

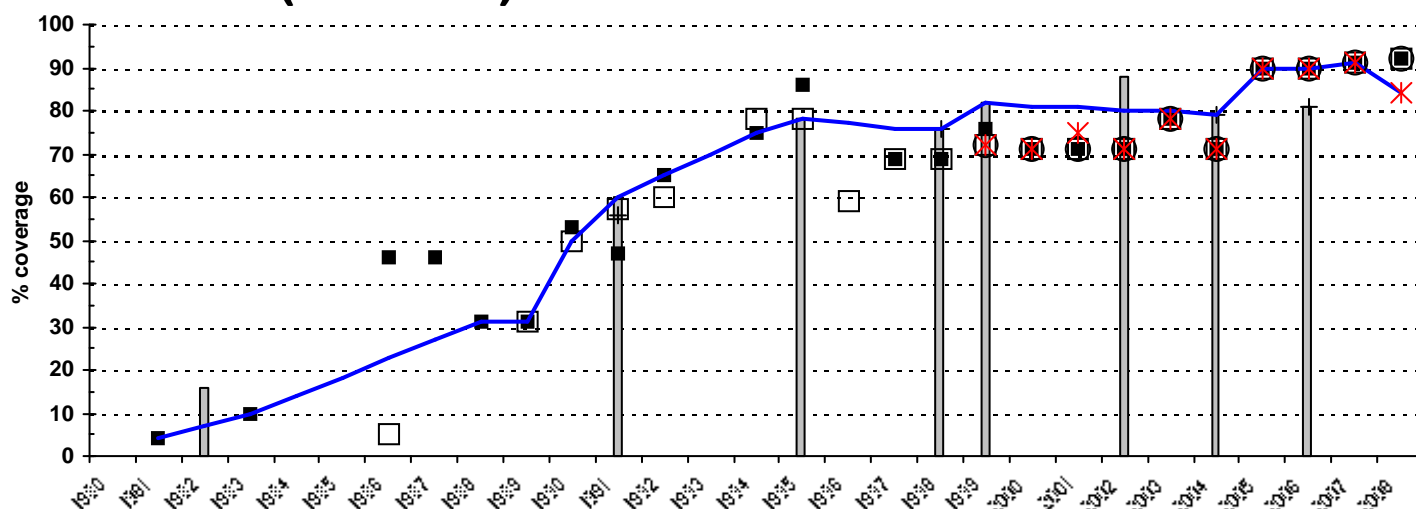
**WHO/UNICEF
Review of National Immunization Coverage
1980-2008**

Guinea

July, 2009

Guinea

BCG (1980-2008)



Description of trend

Estimates from 1991-2004 are based on survey results. Estimates from 2005 onward are based on nationally reported data and include immunizations given in catch-up campaigns. The 2003 MICS survey results were not taken due to limitations of the sampling frame. In 2002 data quality audit was conducted for the Vaccine Fund and the results suggest inadequacies in the routine reporting system. A subsequent 2004 data quality audit showed significant improvement in the monitoring system. Preliminary results from the 2008 survey (2006 birth cohort) do support reported trends since 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	4		4				
1982	7					16	
1983	10		10				
1984	14						
1985	18						
1986	23	5	46				
1987	27		46				
1988	31		31				
1989	31	31	31				
1990	50	50	53				
1991	60	57	47			60	56
1992	65	60	65				
1993	70						
1994	75	78	75				
1995	78	78	86			78	
1996	77	59					
1997	76	69	69				
1998	76	69	69			76	76
1999	82	72	76	72	72	82	
2000	81	71	71	71	71		
2001	81	71	71	71	75		
2002	80	71	71	71	71	88	
2003	80	78	78	78	78		
2004	79	71	71	71	71	79	79
2005	90	90	90	90	90		
2006	90	90	90	90	90	81	81
2007	91	91	91	91	91		
2008	84	92	92	92	84		

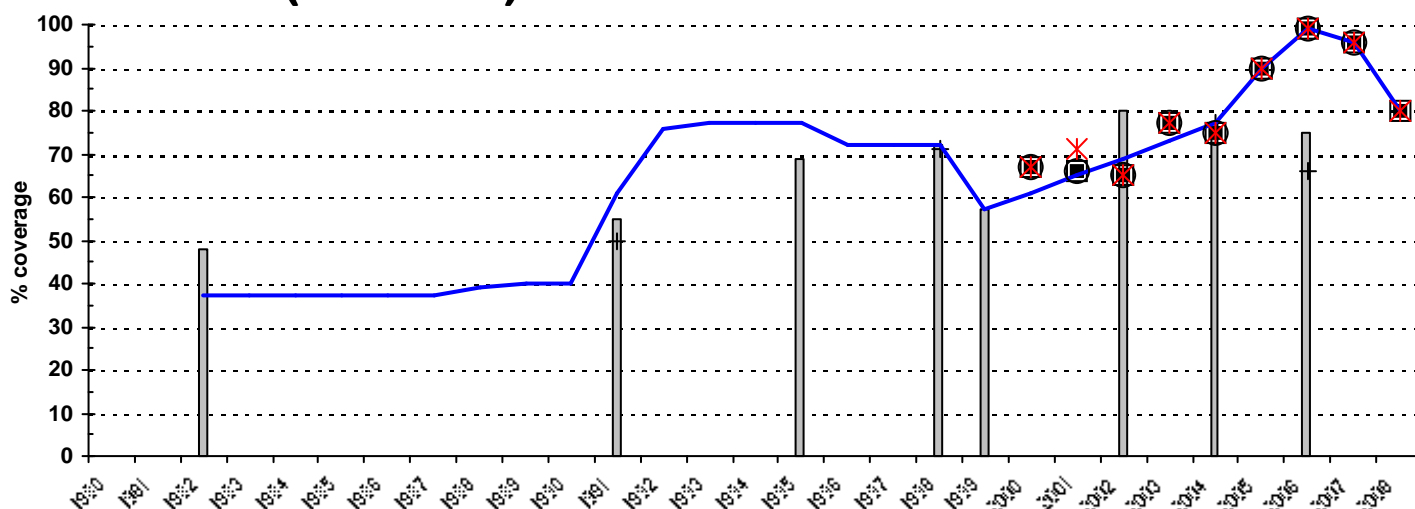
*Prior to 1998 national reports to WHO/UNICEF did not specify whether information was derived from administrative records, surveys or other sources.

**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.

Guinea

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 2004 onward are based on these reports. From 1999-2004 estimates are based on survey results. For years prior to 1999 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. Preliminary results from the 2008 survey (2006 birth cohort) do not support reported trends since 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							
1982	37					48	
1983	37						
1984	37						
1985	37						
1986	37						
1987	37						
1988	39						
1989	40						
1990	40						
1991	61					55	50
1992	76						
1993	77						
1994	77						
1995	77					69	
1996	72						
1997	72						
1998	72					72	71
1999	57					57	
2000	61	67	67	67	67		
2001	65	66	66	66	71		
2002	69	65	65	65	65	80	
2003	73	77	77	77	77		
2004	77	75	75	75	75	77	77
2005	90	90	90	90	90		
2006	99	99	99	99	99	75	66
2007	96	96	96	96	96		
2008	80	80	80		80		

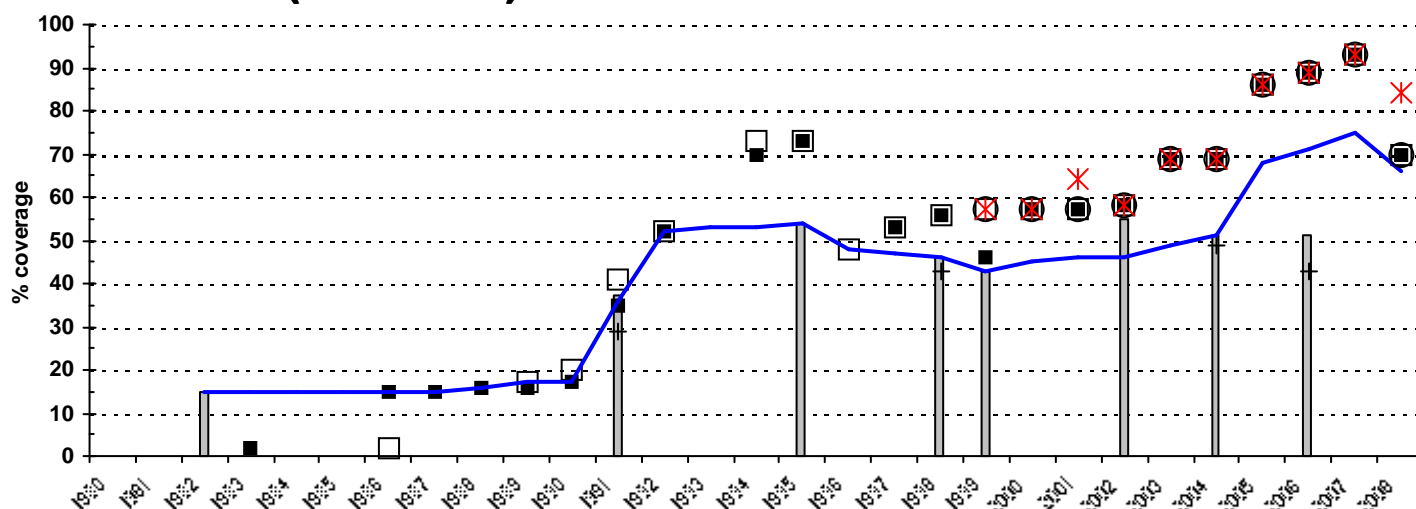
*Prior to 1998 national reports to WHO/UNICEF did not specify whether information was derived from administrative records, surveys or other sources.

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

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Guinea

DTP3 (1980-2008)



Description of trend

Estimates from 1991-2004 are based on survey results. Estimates from 2005 onward are based on nationally reported data which include immunizations given in catch-up campaigns, calibrated with the 2004 survey results. The 2003 MICS survey results were not taken due to limitations of the sampling frame. In 2002 a data quality audit was conducted for the Vaccine Fund and the results suggest inadequacies in the routine reporting system. A subsequent 2004 data quality audit showed significant improvement in the monitoring system. Preliminary results from the 2008 survey (2006 birth cohort) do not support reported trends since 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							
1982	15					15	
1983	15		2				
1984	15						
1985	15						
1986	15	2	15				
1987	15		15				
1988	16		16				
1989	17	17	16				
1990	17	20	17				
1991	36	41	35			37	29
1992	52	52	52				
1993	53						
1994	53	73	70				
1995	54	73	73			54	
1996	48	48					
1997	47	53	53				
1998	46	56	56			46	43
1999	43	57	46	57	57	43	
2000	45	57	57	57	57		
2001	46	57	57	57	64		
2002	46	58	58	58	58	55	
2003	49	69	69	69	69		
2004	51	69	69	69	69	51	49
2005	68	86	86	86	86		
2006	71	89	89	89	89	51	43
2007	75	93	93	93	93		
2008	66	70	70	70	84		

*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.

Guinea

Pol3 (1980-2008)



Description of trend

Estimates from 1991-2004 are based on survey results. Estimates from 2005 onward are based on nationally reported data which include immunizations given in catch-up campaigns, calibrated with the 2004 survey results. The 2003 MICS survey results were not taken due to limit of the sampling frame. In 2002 a data quality audit was conducted for the Vaccine Fund and the results suggest inadequacies in the routine reporting system. A subsequent 2004 data quality audit showed significant improvement in the monitoring system. The 2007 decline in cover due to a national stock out. Preliminary results from the 2008 survey (2006 birth cohort) do not support reported trends since 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							
1982	15					15	
1983	15		2				
1984	15						
1985	16						
1986	16	1	8				
1987	16		8				
1988	16		16				
1989	16	17	16				
1990	18	20	17				
1991	37	41	35			37	29
1992	52	52	52				
1993	53						
1994	53	73	70				
1995	54	73	73			54	
1996	48	48					
1997	46	53	53				
1998	43	56	56			43	40
1999	43	57	43	57	57	43	
2000	44	57	57	57	57		
2001	46	57	57	57	64		
2002	47	58	58	58	58	42	
2003	49	71	71	71	71		
2004	50	68	68	68	68	50	48
2005	70	88	88	88	88		
2006	70	88	88	88	88	43	36
2007	62	80	80	80	80		
2008	71	90	90	90	89		

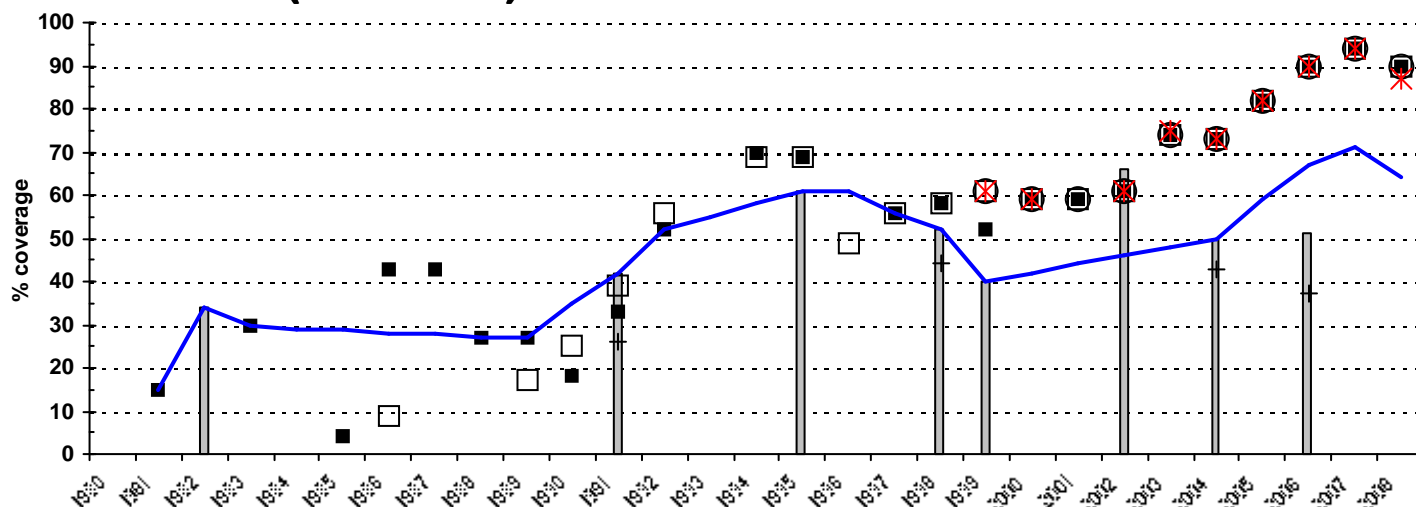
*Prior to 1998 national reports to WHO/UNICEF did not specify whether information was derived from administrative records, surveys or other sources.

**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.

Guinea

MCV (1980-2008)



Description of trend

Estimates from 1991-2004 are based on survey results. Estimates from 2005 onward are based on nationally reported data which include immunizations given in catch-up campaigns, calibrated with the 2004 survey results. The 2003 MICS survey results were not taken due to limitations of the sampling frame. In 2002 a data quality audit was conducted for the Vaccine Fund and the results suggest inadequacies in the routine reporting system. A subsequent 2004 data quality audit showed significant improvement in the monitoring system. Preliminary results of the 2008 survey (2006 birth cohort) do not support reported trends since 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	15		15				
1982	34					34	
1983	30		30				
1984	29						
1985	29		4				
1986	28	9	43				
1987	28		43				
1988	27		27				
1989	27	17	27				
1990	35	25	18				
1991	42	39	33			42	26
1992	52	56	52				
1993	55						
1994	58	69	70				
1995	61	69	69			61	
1996	61	49					
1997	56	56	56				
1998	52	58	58			52	44
1999	40	61	52	61	61	40	
2000	42	59	59	59	59		
2001	44	59	59	59			
2002	46	61	61	61	61	66	
2003	48	74	74	74	75		
2004	50	73	73	73	73	50	43
2005	59	82	82	82	82		
2006	67	90	90	90	90	51	37
2007	71	94	94	94	94		
2008	64	90	90	90	87		

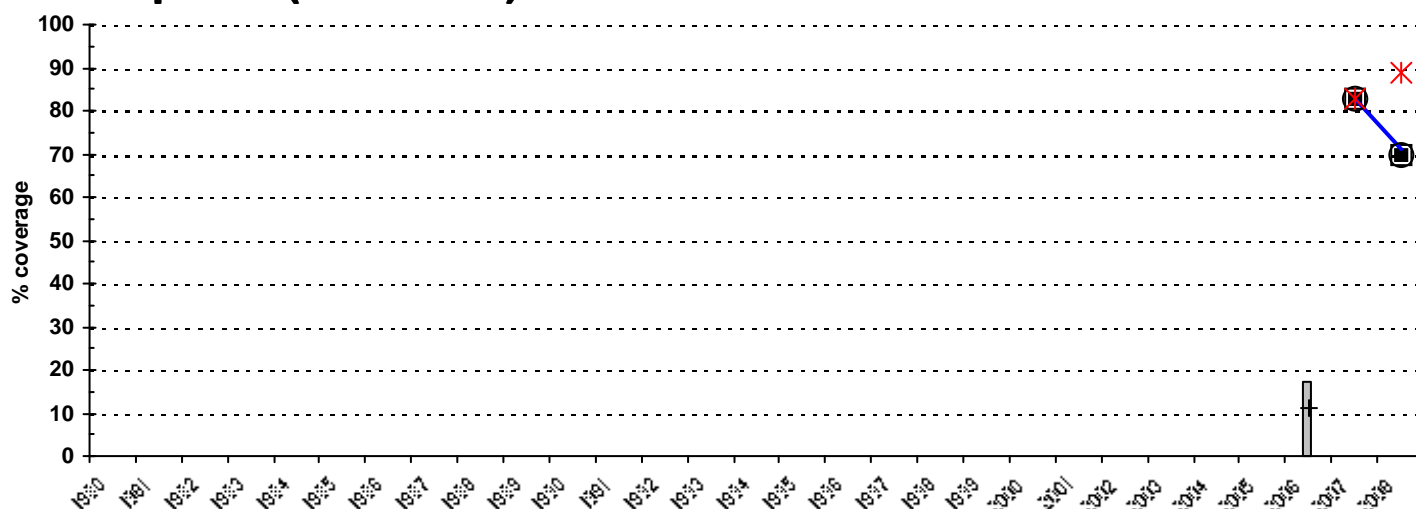
*Prior to 1998 national reports to WHO/UNICEF did not specify whether information was derived from administrative records, surveys or other sources.

**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.

Guinea

HepB3 (1980-2008)



Description of trend

Hepatitis B vaccine introduced in December 2006. WHO and UNICEF recommend a nationally representative survey to confirm levels of 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							
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						17	11
2007	83	83	83	83	83		
2008	71	70	70	70	89		

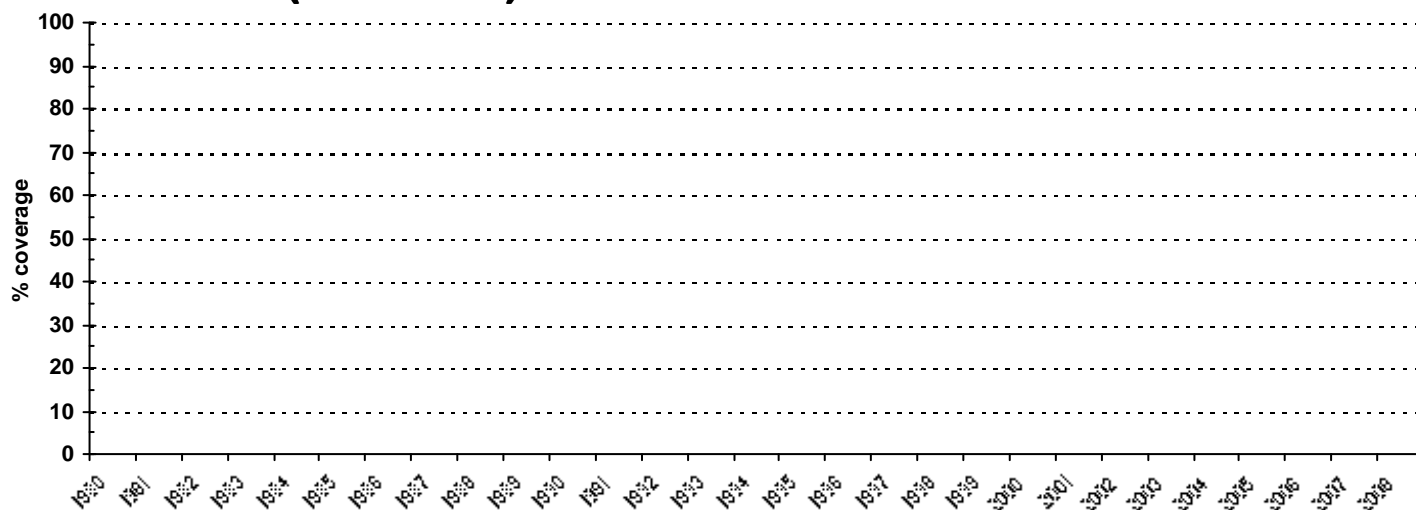
*Prior to 1998 national reports to WHO/UNICEF did not specify whether information was derived from administrative records, surveys or other sources.

**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.

Guinea

Hib3 (1980-2008)



Description of trend

Pentavalent DTP-HepB-Hib vaccine 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							

*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.

Guinea

Details Survey Data

Year Source

Antigen	Confirmation method	% coverage	Compliance with schedule	Age group	Sample size	% cards seen	Survey year	Comments
2006 Republique de Guinée, Enquête nationale sur l'état nutritionnel et le suivi des principaux indicateurs de survie de l'enfant, Rapport provisoire 2008								
BCG	Card or History	81.3		12-23 m	2474	51.5	2007	
BCG	C or H <12 month	81.3		12-23 m	2474	51.5	2007	
DTP1	Card or History	74.7		12-23 m	2474	51.5	2007	
DTP1	C or H <12 month	66.2		12-23 m	2474	51.5	2007	
DTP3	Card or History	50.6		12-23 m	2474	51.5	2007	
DTP3	C or H <12 month	43.1		12-23 m	2474	51.5	2007	
Pol3	Card or History	42.8		12-23 m	2474	51.5	2007	
Pol3	C or H <12 month	36.1		12-23 m	2474	51.5	2007	
MCV	Card or History	51.3		12-23 m	2474	51.5	2007	
MCV	C or H <12 month	37.1		12-23 m	2474	51.5	2007	
HepB	Card or History	16.6		12-23 m	2474	51.5	2007	
HepB	C or H <12 month	11.1		12-23 m	2474	51.5	2007	
2004 Enquête Démographique et de Santé, Guinée, 2005								
BCG	Card or History	79.4		12-23 m	1118	53.6	2005	
BCG	C or H <12 month	79.4		12-23 m	1118	53.6	2005	
DTP1	Card or History	77.2		12-23 m	1118	53.6	2005	
DTP1	C or H <12 month	76.8		12-23 m	1118	53.6	2005	
DTP3	Card or History	51.1		12-23 m	1118	53.6	2005	
DTP3	C or H <12 month	48.9		12-23 m	1118	53.6	2005	
Pol3	Card or History	50.1		12-23 m	1118	53.6	2005	
Pol3	C or H <12 month	48.2		12-23 m	1118	53.6	2005	
MCV	Card or History	50.2		12-23 m	1118	53.6	2005	
MCV	C or H <12 month	43.1		12-23 m	1118	53.6	2005	
2002 Guinea MICS 2003								
BCG	Card or History	88.3		12-23 m		53.4	2003	
DTP1	Card or History	79.8		12-23 m		53.4	2003	
DTP3	Card or History	54.7		12-23 m		53.4	2003	
Pol3	Card or History	42.4		12-23 m		53.4	2003	
MCV	Card or History	65.9		12-23 m		53.4	2003	
1999 Revue du Programme Elargi de Vaccination, Guinea 2000, 2001								
BCG	Card or History	82		12-23 m	707		2000	
DTP1	Card or History	57		12-23 m	707		2000	
DTP3	Card or History	43		12-23 m	707		2000	
Pol3	Card or History	43		12-23 m	707		2000	
MCV	Card or History	40		12-23 m	707		2000	
1998 Enquête Démographique et de Santé Guinée 1999, 2000								
BCG	Card or History	75.8		12-23 m	921	46.5	1999	
BCG	C or H <12 month	75.5		12-23 m	921	46.5	1999	
BCG	C or H <12 month	73.7		24-35 m	985	36.9	1999	
BCG	C or H <12 month	67.8		36-47 m	1009	24.3	1999	
BCG	C or H <12 month	66		48-59 m	1032	20.2	1999	
DTP1	Card or History	71.9		12-23 m	921	46.5	1999	
DTP1	C or H <12 month	71		12-23 m	921	46.5	1999	
DTP1	C or H <12 month	66.7		24-35 m	985	36.9	1999	
DTP1	C or H <12 month	62.6		36-47 m	1009	24.3	1999	

Guinea

Details Survey Data

Year Source

Antigen	Confirmation method	% coverage	Compliance with schedule	Age group	Sample size	% cards seen	Survey year	Comments
DTP1	C or H <12 month	61.1		48-59 m	1032	20.2	1999	
DTP3	Card or History	46.2		12-23 m	921	46.5	1999	
DTP3	C or H <12 month	43.2		12-23 m	921	46.5	1999	
DTP3	C or H <12 month	39.3		24-35 m	985	36.9	1999	
DTP3	C or H <12 month	33.2		36-47 m	1009	24.3	1999	
DTP3	C or H <12 month	31.9		48-59 m	1032	20.2	1999	
Pol3	Card or History	43.1		12-23 m	921	46.5	1999	
Pol3	C or H <12 month	40.4		12-23 m	921	46.5	1999	
Pol3	C or H <12 month	32.8		24-35 m	985	36.9	1999	
Pol3	C or H <12 month	27.8		36-47 m	1009	24.3	1999	
Pol3	C or H <12 month	28.4		48-59 m	1032	20.2	1999	
MCV	Card or History	52.1		12-23 m	921	46.5	1999	
MCV	C or H <12 month	44.2		12-23 m	921	46.5	1999	
MCV	C or H <12 month	39.4		24-35 m	985	36.9	1999	
MCV	C or H <12 month	40.9		36-47 m	1009	24.3	1999	
MCV	C or H <12 month	36		48-59 m	1032	20.2	1999	

1995 Enquête a Indicateurs Multiples (EIM) 1996

BCG	Card or History	78.3		12-23 m	1543	41.7	1996	
DTP1	Card or History	68.6		12-23 m	1543	41.7	1996	
DTP3	Card or History	53.9		12-23 m	1543	41.7	1996	
Pol3	Card or History	53.9		12-23 m	1543	41.7	1996	
MCV	Card or History	61.4		12-23 m	1543	41.7	1996	

1991 Enquête a Indicateurs Multiples (EIM) 1996

BCG	Card or History	60		12-23 m	1543	41.7	1992	
DTP1	Card or History			12-23 m	1543	41.7	1992	
DTP3	Card or History	37		12-23 m	1543	41.7	1992	
Pol3	Card or History	37		12-23 m	1543	41.7	1992	
MCV	Card or History	42		12-23 m	1543	41.7	1992	

1991 Enquête Démographique et de Santé Guinee 1992, 1994

BCG	Card or History	59.9		12-23 m	823	26	1992	
BCG	C or H <12 month	56.1		12-23 m	823	26	1992	
BCG	C or H <12 month	49.3		24-35 m	821	21.6	1992	
BCG	C or H <12 month	34.3		36-47 m	937	12.7	1992	
BCG	C or H <12 month	28.4		48-59 m	914	7.8	1992	
DTP1	Card or History	55.4		12-23 m	823	26	1992	
DTP1	C or H <12 month	50.3		12-23 m	823	26	1992	
DTP1	C or H <12 month	41.4		24-35 m	821	21.6	1992	
DTP1	C or H <12 month	27.4		36-47 m	937	12.7	1992	
DTP1	C or H <12 month	17		48-59 m	914	7.8	1992	
DTP3	Card or History	36.5		12-23 m	823	26	1992	
DTP3	C or H <12 month	29.2		12-23 m	823	26	1992	
DTP3	C or H <12 month	21.9		24-35 m	821	21.6	1992	
DTP3	C or H <12 month	11		36-47 m	937	12.7	1992	
DTP3	C or H <12 month	7.6		48-59 m	914	7.8	1992	
Pol3	Card or History	36.5		12-23 m	823	26	1992	
Pol3	C or H <12 month	29.2		12-23 m	823	26	1992	
Pol3	C or H <12 month	21.9		24-35 m	821	21.6	1992	
Pol3	C or H <12 month	11		36-47 m	937	12.7	1992	
Pol3	C or H <12 month	7.6		48-59 m	914	7.8	1992	
MCV	Card or History	42.3		12-23 m	823	26	1992	

Guinea

Details Survey Data

Year Source

Antigen	Confirmation method	% coverage	Compliance with schedule	Age group	Sample size	% cards seen	Survey year	Comments
MCV	C or H <12 month	25.5		12-23 m	823	26	1992	
MCV	C or H <12 month	20.3		24-35 m	821	21.6	1992	
MCV	C or H <12 month	13.1		36-47 m	937	12.7	1992	
MCV	C or H <12 month	3.1		48-59 m	914	7.8	1992	

1982 *Combating Childhood Communicable Diseases, Guinea 1983*

BCG	Card or History	16		12-23 m			1983	
DTP1	Card or History	48		12-23 m			1983	
DTP3	Card or History	15		12-23 m			1983	
Pol3	Card or History	15		12-23 m			1983	
MCV	Card or History	34		12-23 m			1983	

Guinea

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.

Guinea

Year	PAB coverage estimate (%)
1980	
1981	
1982	
1983	
1984	
1985	
1986	5
1987	11
1988	17
1989	24
1990	27
1991	36
1992	47
1993	50
1994	52
1995	68
1996	70
1997	72
1998	74
1999	75
2000	79
2001	80
2002	80
2003	85
2004	86
2005	90
2006	95
2007	95
2008	96