

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

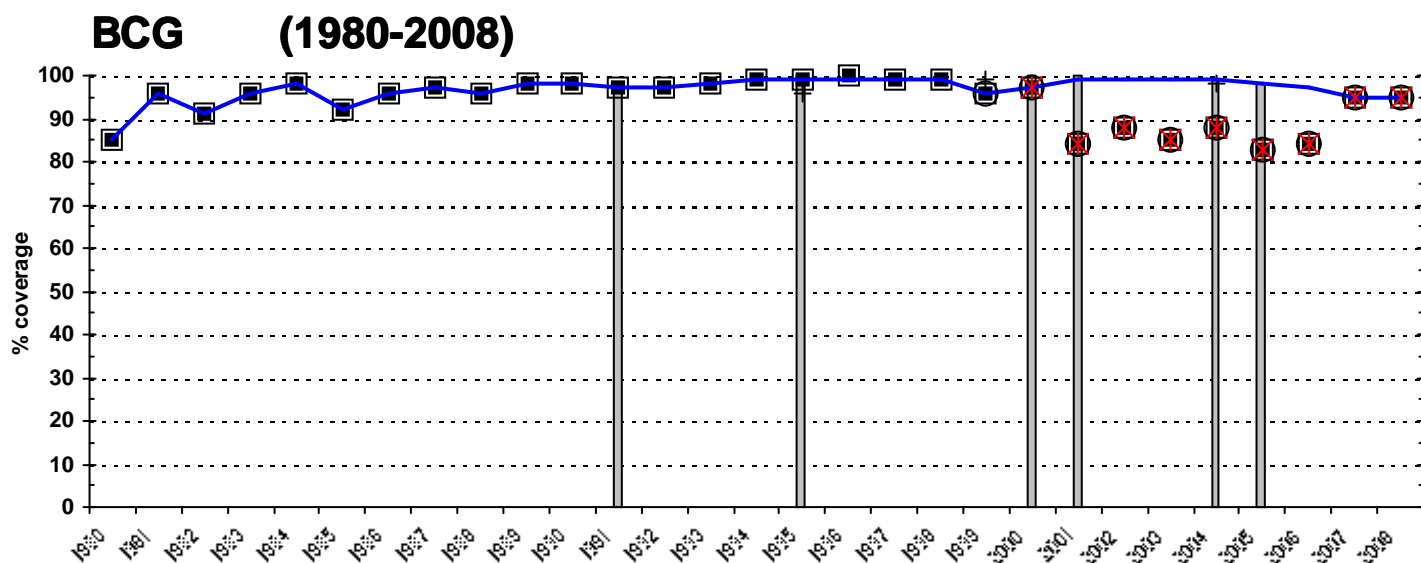
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***Gambia***

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**July, 2009**

# Gambia



## Description of trend

Estimated immunization coverage levels are based on reported data confirmed by surveys. Between 2001-2006 estimates are based on survey results.

## Data presented in chart

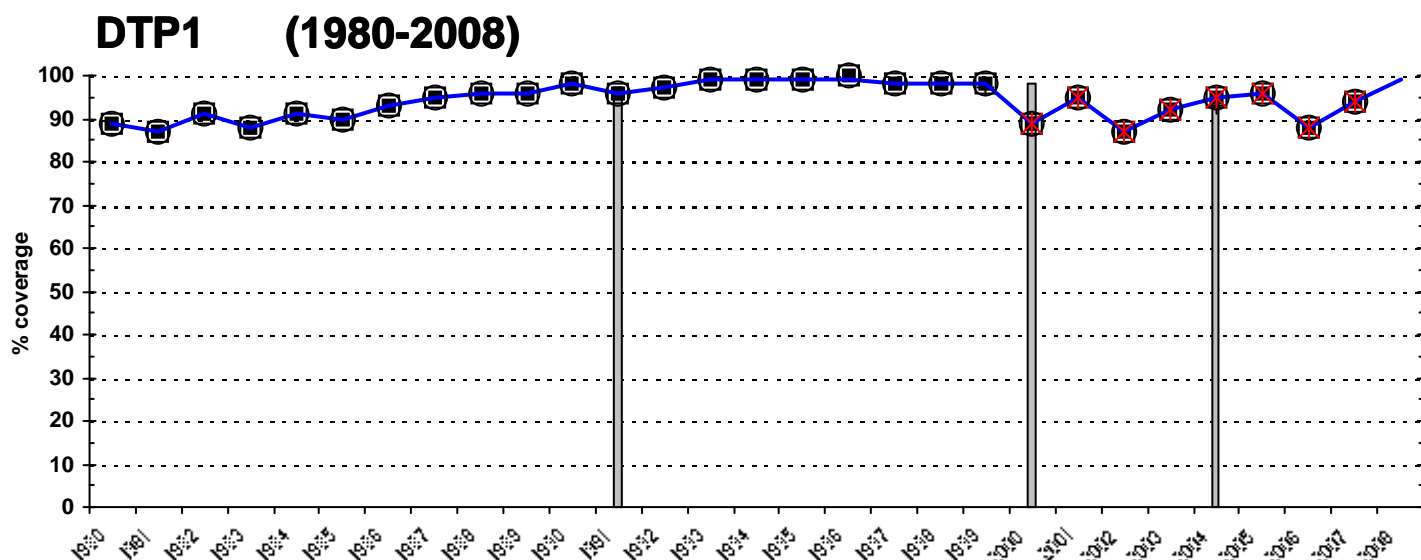
Year	WHO/ UNICEF estimate (%)	Reported to:*		Government official estimate (%)	Reported doses administered (%)**	Survey data (%)***	
		WHO (%)	UNICEF (%)			Survey 12-23 months	Survey <12 months
1980	85	85	85				
1981	96	96	96				
1982	91	91	91				
1983	96	96	96				
1984	98	98	98				
1985	92	92	92				
1986	96	96	96				
1987	97	97	97				
1988	96	96	96				
1989	98	98	98				
1990	98	98	98				
1991	97	97	97			97	
1992	97	97	97				
1993	98	98	98				
1994	99	99	99				
1995	99	99	99			100	96
1996	99	100	100				
1997	99	99	99				
1998	99	99	99				
1999	96	96	96	96			99
2000	97	97	97	97	97	100	
2001	99	84	84	84	84	100	
2002	99	88	88	88	88		
2003	99	85	85	85	85		
2004	99	88	88	88	88	99	98
2005	98	83	83	83	83	98	
2006	97	84	84	84	84		
2007	95	95	95	95	95		
2008	95	95	95	95	95		

\*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.

# Gambia



## 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 for 2000 onward (with the exception of 2001 where reported DTP1 is lower than DTP3) are based on these reports. For years prior to 2000 and 2001 the estimates are derived from the WHO/UNICEF estimates of DTP3 and the relationship between the level 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	89	89	89	89			
1981	87	87	87	87			
1982	91	91	91	91			
1983	88	88	88	88			
1984	91	91	91	91			
1985	90	90	90	90			
1986	93	93	93	93			
1987	95	95	95	95			
1988	96	96	96	96			
1989	96	96	96	96			
1990	98	98	98	98			
1991	96	96	96	96		97	
1992	97	97	97	97			
1993	99	99	99	99			
1994	99	99	99	99			
1995	99	99	99	99			
1996	99	100	100	100			
1997	98	98	98	98			
1998	98	98	98	98			
1999	98	98	98	98			97
2000	89	89	89	89	89	98	
2001	95	95	95	95	95		
2002	87	87	87	87	87		
2003	92	92	92	92	92		
2004	95	95	95	95	95	96	93
2005	96	96	96	96	96		
2006	88	88	88	88	88		
2007	94	94	94	94	94		
2008	99	103	103	103	103		

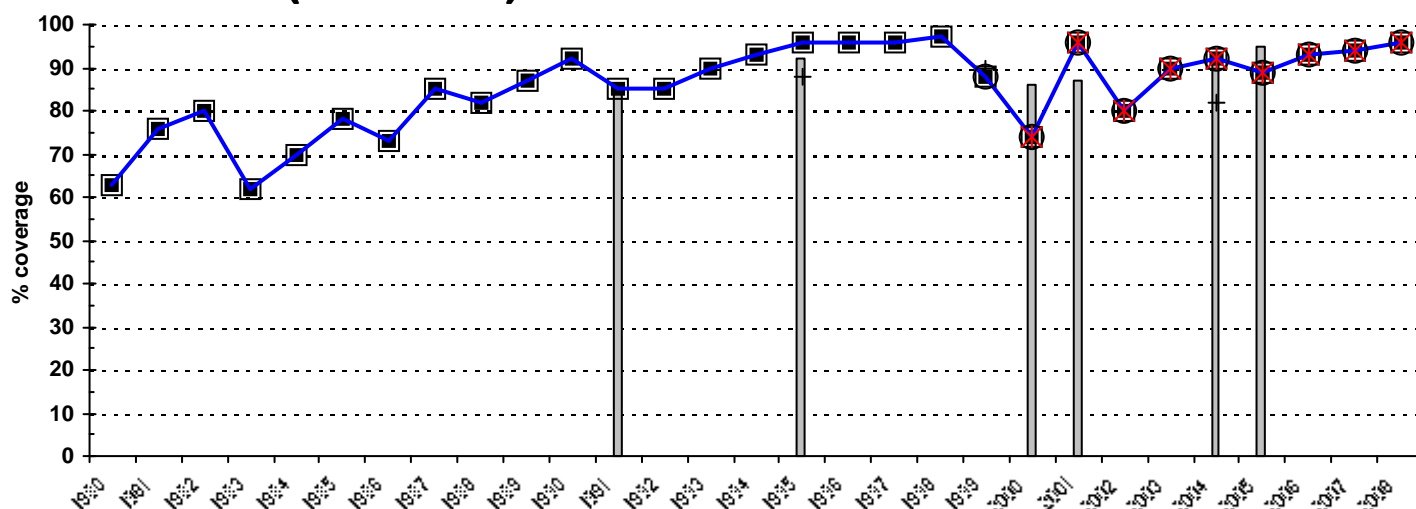
\*Prior to 1998 national reports to WHO/UNICEF did not specify whether information was derived from administrative records, surveys or other sources.

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

\*\*\*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.

# Gambia

## DTP3 (1980-2008)



### Description of trend

Estimated immunization coverage levels are based on reported data confirmed by surveys.

### 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	63	63	63				
1981	76	76	76				
1982	80	80	80				
1983	62	62	62				
1984	70	70	70				
1985	78	78	78				
1986	73	73	73				
1987	85	85	85				
1988	82	82	82				
1989	87	87	87				
1990	92	92	92				
1991	85	85	85				
1992	85	85	85			85	
1993	90	90	90				
1994	93	93	93				
1995	96	96	96			92	88
1996	96	96	96				
1997	96	96	96				
1998	97	97	97				
1999	88	88	88	88			90
2000	74	74	74	74	74	86	
2001	96	96	96	96	96	87	
2002	80	80	80	80	80		
2003	90	90	90	90	90		
2004	92	92	92	92	92	92	82
2005	89	89	89	89	89	95	
2006	93	93	93	93	93		
2007	94	94	94	94	94		
2008	96	96	96	96	96		

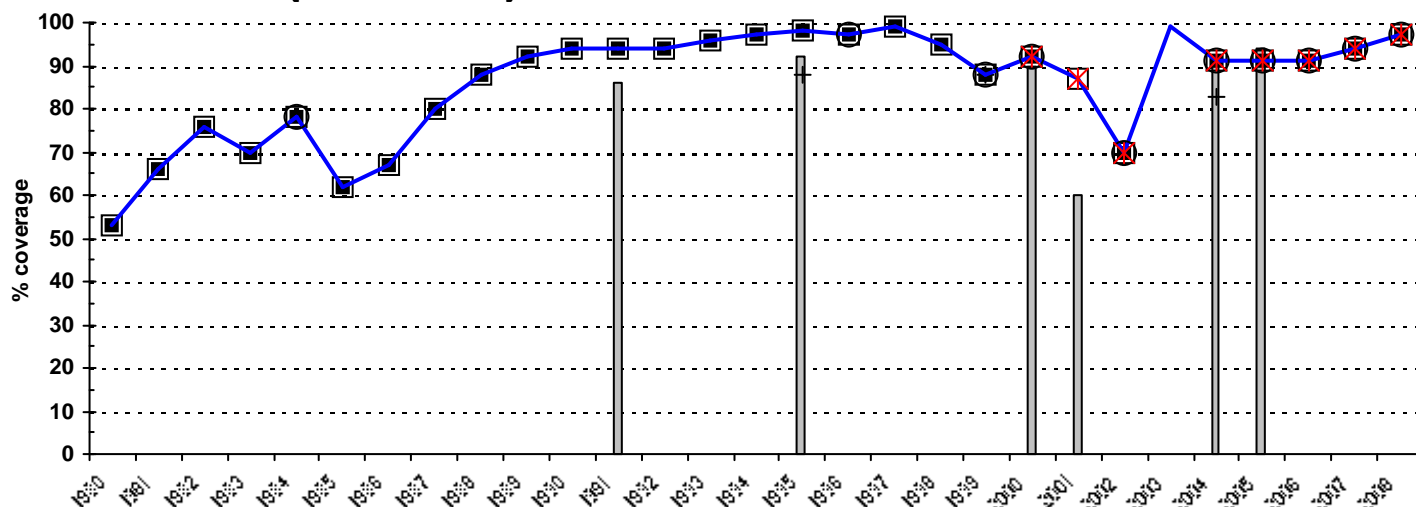
\*Prior to 1998 national reports to WHO/UNICEF did not specify whether information was derived from administrative records, surveys or other sources.

\*\*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.

# Gambia

## Pol3 (1980-2008)



### Description of trend

Estimated immunization coverage levels are based on reported data confirmed by surveys.

### 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	53	53	53				
1981	66	66	66				
1982	76	76	76				
1983	70	70	70				
1984	78	78	78	78			
1985	62	62	62				
1986	67	67	67				
1987	80	80	80				
1988	88	88	88				
1989	92	92	92				
1990	94	94	94				
1991	94	94	94			86	
1992	94	94	94				
1993	96	96	96				
1994	97	97	97				
1995	98	98	98			92	88
1996	97	97	97	97			
1997	99	99	99				
1998	95	95	95				
1999	88	88	88	88			88
2000	92	92	92	92	92	90	
2001	87	87	87		87	60	
2002	70	70	70	70	70		
2003	99	108	108	108	108		
2004	91	91	91	91	91	92	83
2005	91	91	91	91	91	94	
2006	91	91	91	91	91		
2007	94	94	94	94	94		
2008	97	97	97	97	97		

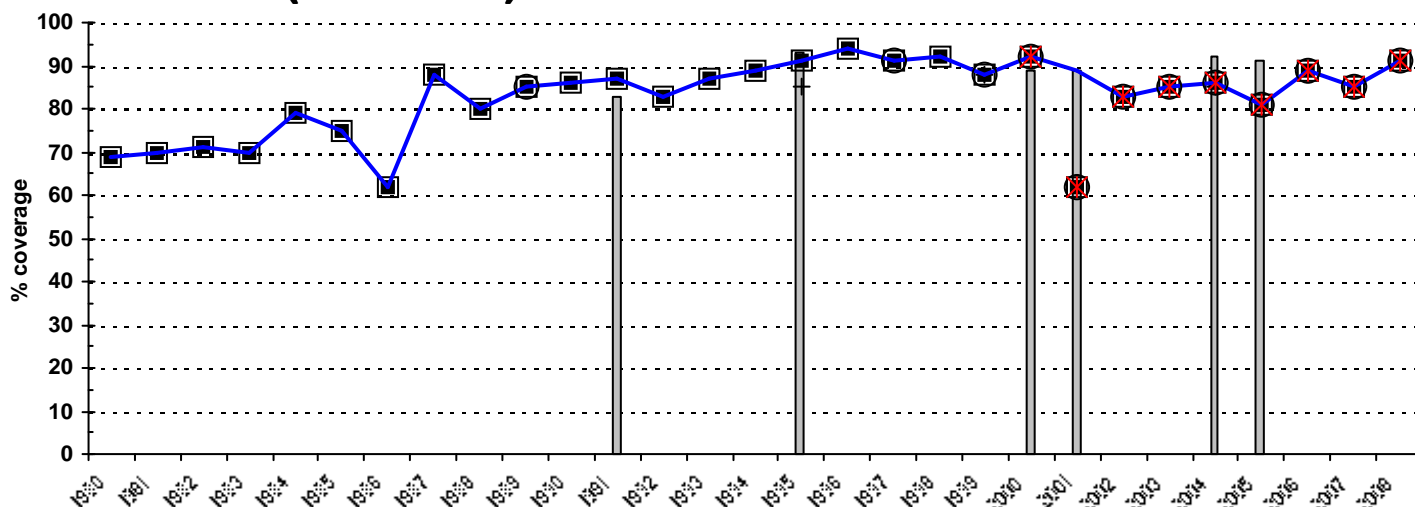
\*Prior to 1998 national reports to WHO/UNICEF did not specify whether information was derived from administrative records, surveys or other sources.

\*\*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.

# Gambia

## MCV (1980-2008)



### Description of trend

Estimated immunization coverage levels are based on reported data confirmed by surveys. Decline in 2001 is unexplained and estimates 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	69	69	69				
1981	70	70	70				
1982	71	71	71				
1983	70	70	70				
1984	79	79	79				
1985	75	75	75				
1986	62	62	62				
1987	88	88	88				
1988	80	80	80				
1989	85	85	85	85			
1990	86	86	86				
1991	87	87	87			83	
1992	83	83	83				
1993	87	87	87				
1994	89	89	89				
1995	91	91	91			93	85
1996	94	94	94				
1997	91	91	91	91			
1998	92	92	92				
1999	88	88	88	88			88
2000	92	92	92	92	92	89	
2001	89	62	62	62	62	89	
2002	83	83	83	83	83		
2003	85	85	85	85	85		
2004	86	86	86	86	86	92	85
2005	81	81	81	81	81	91	
2006	89	89	89	89	89		
2007	85	85	85	85	85		
2008	91	91	91	91	91		

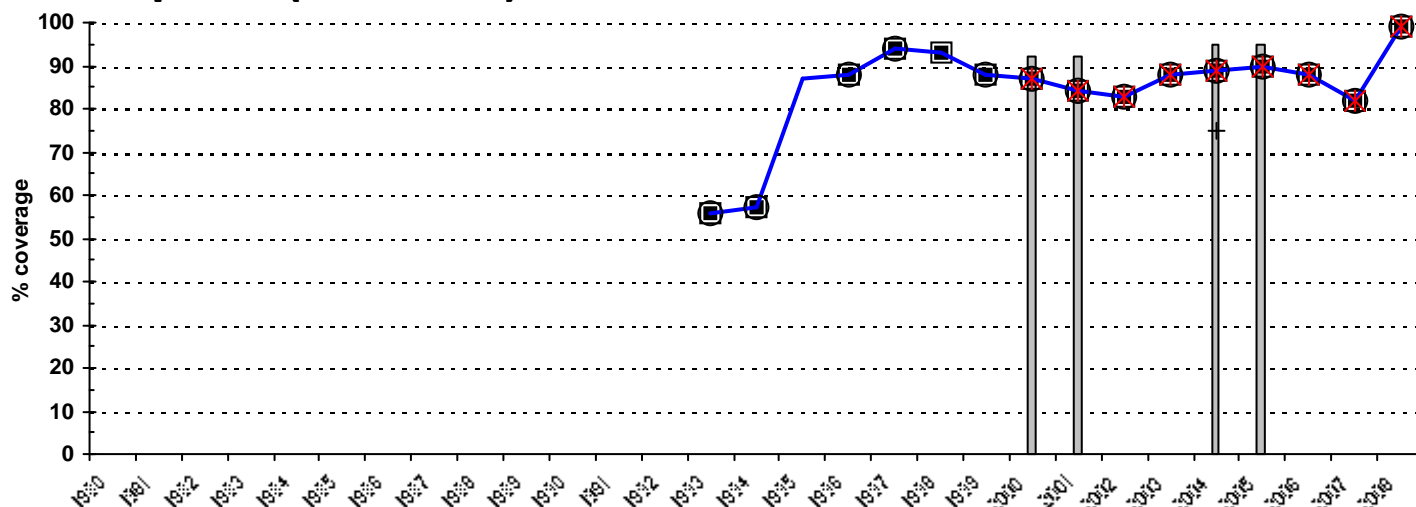
\*Prior to 1998 national reports to WHO/UNICEF did not specify whether information was derived from administrative records, surveys or other sources.

\*\*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.

# Gambia

## HepB3 (1980-2008)



### Description of trend

Hepatitis vaccine was introduced in the early 1990s. Estimated immunization coverage levels are based on reported data confirmed by survey

### 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	78						
1992							
1993	56	56	56	56			
1994	57	57	57	57			
1995	87						
1996	88	88	88	88			
1997	94	94	94	94			
1998	93	93	93				
1999	88	88	88	88			
2000	87	87	87	87	87	92	
2001	84	84	84	84	84	92	
2002	83	83	83	83	83		
2003	88	88	88	88	88		
2004	89	89	89	89	89	95	75
2005	90	90	90	90	90	95	
2006	88	88	88	88	88		
2007	82	82	82	82	82		
2008	99	99	99	99	99		

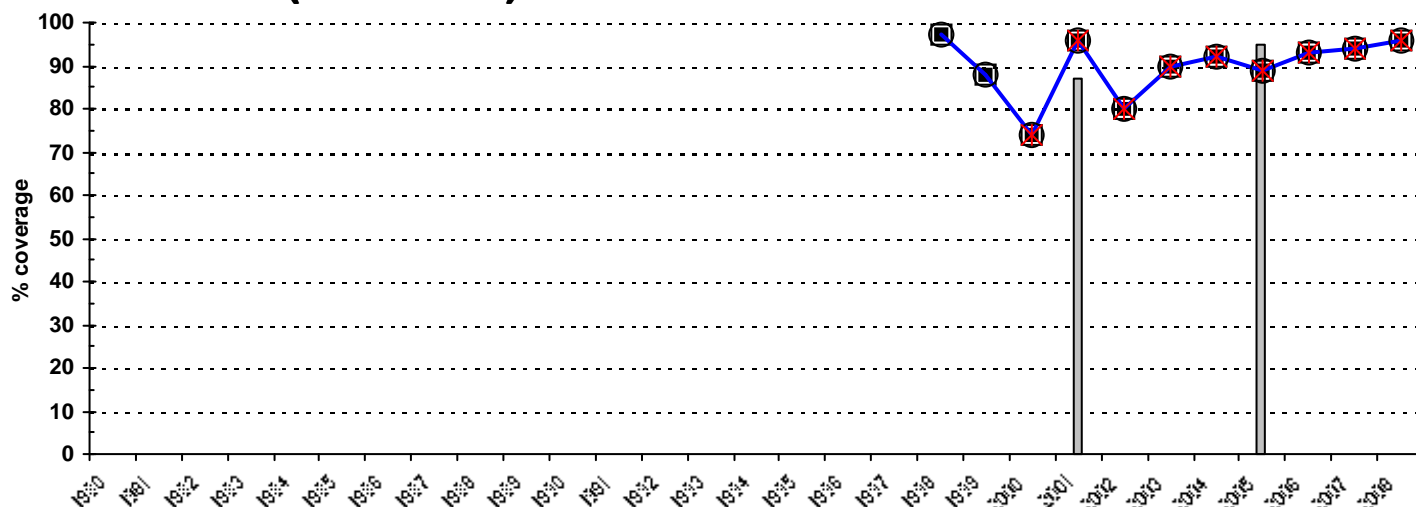
\*Prior to 1998 national reports to WHO/UNICEF did not specify whether information was derived from administrative records, surveys or other sources.

\*\*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.

# Gambia

## Hib3 (1980-2008)



### Description of trend

DTP-Hib was introduced in 1997. Estimated immunization coverage levels are based on reported 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							
1981							
1982							
1983							
1984							
1985							
1986							
1987							
1988							
1989							
1990							
1991							
1992							
1993							
1994							
1995							
1996							
1997							
1998	97	97	97	97			
1999	88	88	88	88			
2000	74	74	74	74	74		
2001	96	96	96	96	96	87	
2002	80	80	80	80	80		
2003	90	90	90	90	90		
2004	92	92	92	92	92		
2005	89	89	89	89	89	95	
2006	93	93	93	93	93		
2007	94	94	94	94	94		
2008	96	96	96	96	96		

\*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.

# Gambia

## Details Survey Data

### Year Source

Antigen	Confirmation method	% coverage	Compliance with schedule	Age group	Sample size	% cards seen	Survey year	Comments
<b>2005 The Gambia Immunisation Survey for 2004</b>								
BCG	n.a.	98.3		12-23 m			2006	
DTP3	n.a.	95.1		12-23 m			2006	
Pol3	n.a.	93.8		12-23 m			2006	
MCV	n.a.	90.9		12-23 m			2006	
HepB	n.a.	95.4		12-23 m			2006	
Hib3	n.a.	95.1		12-23 m			2006	
PAB	n.a.	84.7		CBAW			2006	
<b>2005 The Gambia Multiple Indicator Cluster Survey 2005/2006</b>								
PAB	Card or History	75.6		CBAW	3070		2005/06	
<b>2004 The Gambia Immunisation Survey for 2003</b>								
BCG	n.a.	99.2		12-23 m	1470		2005	Sample size approximate; inferred from report text.
DTP3	n.a.	92.2		12-23 m	1470		2005	Sample size approximate; inferred from report text.
Pol3	n.a.	91.6		12-23 m	1470		2005	Sample size approximate; inferred from report text.
MCV	n.a.	89.3		12-23 m	1470		2005	Sample size approximate; inferred from report text.
HepB	n.a.	94.9		12-23 m	1470		2005	Sample size approximate; inferred from report text.
PAB	n.a.	76.5		CBAW		37.6	2005	
<b>2004 The Gambia Multiple Indicator Cluster Survey 2005/2006</b>								
BCG	Card or History	98.7		12-23 m	1486	90.5	2005/06	
BCG	C or H <12 month	97.6		12-23 m	1486	90.5	2005/06	
DTP1	Card or History	96.1		12-23 m	1486	90.5	2005/06	
DTP1	C or H <12 month	93.1		12-23 m	1486	90.5	2005/06	
DTP3	Card or History	86.8		12-23 m	1486	90.5	2005/06	
DTP3	C or H <12 month	82.4		12-23 m	1486	90.5	2005/06	
Pol3	Card or History	87.6		12-23 m	1486	90.5	2005/06	
Pol3	C or H <12 month	83.3		12-23 m	1486	90.5	2005/06	
MCV	Card or History	92.4		12-23 m	1486	90.5	2005/06	
MCV	C or H <12 month	84.9		12-23 m	1486	90.5	2005/06	
HepB	Card or History	79		12-23 m	1486	90.5	2005/06	
HepB	C or H <12 month	75.4		12-23 m	1486	90.5	2005/06	
<b>2001 Gambia Immunization Coverage Survey for 2000</b>								
BCG	n.a.	99.6		12-23 m			2002	
DTP3	n.a.	86.7		12-23 m			2002	
Pol3	n.a.	60.3		12-23 m			2002	
MCV	n.a.	88.7		12-23 m			2002	
HepB	n.a.	91.5		12-23 m			2002	
Hib3	n.a.	86.7		12-23 m			2002	
<b>2000 EPI Cluster Survey 2001</b>								
BCG	Card or History	100		12-23 m		100	2001	
DTP1	Card or History	98.4		12-23 m		100	2001	
DTP3	Card or History	86.5		12-23 m		100	2001	
Pol3	Card or History	90.3		12-23 m		100	2001	
MCV	Card or History	88.7		12-23 m		100	2001	
HepB	Card or History	91.5		12-23 m		100	2001	

# Gambia

## Details Survey Data

### Year Source

Antigen	Confirmation method	% coverage	Compliance with schedule	Age group	Sample size	% cards seen	Survey year	Comments
<b>1999 The Gambia Multiple Indicator Cluster Survey, Draft Report, 2000</b>								
BCG	C or H <12 month	99		12-23 m		91	2000	
DTP1	C or H <12 month	97		12-23 m		91	2000	
DTP3	C or H <12 month	90		12-23 m		91	2000	
Pol3	C or H <12 month	88		12-23 m		91	2000	
MCV	C or H <12 month	88		12-23 m		91	2000	
<b>1995 The Gambia Multiple Indicator Cluster Survey Report - 1996, 1998</b>								
BCG	Card or History	99.8		12-18 m			1996	
BCG	C or H <12 month	96.4		12-23 m			1996	Card denominator
DTP1	Card or History			12-23 m			1996	
DTP1	C or H <12 month			12-23 m			1996	Card denominator
DTP3	Card or History	92.5		12-23 m			1996	
DTP3	C or H <12 month	88.4		12-23 m			1996	Card denominator
Pol3	Card or History	91.8		12-23 m			1996	
Pol3	C or H <12 month	88.2		12-23 m			1996	Card denominator
MCV	Card or History	92.7		12-23 m			1996	
MCV	C or H <12 month	84.9		12-23 m			1996	Card denominator
<b>1991 EPI Coverage Evaluation Survey 1992</b>								
BCG	Card or History	96.8		12-18 m	217	98.6	1992	
DTP1	Card or History	96.8		12-18 m	217	98.6	1992	
DTP3	Card or History	84.8		12-18 m	217	98.6	1992	
Pol3	Card or History	86.2		12-18 m	217	98.6	1992	
MCV	Card or History	83.4		12-18 m	217	98.6	1992	

## Gambia

### 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.

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<sup>1</sup> 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.

## Gambia

<b>Year</b>	<b>PAB coverage estimate (%)</b>
1980	
1981	76
1982	80
1983	83
1984	84
1985	85
1986	81
1987	77
1988	82
1989	83
1990	85
1991	84
1992	83
1993	89
1994	85
1995	92
1996	92
1997	91
1998	94
1999	91
2000	92
2001	90
2002	94
2003	94
2004	94
2005	89
2006	94
2007	90
2008	91