980-2008)



Description of trend

Pentavalent vaccine (DTP-HepB-Hib) introduced in 2006. 2006 estimates are based on reported data; estimates from 2007 are based on DT estimates.

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	76	76	76	76	76		
2007	79	102	102	102	102		
2008	79	107	107	107	107		

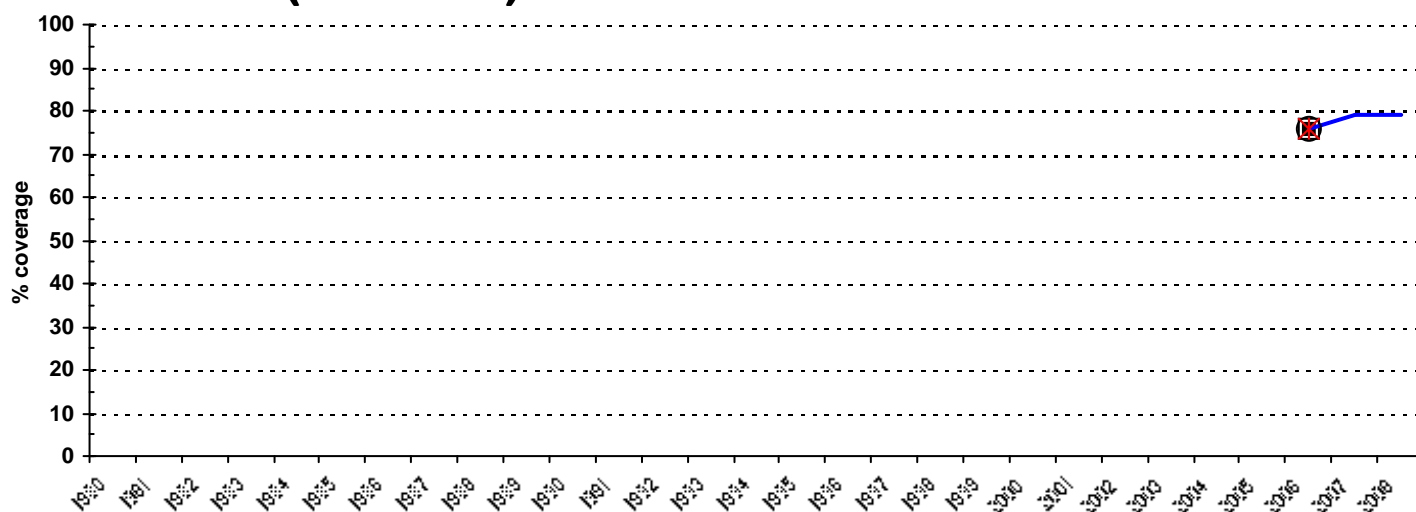
*Prior to 1998 national reports to WHO/UNICEF did not specify whether information was derived from administrative records, surveys or other sources.

**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.

Burkina Faso

Hib3 (1980-2008)



Description of trend

Pentavalent vaccine (DTP-HepB-Hib) introduced in 2006. 2006 estimates are based on reported data; estimates from 2007 are based on DTI estimates.

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	76	76	76	76	76		
2007	79	102	102	102	102		
2008	79	107	107	107	107		

*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.

Burkina Faso

Details Survey Data

Year Source

Antigen	Confirmation method	% coverage	Compliance with schedule	Age group	Sample size	% cards seen	Survey year	Comments
2005 Burkina Faso, Enquête par grappes à indicateurs multiples 2006								
BCG	Card or History	91.9		12-23 m	1112	79	2006	
BCG	C or H <12 month	91.4		12-23 m	1112	79	2006	
DTP1	Card or History	90.2		12-23 m	1112	79	2006	
DTP1	C or H <12 month	89.3		12-23 m	1112	79	2006	
DTP3	Card or History	78.5		12-23 m	1112	79	2006	
DTP3	C or H <12 month	76.5		12-23 m	1112	79	2006	
Pol3	Card or History	79.4		12-23 m	1112	79	2006	
Pol3	C or H <12 month	77.4		12-23 m	1112	79	2006	
MCV	Card or History	75.3		12-23 m	1112	79	2006	
MCV	C or H <12 month	70.3		12-23 m	1112	79	2006	
PAB	Card or History	75		CBAW	2370		2006	
2002 Burkina Faso, Revue Approfondie du PEV, 2003								
BCG	Card or History	90.3		12-23 m	11080	88.1	2003	
DTP1	Card or History	91.4		12-23 m	11080	88.1	2003	
DTP3	Card or History	77		12-23 m	11080	88.1	2003	
Pol3	Card or History	75.9		12-23 m	11080	88.1	2003	
MCV	Card or History	71.6		12-23 m	11080	88.1	2003	
2002 Enquête Démographique et de Santé 2002								
BCG	History	17.7		12-23 m	1840	66.7	2003	
BCG	Card or history	80.9		12-23 m	1840	66.7	2003	
BCG	Card	63.2		12-23 m	1840	66.7	2003	
BCG	C or H <12 month	80		12-23 m	1840	66.7	2003	
DTP1	History	14.3		12-23 m	1840	66.7	2003	
DTP1	Card or history	76.1		12-23 m	1840	66.7	2003	
DTP1	Card	61.8		12-23 m	1840	66.7	2003	
DTP1	C or H <12 month	73.4		12-23 m	1840	66.7	2003	
DTP3	History	6.7		12-23 m	1840	66.7	2003	
DTP3	Card or history	57		12-23 m	1840	66.7	2003	
DTP3	Card	50.3		12-23 m	1840	66.7	2003	
DTP3	C or H <12 month	52		12-23 m	1840	66.7	2003	
Pol3	History	7.1		12-23 m	1840	66.7	2003	
Pol3	Card or history	58.7		12-23 m	1840	66.7	2003	
Pol3	Card	51.6		12-23 m	1840	66.7	2003	
Pol3	C or H <12 month	53.4		12-23 m	1840	66.7	2003	
MCV	History	9		12-23 m	1840	66.7	2003	
MCV	Card or history	55.8		12-23 m	1840	66.7	2003	
MCV	Card	46.8		12-23 m	1840	66.7	2003	
MCV	C or H <12 month	43.2		12-23 m	1840	66.7	2003	
1998 Enquête Démographique et de Santé Burkina Faso 1998-1999, 2000								
BCG	Card or History	72.3		12-23 m	1041	55.9	1998/99	
BCG	C or H <12 month	69.9		12-23 m	1041	55.9	1998/99	
DTP1	Card or History	78.3		12-23 m	1041	55.9	1998/99	
DTP1	C or H <12 month	72.5		12-23 m	1041	55.9	1998/99	
DTP3	Card or History	41		12-23 m	1041	55.9	1998/99	
DTP3	C or H <12 month	34.8		12-23 m	1041	55.9	1998/99	
Pol3	Card or History	42.4		12-23 m	1041	55.9	1998/99	
Pol3	C or H <12 month	36		12-23 m	1041	55.9	1998/99	

Burkina Faso

Details Survey Data

Year Source

Antigen	Confirmation method	% coverage	Compliance with schedule	Age group	Sample size	% cards seen	Survey year	Comments
MCV	Card or History	45.8		12-23 m	1041	55.9	1998/99	
MCV	C or H <12 month	32.1		12-23 m	1041	55.9	1998/99	

1995 *Enquête a Indicateurs Multiples: Situation des Enfants au Burkina Faso, 1996*

BCG	Card or History	69.2		12-23 m			1996	
DTP1	Card or History			12-23 m			1996	
DTP3	Card or History	34.3		12-23 m			1996	
Pol3	Card or History	34.7		12-23 m			1996	
MCV	Card or History	42.8		12-23 m			1996	

1992 *Enquête Démographique et de Santé Burkina Faso 1993, 1994*

BCG	Card or History	85.4		12-23 m	1104	72.7	1993	
BCG	C or H <12 month	80.2		12-23 m	1104	72.7	1993	
BCG	C or H <12 month	77		24-35 m	1013	70	1993	
BCG	C or H <12 month	73.1		36-47 m	1179	61.6	1993	
BCG	C or H <12 month	57.6		48-59 m	1003	57.7	1993	
DTP1	Card or History	79.1		12-23 m	1104	72.7	1993	
DTP1	C or H <12 month	73.4		12-23 m	1104	72.7	1993	
DTP1	C or H <12 month	72.4		24-35 m	1013	70	1993	
DTP1	C or H <12 month	68.5		36-47 m	1179	61.6	1993	
DTP1	C or H <12 month	53.2		48-59 m	1003	57.7	1993	
DTP3	Card or History	40.6		12-23 m	1104	72.7	1993	
DTP3	C or H <12 month	32.7		12-23 m	1104	72.7	1993	
DTP3	C or H <12 month	31.5		24-35 m	1013	70	1993	
DTP3	C or H <12 month	30.9		36-47 m	1179	61.6	1993	
DTP3	C or H <12 month	22.3		48-59 m	1003	57.7	1993	
Pol3	Card or History	41		12-23 m	1104	72.7	1993	
Pol3	C or H <12 month	33		12-23 m	1104	72.7	1993	
Pol3	C or H <12 month	31.6		24-35 m	1013	70	1993	
Pol3	C or H <12 month	31.1		36-47 m	1179	61.6	1993	
Pol3	C or H <12 month	22.2		48-59 m	1003	57.7	1993	
MCV	Card or History	59.6		12-23 m	1104	72.7	1993	
MCV	C or H <12 month	37.1		12-23 m	1104	72.7	1993	
MCV	C or H <12 month	35.3		24-35 m	1013	70	1993	
MCV	C or H <12 month	38.5		36-47 m	1179	61.6	1993	
MCV	C or H <12 month	29.1		48-59 m	1003	57.7	1993	

1990 *Enquête Nationale de Couverture Vaccinale par Strate, 1991*

BCG	Card or History	95	Valid	12-23 m		94	1991	
BCG	C or H <12 month	84	Valid?	12-23 m		94	1991	
DTP1	Card or History	92	Valid	12-23 m		94	1991	
DTP1	C or H <12 month	81	Valid?	12-23 m		94	1991	
DTP3	Card or History	66	Valid	12-23 m		94	1991	
DTP3	C or H <12 month	37	Valid?	12-23 m		94	1991	
Pol3	Card or History	66	Valid	12-23 m		94	1991	
Pol3	C or H <12 month	37	Valid?	12-23 m		94	1991	
MCV	Card or History	79	Valid	12-23 m		94	1991	
MCV	C or H <12 month	42	Valid?	12-23 m		94	1991	

1989 *Enquête Nationale de Couverture Vaccinale par Strate, 1991*

BCG	Card or History	82	Valid?	12-23 m		83	1990	
BCG	C or H <12 month	65	Valid?	12-23 m		83	1990	

Burkina Faso

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	81	Valid?	12-23 m		83	1990	
DTP1	C or H <12 month	61	Valid?	12-23 m		83	1990	
DTP3	Card or History	44	Valid?	12-23 m		83	1990	
DTP3	C or H <12 month	21	Valid?	12-23 m		83	1990	
Pol3	Card or History	44	Valid?	12-23 m		83	1990	
Pol3	C or H <12 month	21	Valid?	12-23 m		83	1990	
MCV	Card or History	66	Valid?	12-23 m		83	1990	
MCV	C or H <12 month	30	Valid?	12-23 m		83	1990	

1987 *Enquête Nationale de Couverture Vaccinale par Strate, 1991*

BCG	Card or History	57	Valid?	12-23 m		57	1988	
DTP1	Card or History	53	Valid?	12-23 m		57	1988	
DTP3	Card or History	23	Valid?	12-23 m		57	1988	
Pol3	Card or History	23	Valid?	12-23 m		57	1988	
MCV	Card or History	37	Valid?	12-23 m		57	1988	

Burkina Faso

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.

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Year	PAB coverage estimate (%)
1980	
1981	10
1982	11
1983	12
1984	10
1985	8
1986	13
1987	18
1988	22
1989	55
1990	55
1991	55
1992	52
1993	54
1994	58
1995	64
1996	52
1997	63
1998	49
1999	55
2000	57
2001	60
2002	63
2003	67
2004	69
2005	72
2006	76
2007	80
2008	79