

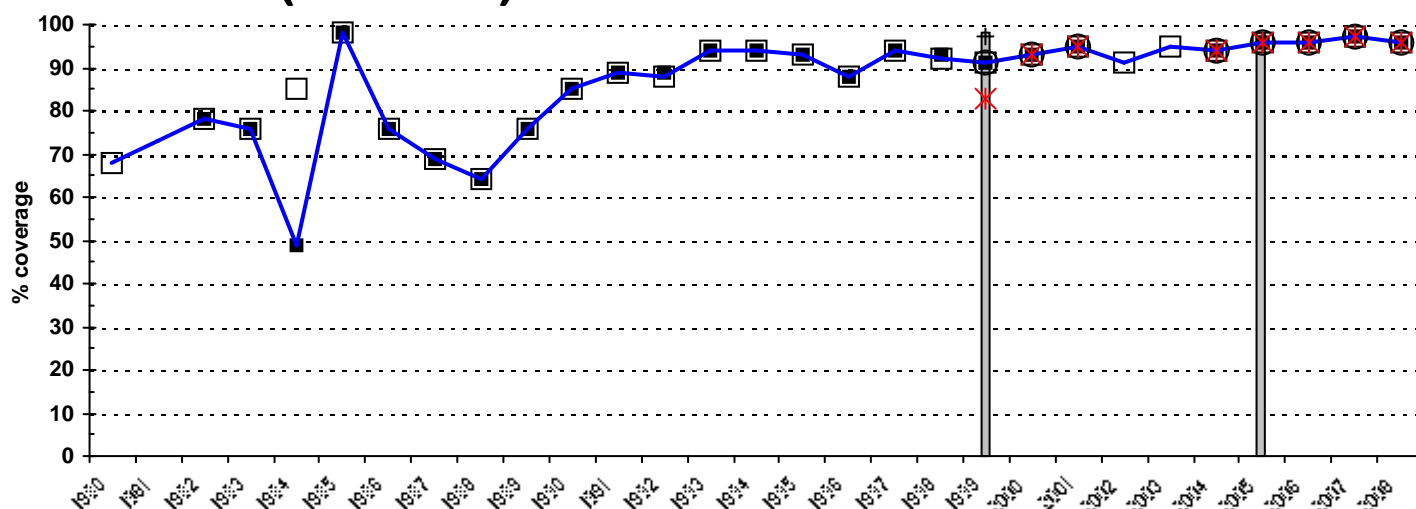
**WHO/UNICEF
Review of National Immunization Coverage
1980-2008**

Guyana

July, 2009

Guyana

BCG (1980-2008)



Description of trend

Trend follows WHO officially reported data supported by survey. Routine coverage fluctuates between 1983 and 1989. During this period programme performance was compromised due to interruption in the supply of vaccines, unavailability of transport for vaccine delivery and la trained personnel.

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	68	68					
1981	73						
1982	78	78	78				
1983	76	76	76				
1984	49	85	49				
1985	98	98	98				
1986	76	76	76				
1987	69	69	69				
1988	64	64	64				
1989	76	76	76				
1990	85	85	85				
1991	89	89	89				
1992	88	88	89				
1993	94	94	94				
1994	94	94	94				
1995	93	93	93				
1996	88	88	88				
1997	94	94	94				
1998	92	92	93				
1999	91	91	91	91	83	98	97
2000	93	93	93	93	93		
2001	95	95	95	95	95		
2002	91	91					
2003	95	95					
2004	94	94	94	94	94		
2005	96	96	96	96	96	98	96
2006	96	96	96	96	96		
2007	97	97	97	97	97		
2008	96	96	96	96	96		

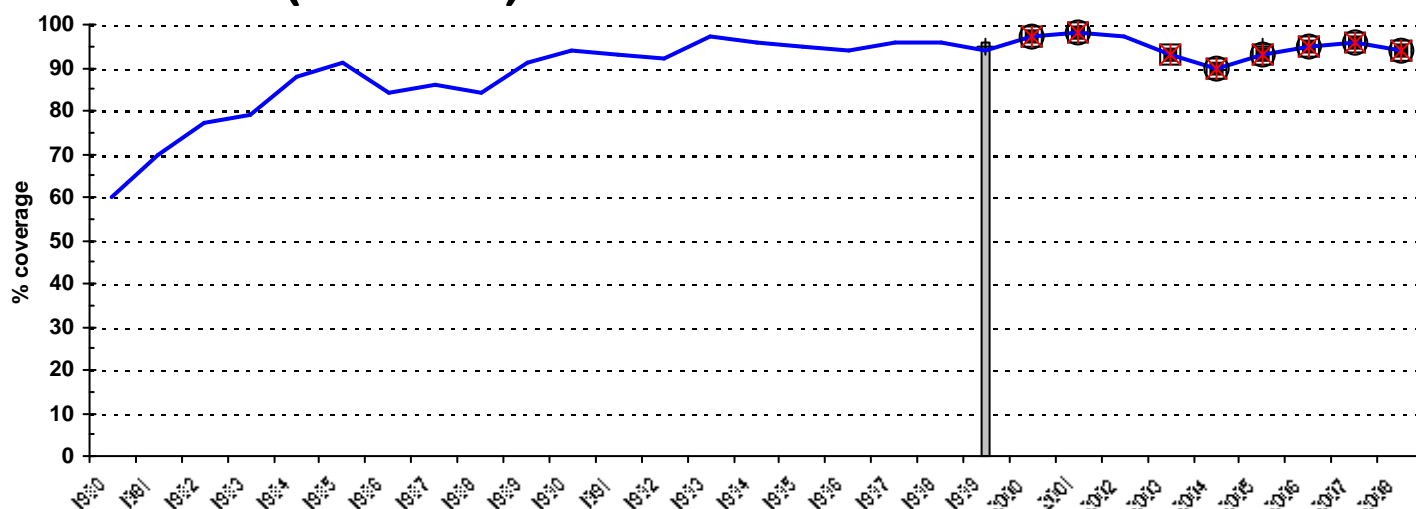
*Prior to 1998 national reports to WHO/UNICEF did not specify whether information was derived from administrative records, surveys or other sources.

**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.

Guyana

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. 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 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	60						
1981	70						
1982	77						
1983	79						
1984	88						
1985	91						
1986	84						
1987	86						
1988	84						
1989	91						
1990	94						
1991	93						
1992	92						
1993	97						
1994	96						
1995	95						
1996	94						
1997	96						
1998	96						
1999	94					96	95
2000	97	97	97	97	97		
2001	98	98	98	98	98		
2002	97						
2003	93	93	93		93		
2004	90	90	90	90	90		
2005	93	93	93	93	93		95
2006	95	95	95	95	95		
2007	96	96	96	96	96		
2008	94	94	94	94	94		

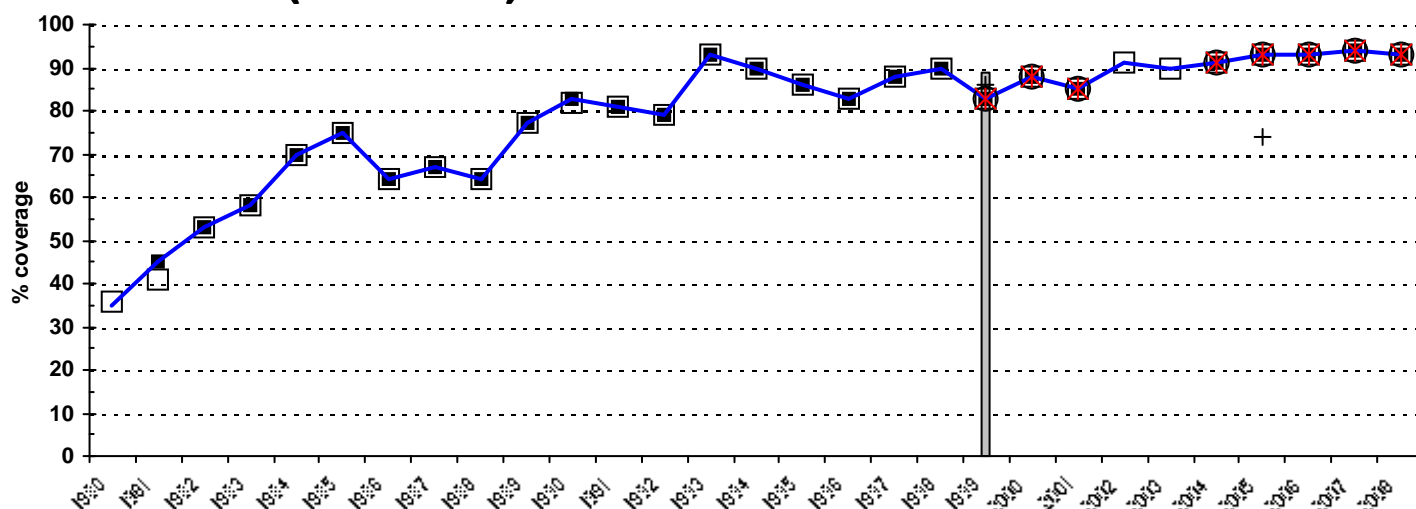
*Prior to 1998 national reports to WHO/UNICEF did not specify whether information was derived from administrative records, surveys or other sources.

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Guyana

DTP3 (1980-2008)



Description of trend

Trend follows WHO officially reported data supported by survey. Routine coverage fluctuates between 1983 and 1989. During this period programme performance was compromised due to interruption in the supply of vaccines, unavailability of transport for vaccine delivery and la trained personnel.

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	35	36					
1981	45	41	45				
1982	53	53	53				
1983	58	58	58				
1984	70	70	70				
1985	75	75	75				
1986	64	64	64				
1987	67	67	67				
1988	64	64	64				
1989	77	77	77				
1990	83	82	83				
1991	81	81	81				
1992	79	79	79				
1993	93	93	93				
1994	90	90	90				
1995	86	86	86				
1996	83	83	83				
1997	88	88	88				
1998	90	90	90				
1999	83	83	83	83	83	89	86
2000	88	88	88	88	88		
2001	85	85	85	85	85		
2002	91	91					
2003	90	90					
2004	91	91	91	91	91		
2005	93	93	93	93	93		74
2006	93	93	93	93	93		
2007	94	94	94	94	94		
2008	93	93	93	93	93		

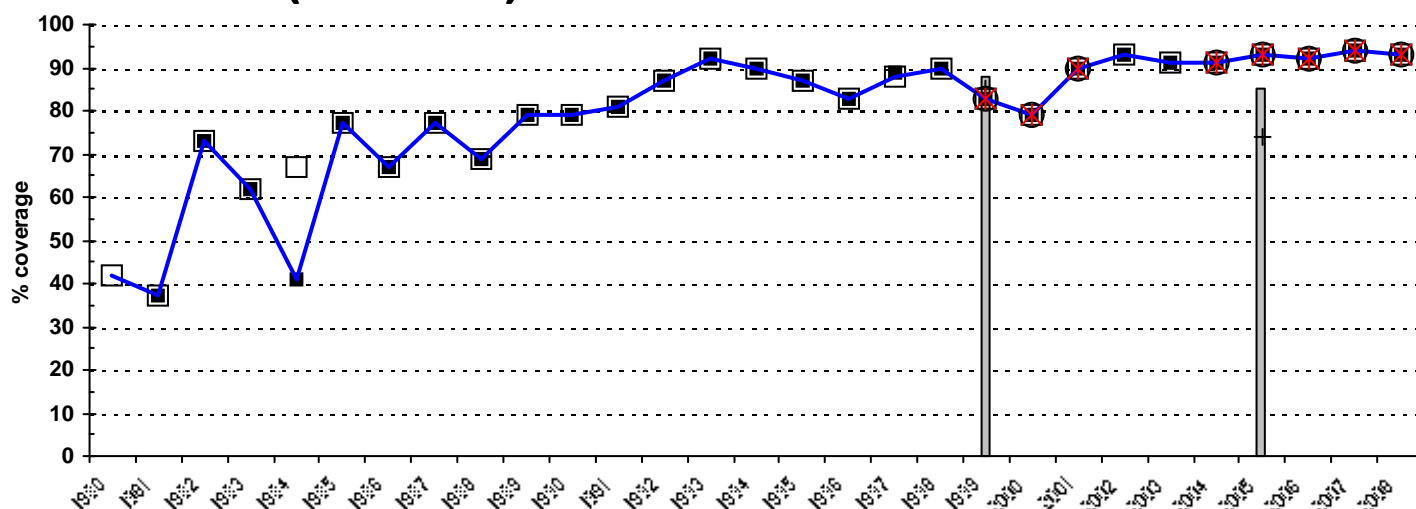
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Guyana

Pol3 (1980-2008)



Description of trend

Trend follows WHO officially reported data supported by survey. Routine coverage fluctuates between 1983 and 1989. During this period programme performance was compromised due to interruption in the supply of vaccines, unavailability of transport for vaccine delivery and lack of trained personnel.

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	42	42					
1981	37	37	37				
1982	73	73	73				
1983	62	62	62				
1984	41	67	41				
1985	77	77	77				
1986	67	67	67				
1987	77	77	77				
1988	69	69	69				
1989	79	79	79				
1990	79	79	79				
1991	81	81	81				
1992	87	87	87				
1993	92	92	92				
1994	90	90	90				
1995	87	87	87				
1996	83	83	83				
1997	88	88	89				
1998	90	90	90				
1999	83	83	83	83	83	88	85
2000	79	79	79	79	79		
2001	90	90	90	90	90		
2002	93	93	93				
2003	91	91	91				
2004	91	91	91	91	91		
2005	93	93	93	93	93	85	74
2006	92	92	92	92	92		
2007	94	94	94	94	94		
2008	93	93	93	93	93		

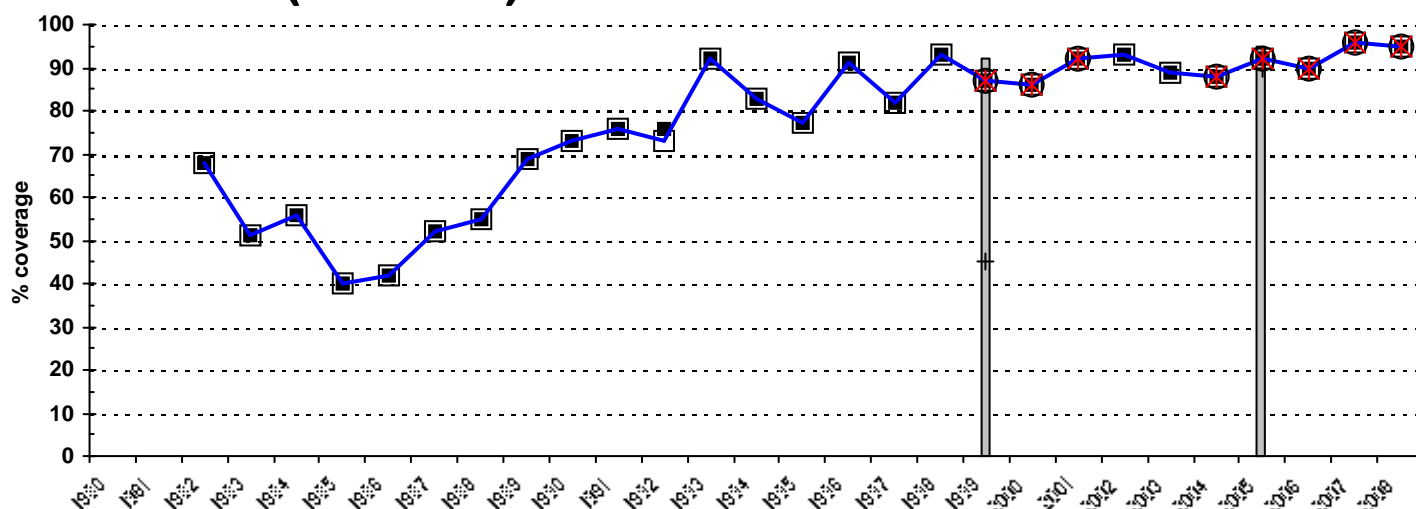
*Prior to 1998 national reports to WHO/UNICEF did not specify whether information was derived from administrative records, surveys or other sources.

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

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Guyana

MCV (1980-2008)



Description of trend

Trend follows WHO officially reported data supported by survey. Routine coverage fluctuates between 1983 and 1989. During this period programme performance was compromised due to interruption in the supply of vaccines, unavailability of transport for vaccine delivery and lack of trained personnel. The 2000/2001 MICS survey reports 45.1% measles containing vaccine coverage at less than one year of age; Guyana administers MMR at 12-23 months of age.

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	68	68	68				
1983	51	51	51				
1984	56	56	56				
1985	40	40	40				
1986	42	42	42				
1987	52	52	52				
1988	55	55	55				
1989	69	69	69				
1990	73	73	73				
1991	76	76	76				
1992	73	73	76				
1993	92	92	92				
1994	83	83	83				
1995	77	77	77				
1996	91	91	91				
1997	82	82	82				
1998	93	93	93				
1999	87	87	87	87	87	92	45
2000	86	86	86	86	86		
2001	92	92	92	92	92		
2002	93	93	93				
2003	89	89	89				
2004	88	88	88	88	88		
2005	92	92	92	92	92	95	90
2006	90	90	90	90	90		
2007	96	96	96	96	96		
2008	95	95	95	95	95		

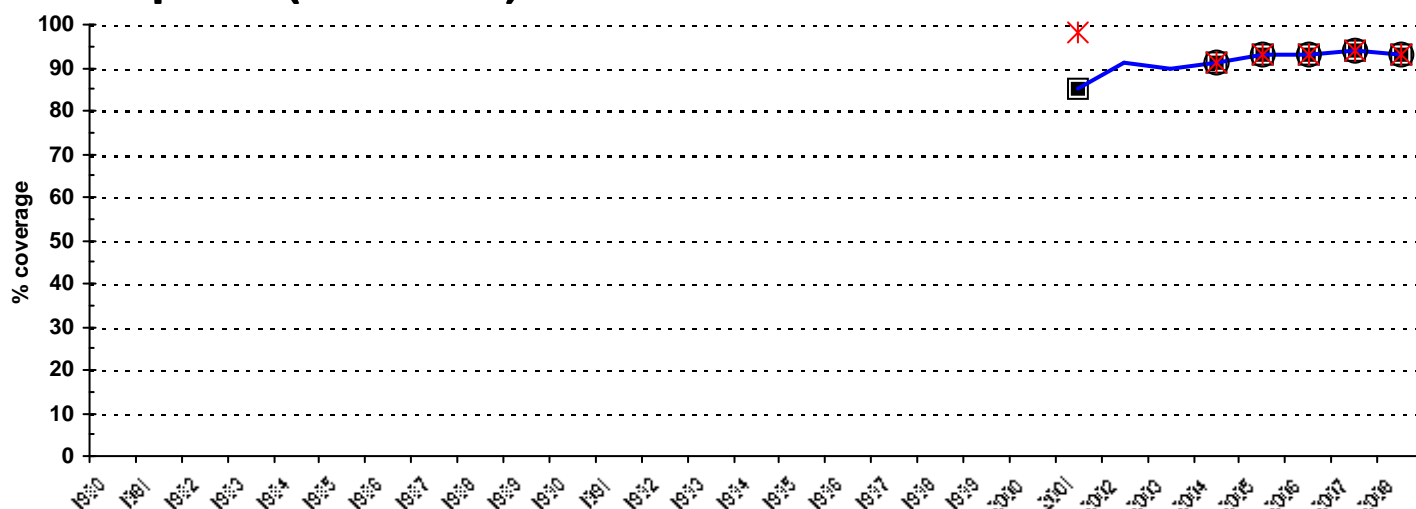
*Prior to 1998 national reports to WHO/UNICEF did not specify whether information was derived from administrative records, surveys or other sources.

**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.

Guyana

HepB3 (1980-2008)



Description of trend

Pentavalent DTP, hepatitis B and Hib vaccine introduced in 2001. From 2004 onward the trend follows officially reported data. HepB3 estimate based on reported Pentavalent vaccine 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	85	85	85		98		
2002	91						
2003	90						
2004	91	91	91	91	91		
2005	93	93	93	93	93		
2006	93	93	93	93	93		
2007	94	94	94	94	94		
2008	93	93	93	93	93		

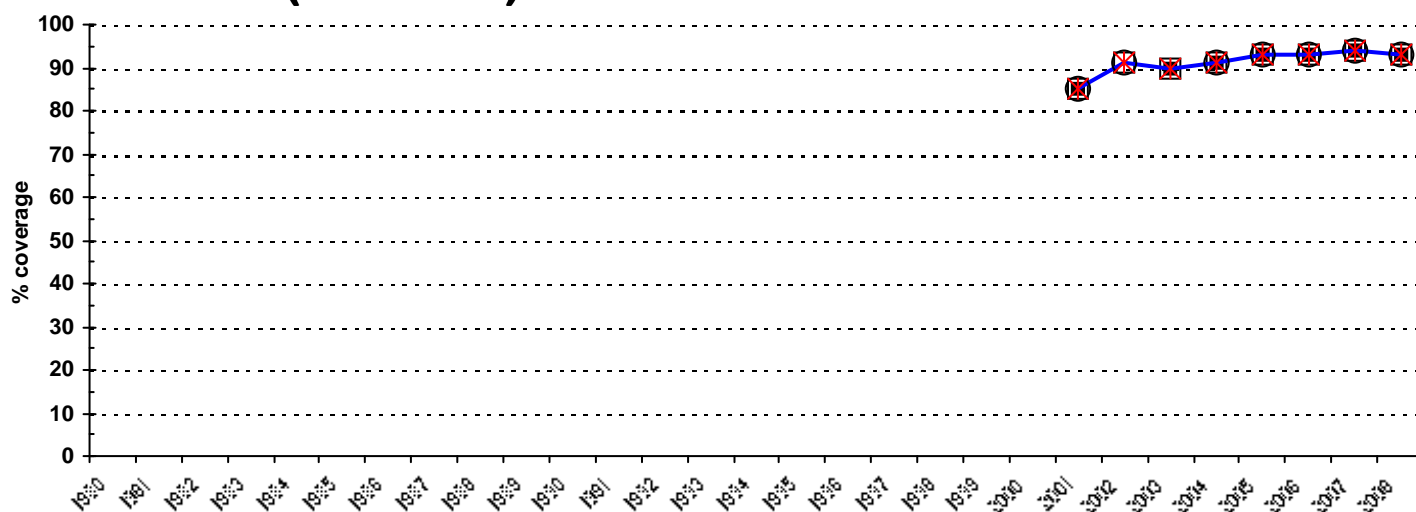
*Prior to 1998 national reports to WHO/UNICEF did not specify whether information was derived from administrative records, surveys or other sources.

**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.

Guyana

Hib3 (1980-2008)



Description of trend

Pentavalent DTP, Hepatitis B and Hib vaccination introduced in 2001. Trend follows WHO officially 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							
1999							
2000							
2001	85	85	85	85	85		
2002	91	91	91	91	91		
2003	90	90	90	90	90		
2004	91	91	91	91	91		
2005	93	93	93	93	93		
2006	93	93	93	93	93		
2007	94	94	94	94	94		
2008	93	93	93	93	93		

*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.

Guyana

Details Survey Data

Year Source

Antigen	Confirmation method	% coverage	Compliance with schedule	Age group	Sample size	% cards seen	Survey year	Comments
2005 Guyana Multiple Indicator Cluster Survey 2006								
BCG	Card or History	98.1		18-29 m	488	75.1	2006	
BCG	C or H <12 month	96		18-29 m	488	75.1	2006	
DTP1	Card or History			18-29 m	488	75.1	2006	DTP results compromised; not used in estimation.
DTP1	C or H <12 month	95		18-29 m	488	75.1	2006	DTP results compromised; not used in estimation.
DTP3	Card or History			18-29 m	488	75.1	2006	DTP results compromised; not used in estimation.
DTP3	C or H <12 month	74		18-29 m	488	75.1	2006	DTP results compromised; not used in estimation.
Pol3	Card or History	85		18-29 m	488	75.1	2006	
Pol3	C or H <12 month	74.2		18-29 m	488	75.1	2006	
MCV	Card or History	95.4		18-29 m	488	75.1	2006	
MCV	C or H <12 month	89.7		18-29 m	488	75.1	2006	
PAB	n.a.	43.7		CBAW	741		2006	

1999 Multiple Indicator Cluster Survey Guyana 2000, 2001

BCG	Card or History	97.9		12-23 m	16442	88.7	2000	
BCG	C or H <12 month	97.2		12-23 m	16442	88.7	2000	
DTP1	Card or History	95.5		12-23 m	16442	88.7	2000	
DTP1	C or H <12 month	94.8		12-23 m	16442	88.7	2000	
DTP3	Card or History	88.8		12-23 m	16442	88.7	2000	
DTP3	C or H <12 month	86		12-23 m	16442	88.7	2000	
Pol3	Card or History	87.6		12-23 m	16442	88.7	2000	
Pol3	C or H <12 month	85		12-23 m	16442	88.7	2000	
MCV	Card or History	91.7		12-23 m	16442	88.7	2000	
MCV	C or H <12 month	45.1		12-23 m	16442	88.7	2000	

Guyana

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.

Guyana

Year	PAB coverage estimate (%)
1980	
1981	
1982	
1983	
1984	
1985	
1986	
1987	42
1988	48
1989	53
1990	56
1991	60
1992	63
1993	66
1994	68
1995	71
1996	73
1997	76
1998	78
1999	80
2000	82
2001	83
2002	83
2003	84
2004	85
2005	91
2006	92
2007	91
2008	90