

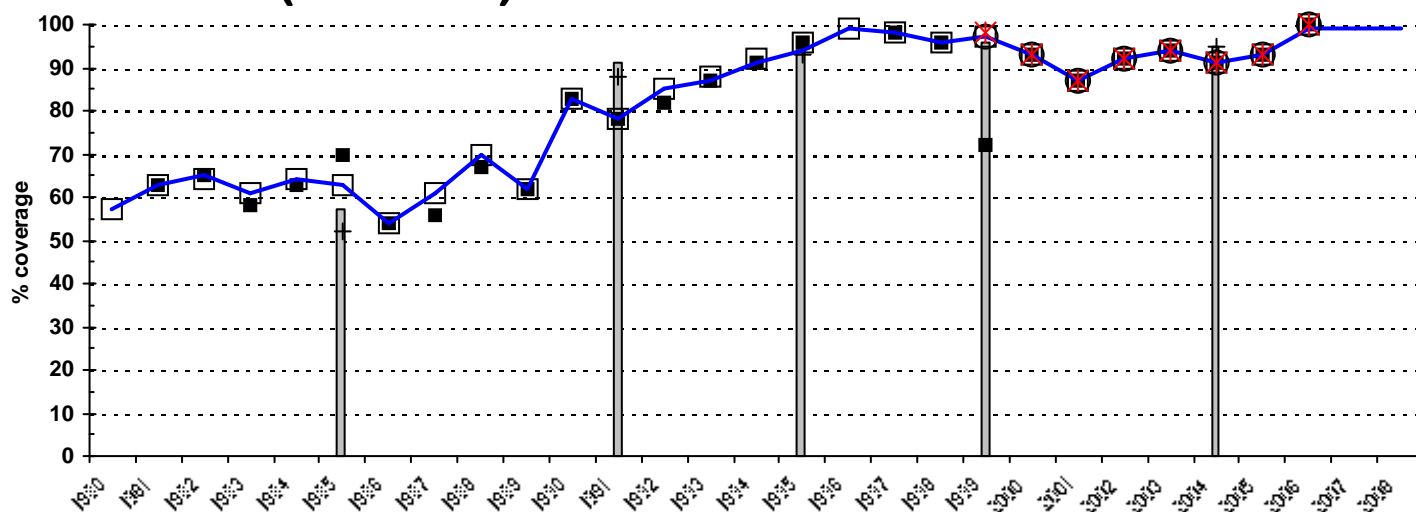
**WHO/UNICEF
Review of National Immunization Coverage
1980-2008**

Peru

July, 2009

Peru

BCG (1980-2008)



Description of trend

Trend follows officially reported data, supported by surveys. Decline in 2004 the result of a 2-month stock out. Decline in 2005 the result of a 1-month national stock out. Source for estimates of target population is the National Statistical Office. Preliminary estimates from the 2008 census suggest a smaller birth cohort; estimates for 2008 are based on projections from previous census.

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	63	63	63				
1982	65	64	65				
1983	61	61	58				
1984	64	64	63				
1985	63	63	70			57	52
1986	54	54	54				
1987	61	61	56				
1988	70	70	67				
1989	62	62	62				
1990	83	83	83				
1991	78	78	78			91	88
1992	85	85	82				
1993	87	88	87				
1994	91	92	91				
1995	94	96	96			94	93
1996	99	99					
1997	98	98	98				
1998	96	96	96				
1999	97	97	72	97	98	96	
2000	93	93	93	93	93		
2001	87	87	87	87	87		
2002	92	92	92	92	92		
2003	94	94	94	94	94		
2004	91	91	91	91	91	95	95
2005	93	93	93	93	93		
2006	99	100	100	100	100		
2007	99	105	105	105	105		
2008	99	108	108	108	108		

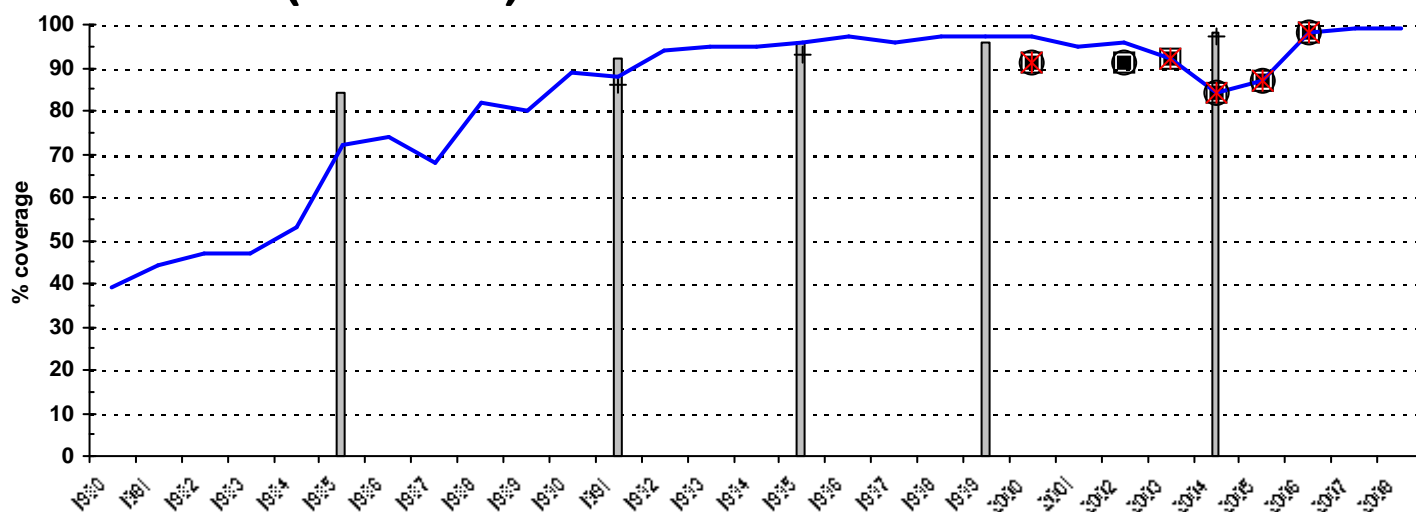
*Prior to 1998 national reports to WHO/UNICEF did not specify whether information was derived from administrative records, surveys or other sources.

**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.

Peru

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. DTP1 estimates from 2001 are based on these reports. For other years the estimates are 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. Source for estimates of target population the National Statistical Office. Preliminary estimates from the 2008 census suggest a smaller birth cohort; estimates for 2008 are based on projections from previous census.

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	39						
1981	44						
1982	47						
1983	47						
1984	53						
1985	72					84	
1986	74						
1987	68						
1988	82						
1989	80						
1990	89						
1991	88					92	86
1992	94						
1993	95						
1994	95						
1995	96					96	93
1996	97						
1997	96						
1998	97						
1999	97					96	
2000	97	91	91	91	91		
2001	95						
2002	96	91	91	91			
2003	92	92	92		92		
2004	84	84	84	84	84	98	97
2005	87	87	87	87	87		
2006	98	98	98	98	98		
2007	99	113	113	113	113		
2008	99	110	110	110	110		

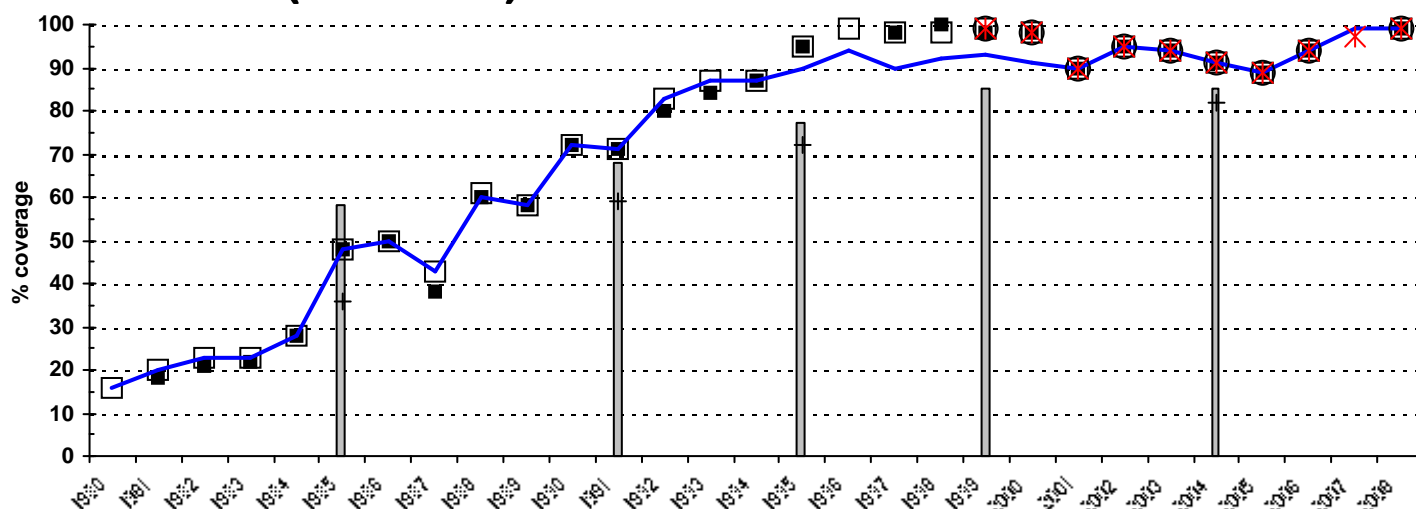
*Prior to 1998 national reports to WHO/UNICEF did not specify whether information was derived from administrative records, surveys or other sources.

**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.

Peru

DTP3 (1980-2008)



Description of trend

Trend follows officially reported data supported by survey until 1994. From 1994-2000 the coverage level is established by survey data after adjusting for recall bias with trends determined by reported data. Estimates from 2001 are based on nationally reported data supported by survey results adjusted for recall bias. The drop-out rate between BCG and DTP3 is estimated to be approximately 5%. Decline in 2005 is the result one-month national stock out. Source for estimates of target population is the National Statistical Office. Preliminary estimates from the 2008 census suggest a smaller birth cohort; estimates for 2008 are based on projections from previous census.

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	16	16					
1981	20	20	18				
1982	23	23	21				
1983	23	23	22				
1984	28	28	28				
1985	48	48	48			58	36
1986	50	50	50				
1987	43	43	38				
1988	60	61	60				
1989	58	58	58				
1990	72	72	72				
1991	71	71	71			68	59
1992	83	83	80				
1993	87	87	84				
1994	87	87	87				
1995	90	95	95			77	72
1996	94	99					
1997	90	98	98				
1998	92	98	100				
1999	93	99	98	99	99	85	
2000	91	98	98	98	98		
2001	90	90	90	90	90		
2002	95	95	95	95	95		
2003	94	94	94	94	94		
2004	91	91	91	91	91	85	82
2005	89	89	89	89	89		
2006	94	94	94	94	94		
2007	99	101	101	101	97		
2008	99	99	99	99	99		

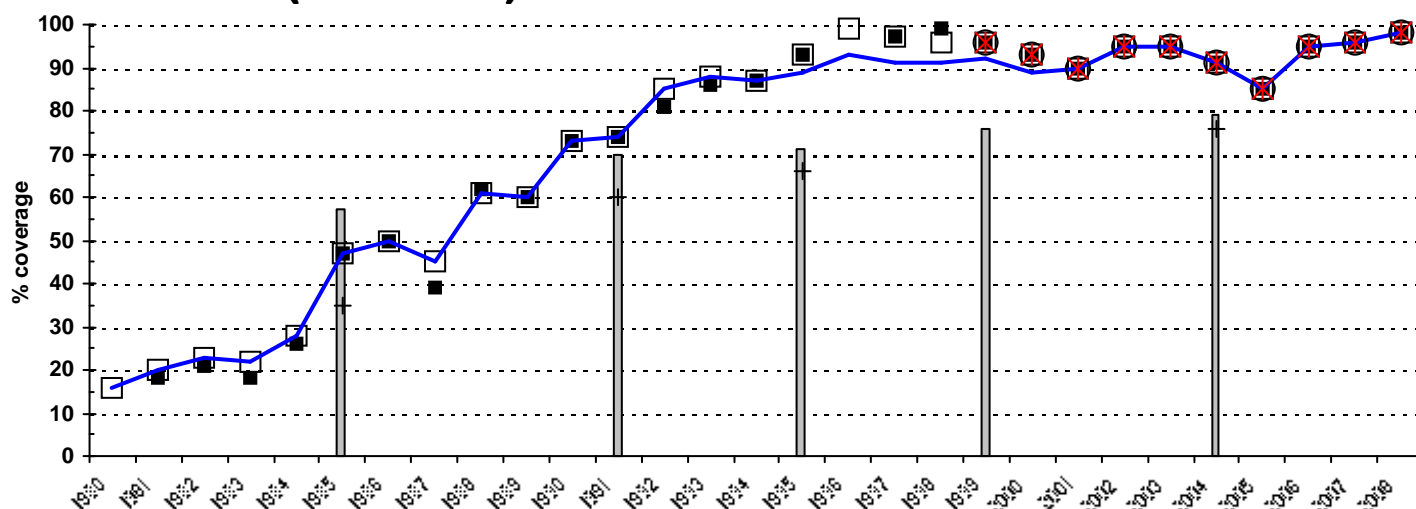
*Prior to 1998 national reports to WHO/UNICEF did not specify whether information was derived from administrative records, surveys or other sources.

**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.

Peru

Pol3 (1980-2008)



Description of trend

Trend follows officially reported data, supported by survey results until 1994. From 1999-2004 the coverage level is established by survey data (1996) after adjusting for recall bias with trends determined by reported data. Following 2001 estimates are based on reported data supported by survey results adjusted for recall bias. The drop-out rate between BCG and POL3 is estimated to be approximately 5%. Decline in 2004 is the result of a 2-month stock-out. Decline in 2005 is the result of a one-month national stock-out. Source for estimates of target population is the National Statistical Office. Preliminary estimates from the 2008 census suggest a smaller birth cohort; estimates for 2008 are based on projections from previous census.

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	16	16					
1981	20	20	18				
1982	23	23	21				
1983	22	22	18				
1984	28	28	26				
1985	47	47	47			57	35
1986	50	50	50				
1987	45	45	39				
1988	61	61	62				
1989	60	60	60				
1990	73	73	73				
1991	74	74	74			70	60
1992	85	85	81				
1993	88	88	86				
1994	87	87	87				
1995	89	93	93			71	66
1996	93	99					
1997	91	97	97				
1998	91	96	99				
1999	92	96	96	96	96	76	
2000	89	93	93	93	93		
2001	90	90	90	90	90		
2002	95	95	95	95	95		
2003	95	95	95	95	95		
2004	91	91	91	91	91	79	76
2005	85	85	85	85	85		
2006	95	95	95	95	95		
2007	96	96	96	96	96		
2008	98	98	98	98	98		

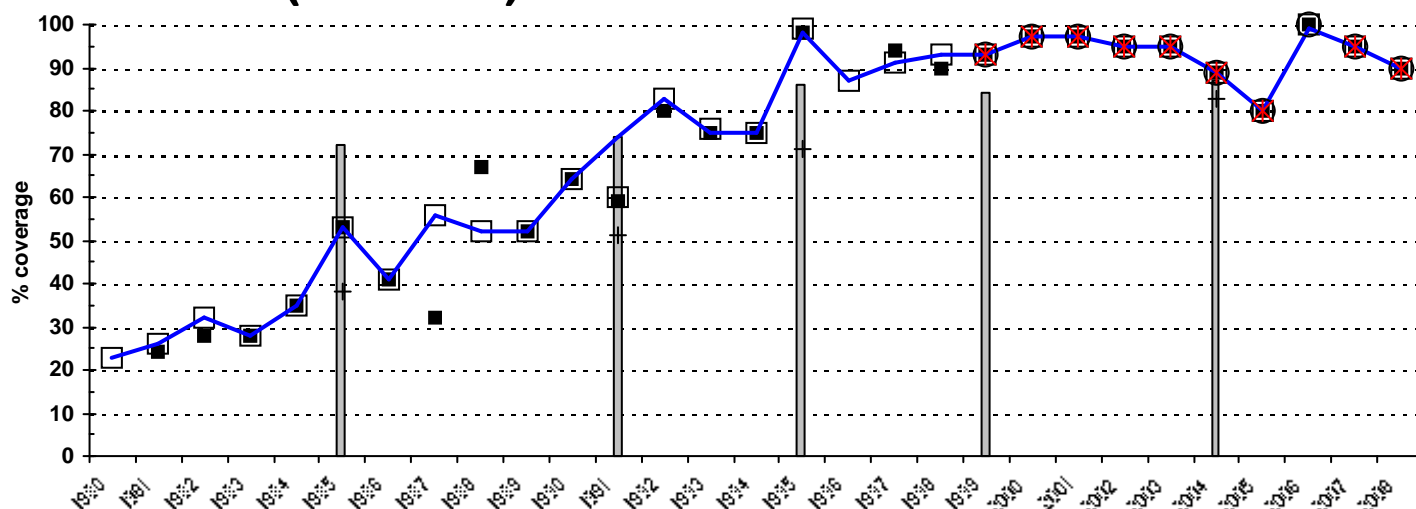
*Prior to 1998 national reports to WHO/UNICEF did not specify whether information was derived from administrative records, surveys or other sources.

**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.

Peru

MCV (1980-2008)



Description of trend

Trend follows officially reported data supported by survey results. The peak in 1995 (to 98%) is due to intensive measles elimination activities. Decline in 2005 is the result of a two-month national stock-out. Source for estimates of target population is the National Statistical Office. Preliminary estimates from the 2008 census suggest a smaller birth cohort; estimates for 2008 based on projections from previous census.

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	23	23					
1981	26	26	24				
1982	32	32	28				
1983	28	28	28				
1984	35	35	35				
1985	53	53	53			72	38
1986	41	41	41				
1987	56	56	32				
1988	52	52	67				
1989	52	52	52				
1990	64	64	64				
1991	74	60	59			74	51
1992	83	83	80				
1993	75	76	75				
1994	75	75	75				
1995	98	99	98			86	71
1996	87	87					
1997	91	91	94				
1998	93	93	90				
1999	93	93	93	93	93	84	
2000	97	97	97	97	97		
2001	97	97	97	97	97		
2002	95	95	95	95	95		
2003	95	95	95	95	95		
2004	89	89	89	89	89	87	83
2005	80	80	80	80	80		
2006	99	100	100	100	102		
2007	95	95	95	95	95		
2008	90	90	90	90	90		

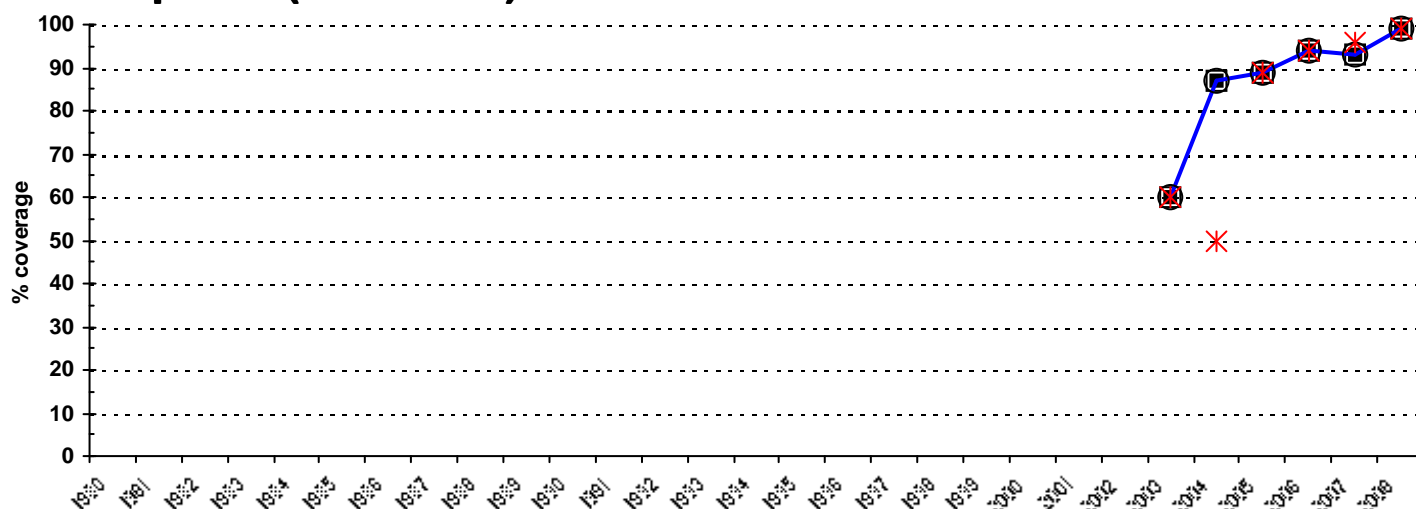
*Prior to 1998 national reports to WHO/UNICEF did not specify whether information was derived from administrative records, surveys or other sources.

**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.

Peru

HepB3 (1980-2008)



Description of trend

Hepatitis B introduced in 2003 nationally. Decline in 2005 the result of a one-month national stock-out. Source for estimates of target popula is the National Statistical Office. Preliminary estimates from the 2008 census suggest a smaller birth cohort; estimates for 2008 based on projections from previous census.

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	60	60	60	60	60		
2004	87	87	87	87	50		
2005	89	89	89	89	89		
2006	94	94	94	94	94		
2007	93	93	93	93	96		
2008	99	99	99	99	99		

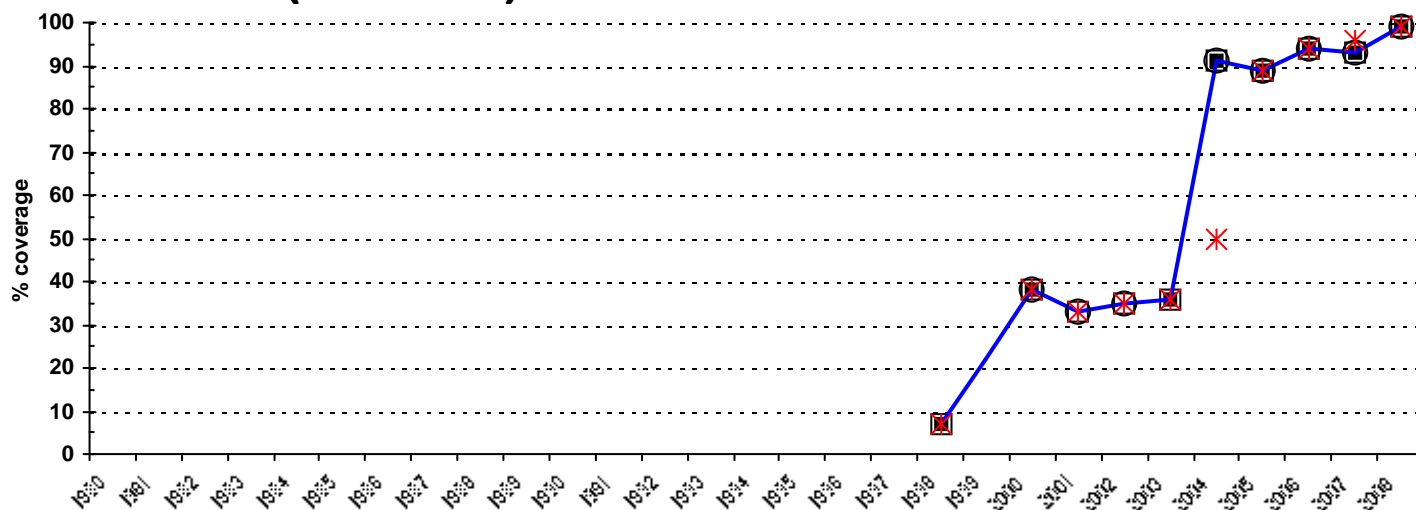
*Prior to 1998 national reports to WHO/UNICEF did not specify whether information was derived from administrative records, surveys or other sources.

**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.

Peru

Hib3 (1980-2008)



Description of trend

Hib 3 introduced in 1999 for part of the country. Decline in 2005 the result of a one-month national stock out. Source for estimates of target population is the National Statistical Office. Preliminary estimates from the 2008 census suggest a smaller birth cohort; estimates for 2008 are based on projections from previous census.

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	7	7	7		7		
1999	22						
2000	38	38	38	38	38		
2001	33	33		33	33		
2002	35	35		35	35		
2003	36	36	36		36		
2004	91	91	91	91	50		
2005	89	89	89	89	89		
2006	94	94	94	94	94		
2007	93	93	93	93	96		
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.

Peru

Details Survey Data

Year Source

Antigen	Confirmation method	% coverage	Compliance with schedule	Age group	Sample size	% cards seen	Survey year	Comments
2004 Peru Encuesta Demográfica y de Salud Familiar ENDES Continua 2004-2005								
BCG	Card or History	95.1		18-29 m	859	68.3	2005	
BCG	C or H <12 month	94.7		18-29 m	859	68.3	2005	
DTP1	Card or History	97.8		18-29 m	859	68.3	2005	
DTP1	C or H <12 month	96.9		18-29 m	859	68.3	2005	
DTP3	Card or History	85.4		18-29 m	859	68.3	2005	
DTP3	C or H <12 month	81.9		18-29 m	859	68.3	2005	
Pol3	Card or History	79.2		18-29 m	859	68.3	2005	
Pol3	C or H <12 month	76.4		18-29 m	859	68.3	2005	
MCV	Card or History	87.4		18-29 m	859	68.3	2005	
MCV	C or H <12 month	83.2		18-29 m	859	68.3	2005	

2002 Perú Encuesta Demográfica y de Salud Familiar, ENDES Continua 2004

BCG	History	32.5		18-29 m	455	66.6	2003/2004	Age group changed from 12-23 m to 18-29 m due to changes in measles vaccine schedule.
BCG	Card or history	94.5		18-29 m	455	66.6	2003/2004	Age group changed from 12-23 m to 18-29 m due to changes in measles vaccine schedule.
BCG	Card	62		18-29 m	455	66.6	2003/2004	Age group changed from 12-23 m to 18-29 m due to changes in measles vaccine schedule.
BCG	C or H <18 month	94		18-29 m	455	66.6	2003/2004	Age group changed from 12-23 m to 18-29 m due to changes in measles vaccine schedule.
DTP1	History	31.7		18-29 m	455	66.6	2003/2004	Age group changed from 12-23 m to 18-29 m due to changes in measles vaccine schedule.
DTP1	Card or history	97.2		18-29 m	455	66.6	2003/2004	Age group changed from 12-23 m to 18-29 m due to changes in measles vaccine schedule.
DTP1	Card	65.5		18-29 m	455	66.6	2003/2004	Age group changed from 12-23 m to 18-29 m due to changes in measles vaccine schedule.
DTP1	C or H <18 month	95.8		18-29 m	455	66.6	2003/2004	Age group changed from 12-23 m to 18-29 m due to changes in measles vaccine schedule.
DTP3	History	22.9		18-29 m	455	66.6	2003/2004	Age group changed from 12-23 m to 18-29 m due to changes in measles vaccine schedule.
DTP3	Card or history	86.6		18-29 m	455	66.6	2003/2004	Age group changed from 12-23 m to 18-29 m due to changes in measles vaccine schedule.
DTP3	Card	63.8		18-29 m	455	66.6	2003/2004	Age group changed from 12-23 m to 18-29 m due to changes in measles vaccine schedule.
DTP3	C or H <18 month	82.8		18-29 m	455	66.6	2003/2004	Age group changed from 12-23 m to 18-29 m due to changes in measles vaccine schedule.
Pol3	History	16.4		18-29 m	455	66.6	2003/2004	Age group changed from 12-23 m to 18-29 m due to changes in measles vaccine schedule.
Pol3	Card or history	81		18-29 m	455	66.6	2003/2004	Age group changed from 12-23 m to 18-29 m due to changes in measles vaccine schedule.
Pol3	Card	64.6		18-29 m	455	66.6	2003/2004	Age group changed from 12-23 m to 18-29 m due to changes in measles vaccine schedule.
Pol3	C or H <18 month	77.5		18-29 m	455	66.6	2003/2004	Age group changed from 12-23 m to 18-29 m due to changes in measles vaccine schedule.
MCV	History	30		18-29 m	455	66.6	2003/2004	Age group changed from 12-23 m to 18-29 m due to changes in measles vaccine schedule.
MCV	Card or history	90		18-29 m	455	66.6	2003/2004	Age group changed from 12-23 m to 18-29 m due to changes in measles vaccine schedule.
MCV	Card	60		18-29 m	455	66.6	2003/2004	Age group changed from 12-23 m to 18-29 m due to changes in measles vaccine schedule.
MCV	C or H <18 month	84.8		18-29 m	455	66.6	2003/2004	Age group changed from 12-23 m to 18-29 m due to changes in measles vaccine schedule.

1999 Peru, Encuesta Demográfica y de Salud Familiar 2000, 2001

BCG	History	39.6		18-29 m	2353	58.1	2000	
BCG	Card or History	96.2		12-23 m	2353	58.1	2000	18-29 m
BCG	Card or History	94.2	Valid	18-23 m	1187	60.3	2000	
BCG	Card	56.6		18-29 m	2353	58.1	2000	

Peru

Details Survey Data

Year Source

Antigen	Confirmation method	% coverage	Compliance with schedule	Age group	Sample size	% cards seen	Survey year	Comments
DTP1	History	38.8		18-29 m	2353	58.1	2000	
DTP1	Card or History	96.5		12-23 m	2353	58.1	2000	18-29 m
DTP1	Card or History	95.2	Valid	18-23 m	1187	60.3	2000	
DTP1	Card	57.7		18-29 m	2353	58.1	2000	
DTP3	History	29.1		18-29 m	2353	58.1	2000	
DTP3	Card or History	84.7		12-23 m	2353	58.1	2000	18-29 m
DTP3	Card or History	80.2	Valid	18-23 m	1187	60.3	2000	
DTP3	Card	55.5		18-29 m	2353	58.1	2000	
Pol3	History	22		18-29 m	2353	58.1	2000	
Pol3	Card or History	76.4		12-23 m	2353	58.1	2000	18-29 m
Pol3	Card or History	72.4	Valid	18-23 m	1187	60.3	2000	
Pol3	Card	54.4		18-29 m	2353	58.1	2000	
MCV	History	33.6		18-29 m	2353	58.1	2000	
MCV	Card or History	84.4		12-23 m	2353	58.1	2000	18-29 m
MCV	Card or History	77	Valid	18-23 m	1187	60.3	2000	
MCV	Card	50.8		18-29 m	2353	58.1	2000	

1995 Peru, Encuesta Demográfica y de Salud Familiar 1996, 1997

BCG	Card or History	94.3		12-23 m	2973	52.6	1996	
BCG	C or H <12 month	92.7		12-23 m	2973	52.6	1996	
BCG	C or H <12 month	93.1		24-35 m	2943	46.2	1996	
BCG	C or H <12 month	88.3		36-47 m	3016	37.8	1996	
BCG	C or H <12 month	85.9		48-59 m	3085	32	1996	
DTP1	Card or History	95.7		12-23 m	2973	52.6	1996	
DTP1	C or H <12 month	93.1		12-23 m	2973	52.6	1996	
DTP1	C or H <12 month	90.2		24-35 m	2943	46.2	1996	
DTP1	C or H <12 month	86.2		36-47 m	3016	37.8	1996	
DTP1	C or H <12 month	83.4		48-59 m	3085	32	1996	
DTP3	Card or History	77		12-23 m	2973	52.6	1996	
DTP3	C or H <12 month	71.9		12-23 m	2973	52.6	1996	
DTP3	C or H <12 month	68.2		24-35 m	2943	46.2	1996	
DTP3	C or H <12 month	62.3		36-47 m	3016	37.8	1996	
DTP3	C or H <12 month	60.2		48-59 m	3085	32	1996	
Pol3	Card or History	71.4		12-23 m	2973	52.6	1996	
Pol3	C or H <12 month	66.4		12-23 m	2973	52.6	1996	
Pol3	C or H <12 month	62.4		24-35 m	2943	46.2	1996	
Pol3	C or H <12 month	54.3		36-47 m	3016	37.8	1996	
Pol3	C or H <12 month	50.8		48-59 m	3085	32	1996	
MCV	Card or History	85.8		12-23 m	2973	52.6	1996	
MCV	C or H <12 month	71.4		12-23 m	2973	52.6	1996	
MCV	C or H <12 month	68.6		24-35 m	2943	46.2	1996	
MCV	C or H <12 month	63.6		36-47 m	3016	37.8	1996	
MCV	C or H <12 month	61.9		48-59 m	3085	32	1996	

1991 Peru, Encuesta Demográfica y de Salud Familiar 1991/1992

BCG	Card or History	90.6		12-23 m	1509	51	1991/92	
BCG	C or H <12 month	88.3		12-23 m	1509	51	1991/92	
BCG	C or H <12 month	83.3		24-35 m	1554	46	1991/92	
BCG	C or H <12 month	83.3		36-47 m	1705	44.1	1991/92	
BCG	C or H <12 month	80.2		48-59 m	1607	37.7	1991/92	
DTP1	Card or History	92.1		12-23 m	1509	51	1991/92	
DTP1	C or H <12 month	86.5		12-23 m	1509	51	1991/92	
DTP1	C or H <12 month	82.1		24-35 m	1554	46	1991/92	
DTP1	C or H <12 month	83.6		36-47 m	1705	44.1	1991/92	

Peru

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	76.2		48-59 m	1607	37.7	1991/92	
DTP3	Card or History	68.1		12-23 m	1509	51	1991/92	
DTP3	C or H <12 month	58.9		12-23 m	1509	51	1991/92	
DTP3	C or H <12 month	56.2		24-35 m	1554	46	1991/92	
DTP3	C or H <12 month	56		36-47 m	1705	44.1	1991/92	
DTP3	C or H <12 month	50.9		48-59 m	1607	37.7	1991/92	
Pol3	Card or History	69.9		12-23 m	1509	51	1991/92	
Pol3	C or H <12 month	60		12-23 m	1509	51	1991/92	
Pol3	C or H <12 month	57.7		24-35 m	1554	46	1991/92	
Pol3	C or H <12 month	56.2		36-47 m	1705	44.1	1991/92	
Pol3	C or H <12 month	51.1		48-59 m	1607	37.7	1991/92	
MCV	Card or History	74		12-23 m	1509	51	1991/92	
MCV	C or H <12 month	51.2		12-23 m	1509	51	1991/92	
MCV	C or H <12 month	47.6		24-35 m	1554	46	1991/92	
MCV	C or H <12 month	47.7		36-47 m	1705	44.1	1991/92	
MCV	C or H <12 month	46.4		48-59 m	1607	37.7	1991/92	

1985 Demographic and Health Surveys Comparative Studies No. 1, Immunization, Boerma et al., Institute for Resource Development/Macro Systems, 1990

BCG	Card or History	57		12-23 m	526	43	1986	Percentage card according to Comparative Studies No. 22
BCG	C or H <12 month	52		12-23 m	526	43	1986	
DTP1	Card or History	84		12-23 m	526	43	1986	
DTP1	C or H <12 month			12-23 m	526	43	1986	
DTP3	Card or History	58		12-23 m	526	43	1986	
DTP3	C or H <12 month	36		12-23 m	526	43	1986	
Pol3	Card or History	57		12-23 m	526	43	1986	
Pol3	C or H <12 month	35		12-23 m	526	43	1986	
MCV	Card or History	72		12-23 m	526	43	1986	
MCV	C or H <12 month	38		12-23 m	526	43	1986	

Peru

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.

Peru

Year	PAB coverage estimate (%)
1980	
1981	4
1982	4
1983	5
1984	5
1985	5
1986	5
1987	6
1988	9
1989	14
1990	19
1991	24
1992	31
1993	38
1994	44
1995	50
1996	56
1997	62
1998	64
1999	65
2000	66
2001	62
2002	62
2003	63
2004	65
2005	65
2006	66
2007	67
2008	67