

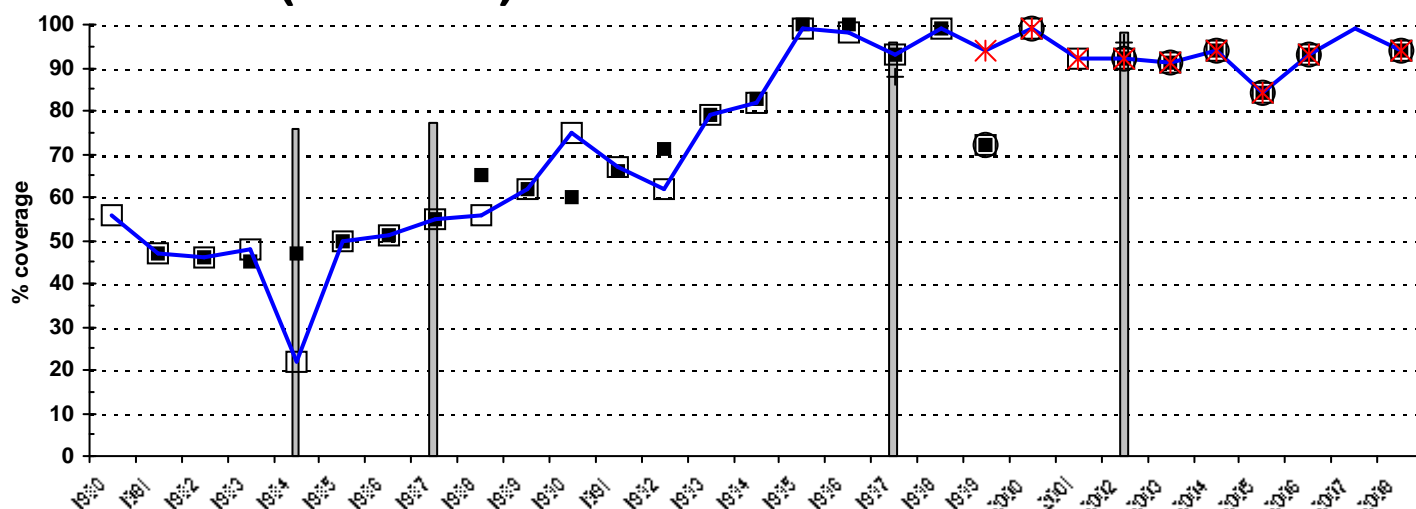
**WHO/UNICEF
Review of National Immunization Coverage
1980-2008**

El Salvador

July, 2009

El Salvador

BCG (1980-2008)



Description of trend

Trend follows officially reported data. A census was conducted in 2007 and recent reported coverage levels are preliminary, pending the finalization of census 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	56	56	47				
1981	47	47	46				
1982	46	46	45				
1983	48	48	47				
1984	22	22	47			76	
1985	50	50	50				
1986	51	51	51				
1987	55	55	55			77	
1988	56	56	65				
1989	62	62	62				
1990	75	75	60				
1991	67	67	66				
1992	62	62	71				
1993	79	79	79				
1994	82	82	83				
1995	99	99	100				
1996	98	98	100				
1997	93	93	93			96	88
1998	99	99	99				
1999	94	72	72	72	94		
2000	99	99		99	99		
2001	92	92			92		
2002	92	92	92	92	92	98	96
2003	91	91	91	91	91		
2004	94	94	94	94	94		
2005	84	84	84	84	84		
2006	93	93	93	93	93		
2007	99	103	103	103	103		
2008	94	94	94	94	94		

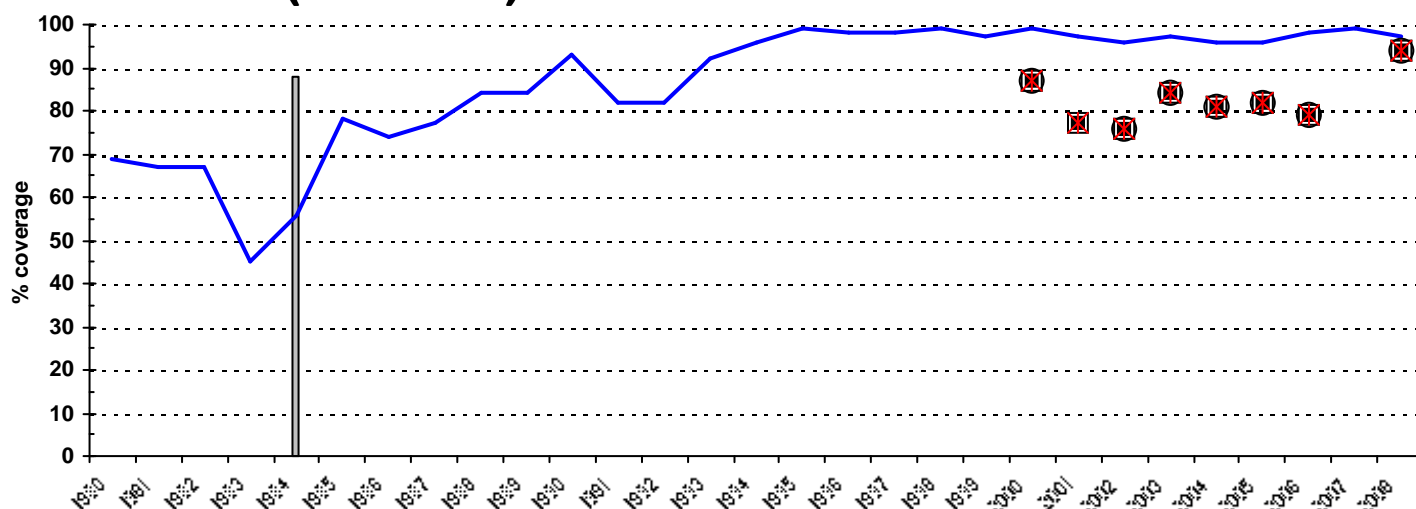
*Prior to 1998 national reports to WHO/UNICEF did not specify whether information was derived from administrative records, surveys or other sources.

**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.

El Salvador

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. Official reported data from 2000 to 2003 and 2006 are lower than reported DTP3. The estimates from 1980 to 2003 and 2006 are derived from the WHO/UNICEF estimates of DTP3 and the relationship between the levels of DTP3 coverage and the drop-out between DTF and DTP3. This relationship results from an analysis of 282 surveys conducted in 101 countries which were published between 1980 and 2000. The estimates from 2004 and 2005 onward are based on the reported data. A census was conducted in 2007 and recent reported coverage are preliminary, pending the finalization of census 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						
1981	67						
1982	67						
1983	45						
1984	56					88	
1985	78						
1986	74						
1987	77						
1988	84						
1989	84						
1990	93						
1991	82						
1992	82						
1993	92						
1994	96						
1995	99						
1996	98						
1997	98						
1998	99						
1999	97						
2000	99	87	87	87	87		
2001	97	77	77		77		
2002	96	76	76	76	76		
2003	97	84	84	84	84		
2004	96	81	81	81	81		
2005	96	82	82	82	82		
2006	98	79	79	79	79		
2007	99	111	111	111	111		
2008	97	94	94	94	94		

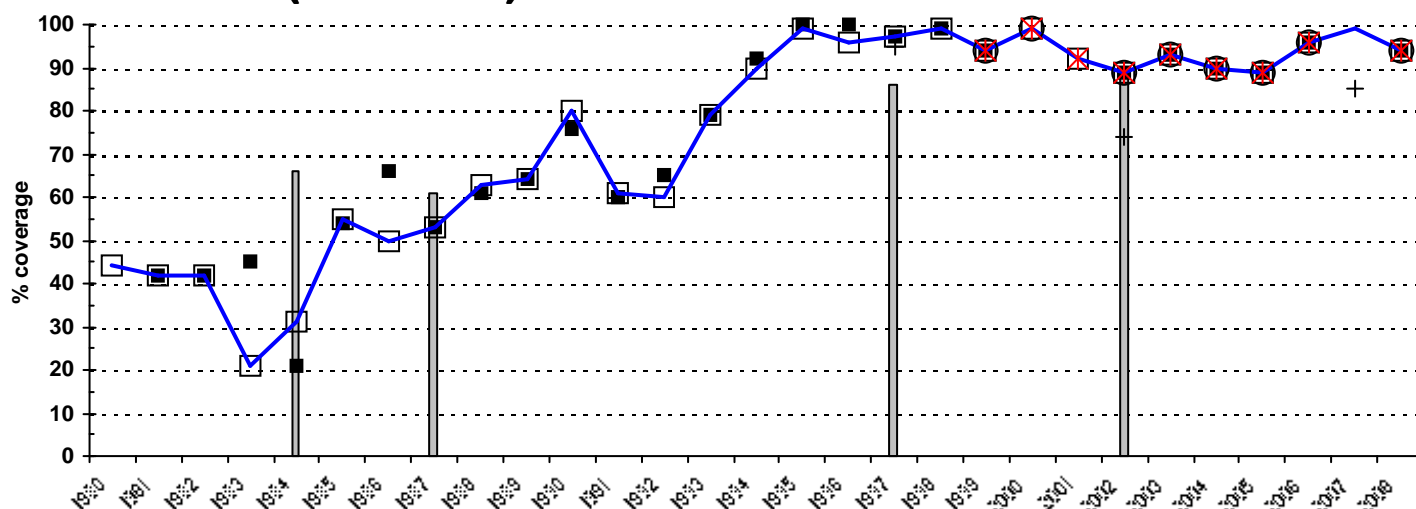
*Prior to 1998 national reports to WHO/UNICEF did not specify whether information was derived from administrative records, surveys or other sources.

**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.

El Salvador

DTP3 (1980-2008)



Description of trend

Estimated immunization coverage levels are based on reported data. A census was conducted in 2007 and recent reported coverage levels are preliminary, pending the finalization of census 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	44	44					
1981	42	42	42				
1982	42	42	42				
1983	21	21	45				
1984	31	31	21			66	
1985	55	55	54				
1986	50	50	66				
1987	53	53	53			61	
1988	63	63	61				
1989	64	64	64				
1990	80	80	76				
1991	61	61	60				
1992	60	60	65				
1993	79	79	79				
1994	90	90	92				
1995	99	99	100				
1996	96	96	100				
1997	97	97	97			86	95
1998	99	99	99				
1999	94	94	94	94	94		
2000	99	99		99	99		
2001	92	92			92		
2002	89	89	89	89	89	89	74
2003	93	93	93	93	93		
2004	90	90	90	90	90		
2005	89	89	89	89	89		
2006	96	96	96	96	96		
2007	99	107	107	107	107		85
2008	94	94	94	94	94		

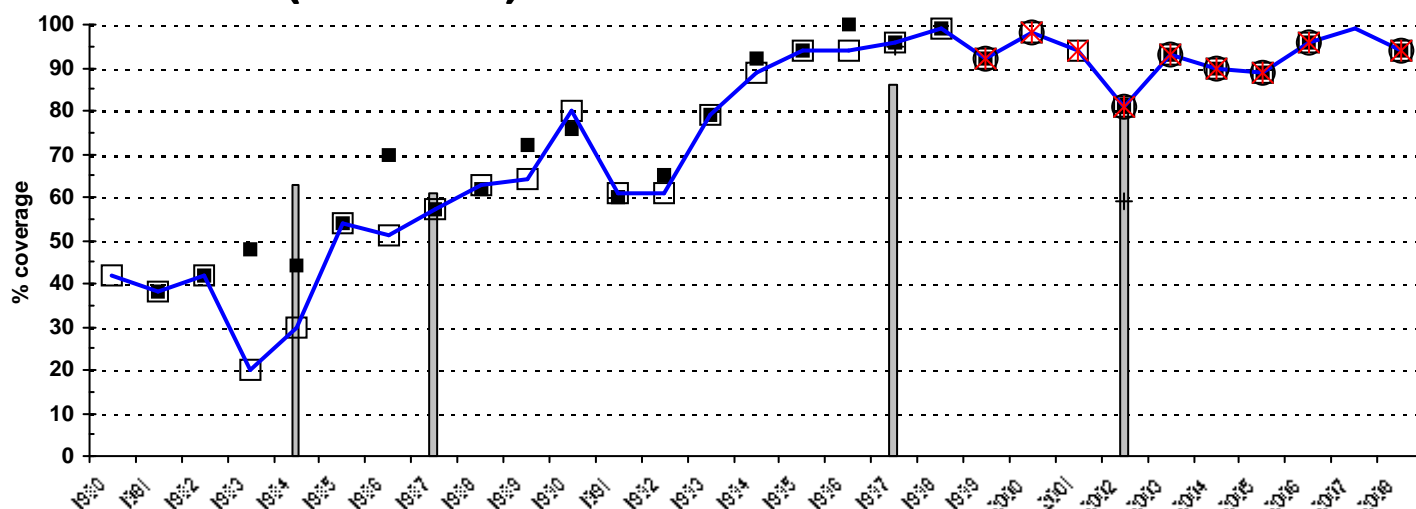
*Prior to 1998 national reports to WHO/UNICEF did not specify whether information was derived from administrative records, surveys or other sources.

**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.

El Salvador

Pol3 (1980-2008)



Description of trend

Estimated immunization coverage levels are based on reported data. A census was conducted in 2007 and recent reported coverage levels are preliminary, pending the finalization of census 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	42	42					
1981	38	38	38				
1982	42	42	42				
1983	20	20	48				
1984	30	30	44			63	
1985	54	54	54				
1986	51	51	70				
1987	57	57	57			61	
1988	63	63	62				
1989	64	64	72				
1990	80	80	76				
1991	61	61	60				
1992	61	61	65				
1993	79	79	79				
1994	89	89	92				
1995	94	94	94				
1996	94	94	100				
1997	96	96	96			86	95
1998	99	99	99				
1999	92	92	92	92	92		
2000	98	98		98	98		
2001	94	94			94		
2002	81	81	81	81	81	83	59
2003	93	93	93	93	93		
2004	90	90	90	90	90		
2005	89	89	89	89	89		
2006	96	96	96	96	96		
2007	99	106	106	106	106		
2008	94	94	94	94	94		

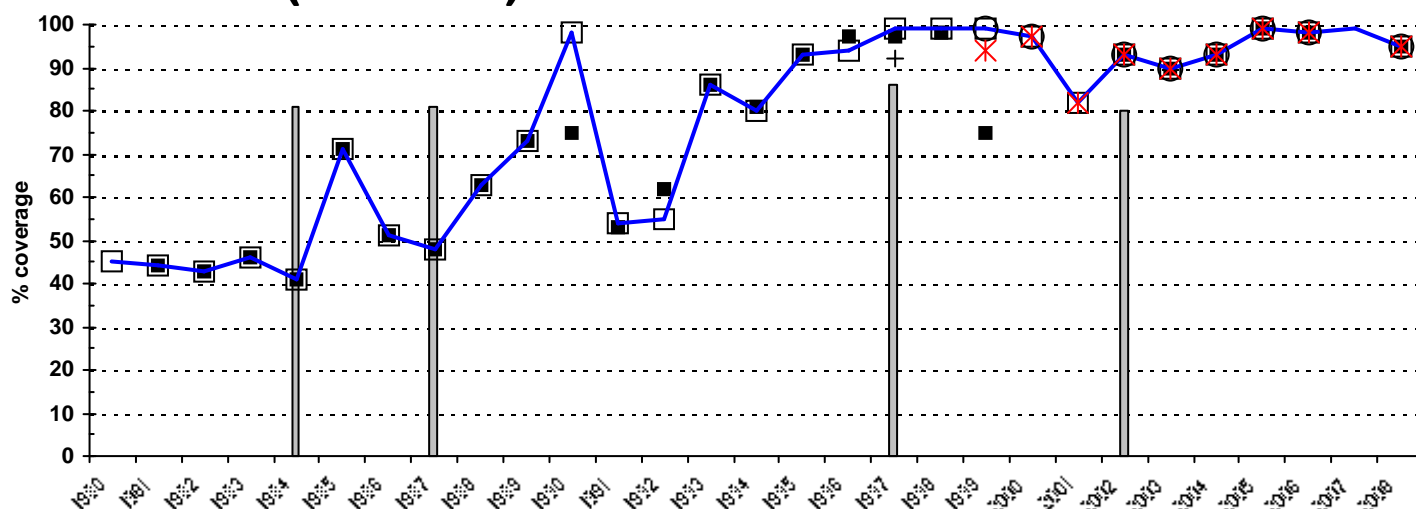
*Prior to 1998 national reports to WHO/UNICEF did not specify whether information was derived from administrative records, surveys or other sources.

**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.

El Salvador

MCV (1980-2008)



Description of trend

Estimated immunization coverage levels are based on reported data. A census was conducted in 2007 and recent reported coverage levels are preliminary, pending the finalization of census 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	45	45					
1981	44	44	44				
1982	43	43	43				
1983	46	46	46				
1984	41	41	41			81	
1985	71	71	71				
1986	51	51	51				
1987	48	48	48			81	
1988	63	63	63				
1989	73	73	73				
1990	98	98	75				
1991	54	54	53				
1992	55	55	62				
1993	86	86	86				
1994	80	80	81				
1995	93	93	93				
1996	94	94	97				
1997	99	99	97			86	92
1998	99	99	98				
1999	99	99	75	99	94		
2000	97	97		97	97		
2001	82	82			82		
2002	93	93	93	93	93	80	
2003	90	90	90	90	90		
2004	93	93	93	93	93		
2005	99	99	99	99	99		
2006	98	98	98	98	98		
2007	99	107	107	107	107		
2008	95	95	95	95	95		

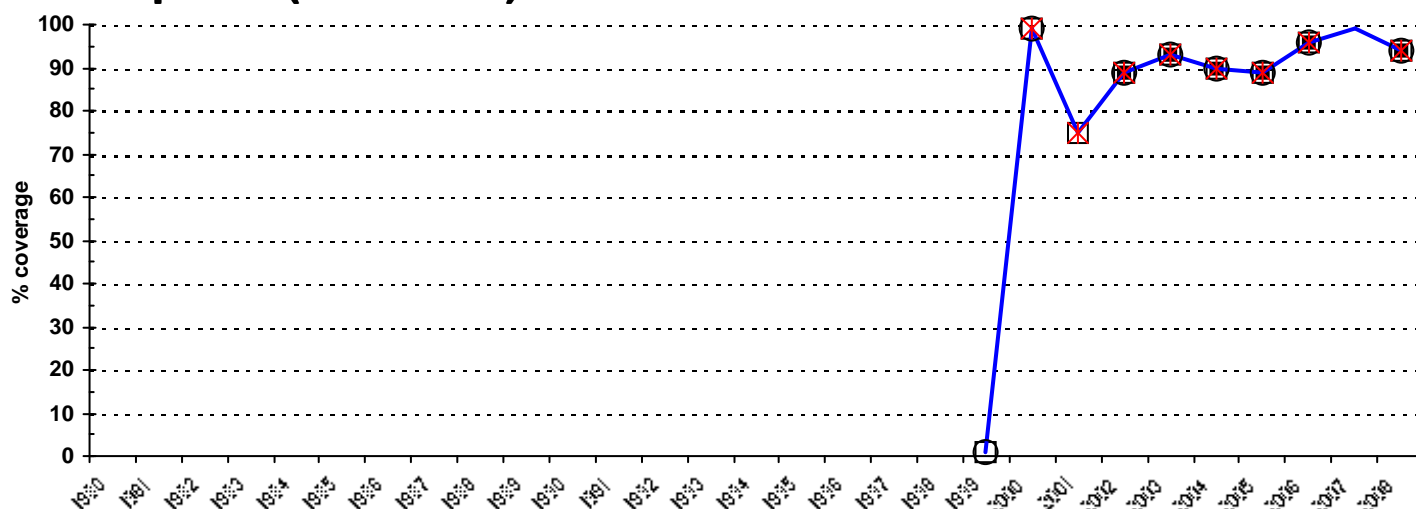
*Prior to 1998 national reports to WHO/UNICEF did not specify whether information was derived from administrative records, surveys or other sources.

**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.

El Salvador

HepB3 (1980-2008)



Description of trend

Hepatitis B vaccine was introduced in 1999. Estimated immunization coverage levels are based on reported data. No survey data are available for 2007 and recent reported coverage levels are preliminary, pending the finalization of census 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							
1981							
1982							
1983							
1984							
1985							
1986							
1987							
1988							
1989							
1990							
1991							
1992							
1993							
1994							
1995							
1996							
1997							
1998							
1999	1	1		1			
2000	99	99		99	99		
2001	75	75			75		
2002	89	89	89	89	89		
2003	93	93	93	93	93		
2004	90	90	90	90	90		
2005	89	89	89	89	89		
2006	96	96	96	96	96		
2007	99	107	107	107	107		
2008	94	94	94	94	94		

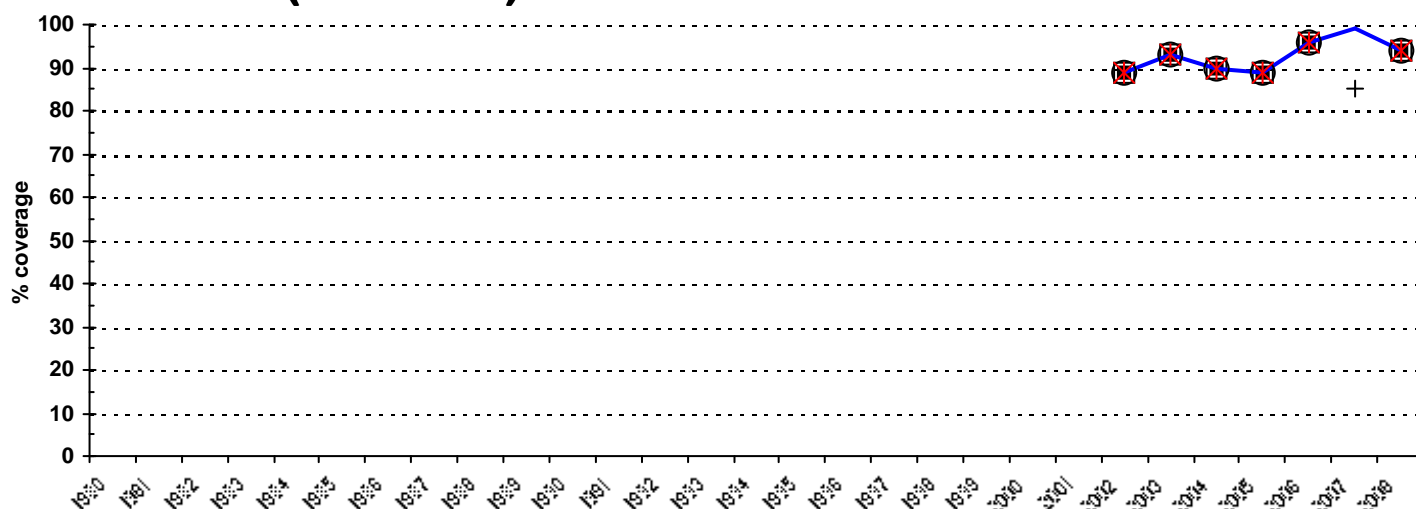
*Prior to 1998 national reports to WHO/UNICEF did not specify whether information was derived from administrative records, surveys or other sources.

**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.

El Salvador

Hib3 (1980-2008)



Description of trend

Hib vaccine introduced in 2002. Estimated immunization coverage levels are based on reported data. No survey data are available. A census conducted in 2007 and recent reported coverage levels are preliminary, pending the finalization of census 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							
1981							
1982							
1983							
1984							
1985							
1986							
1987							
1988							
1989							
1990							
1991							
1992							
1993							
1994							
1995							
1996							
1997							
1998							
1999							
2000							
2001							
2002	89	89	89	89	89		
2003	93	93	93	93	93		
2004	90	90	90	90	90		
2005	89	89	89	89	89		
2006	96	96	96	96	96		
2007	99	107	107	107	107		85
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.

**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.

El Salvador

Details Survey Data

Year Source

Antigen	Confirmation method	% coverage	Compliance with schedule	Age group	Sample size	% cards seen	Survey year	Comments
2007 Encuesta Nacional de Salud Familiar FESAL 2008 Informe Resumido								
DTP3	C or H <12 month	85		6-11 m			2008	
Hib3	C or H <12 month	85		6-11 m			2008	
2002 Encuesta Nacional de Salud Familiar de 2002-2003 (FESAL)								
BCG	Card or History	98.3		12-23 m	4106	70.7	2002/2003	
BCG	Card <12 months	96.2		12-23 m	4106	70.7	2002/2003	
BCG	C or H <12 month	94.9		12-23 m	4106	70.7	2002/2003	
DTP3	Card or History	89.2		12-23 m	3751	70.7	2002/2003	
DTP3	Card <12 months	73.9		12-23 m	3751	70.7	2002/2003	
DTP3	C or H <12 month	72.2		12-23 m	3751	70.7	2002/2003	
Pol3	Card or History	83.3		12-23 m	3751	70.7	2002/2003	
Pol3	Card <12 months	56.1		12-23 m	3751	70.7	2002/2003	
Pol3	C or H <12 month	58.8		12-23 m	3751	70.7	2002/2003	
MCV	Card or History	79.9		12-23 m	3408	70.7	2002/2003	
1997 Encuesta Nacional de Salud Familiar FESAL-98								
BCG	Card or History	96.3		12-23 m	5155	60.5	1998	
BCG	C or H <12 month	88.3		12-23 m	5155	60.5	1998	
DTP3	Card or History	85.9		12-23 m	5155	60.5	1998	
DTP3	C or H <12 month	95.2		12-23 m	5155	60.5	1998	
Pol3	Card or History	85.7		12-23 m	5155	60.5	1998	
Pol3	C or H <12 month	95		12-23 m	5155	60.5	1998	
MCV	Card or History	85.6		12-23 m	5155	60.5	1998	
MCV	C or H <12 month	91.7		12-23 m	5155	60.5	1998	
1987 Encuesta nacional de salud familiar FESAL-88								
PAB	n.a.	68.8		CBAW			1988	
1987 Family Health Survey El Salvador 1988, 1989								
BCG	Card or History	77		< 5 y			1988	Children < 5 years, Report shows a trendline
DTP1	Card or History			< 5 y			1988	Children < 5 years, Report shows a trendline
DTP3	Card or History	61		< 5 y			1988	Children < 5 years, Report shows a trendline
Pol3	Card or History	61		< 5 y			1988	Children < 5 years, Report shows a trendline
MCV	Card or History	81		< 5 y			1988	Children < 5 years, Report shows a trendline
1984 Encuesta Nacional de Salud Familiar (FESAL-85), 1987								
BCG	Card or History	75.6		12-23 m	603	75.3	1985	Recalculated
DTP1	Card or History	87.7		12-23 m	603	75.3	1985	Recalculated
DTP3	Card or History	65.7		12-23 m	603	75.3	1985	Recalculated
Pol3	Card or History	63		12-23 m	603	75.3	1985	Recalculated
MCV	Card or History	80.8		12-23 m	603	75.3	1985	Recalculated

El Salvador

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.

El Salvador

Year	PAB coverage estimate (%)
1980	23
1981	22
1982	26
1983	25
1984	25
1985	26
1986	27
1987	27
1988	28
1989	28
1990	37
1991	46
1992	55
1993	59
1994	63
1995	67
1996	71
1997	74
1998	77
1999	80
2000	83
2001	85
2002	87
2003	90
2004	93
2005	92
2006	91
2007	87
2008	87