

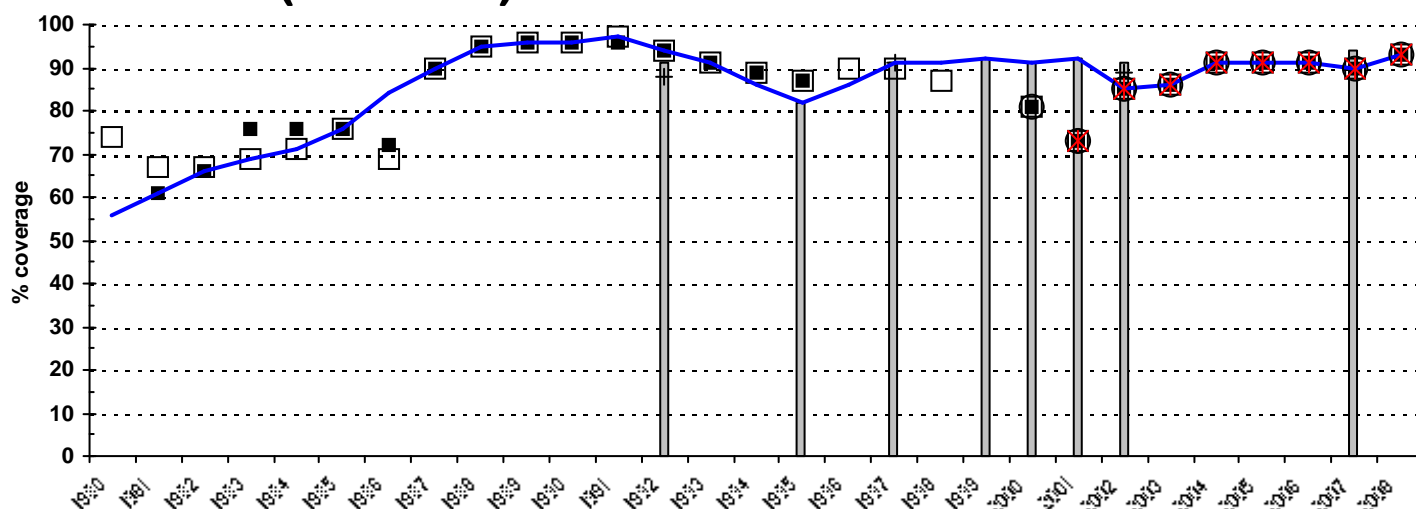
**WHO/UNICEF
Review of National Immunization Coverage
1980-2008**

Philippines

July, 2009

Philippines

BCG (1980-2008)



Description of trend

Coverage estimates are based on government's official reports from 1980-1991. Estimates from 1992-2001 are based on multiple surveys. Estimates from 2002 onward are based on official reports. In 2004 increased training and funds were provided to improve vaccine supply, logistics, and monitoring.

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	74					
1981	61	67	61				
1982	66	67	66				
1983	69	69	76				
1984	71	71	76				
1985	76	76	76				
1986	84	69	72				
1987	90	90	90				
1988	95	95	95				
1989	96	96	96				
1990	96	96	96				
1991	97	97	96				
1992	94	94	94			91	88
1993	91	91	91				
1994	86	89	89				
1995	82	87	87			82	
1996	86	90					
1997	91	90				91	91
1998	91	87					
1999	92					92	
2000	91	81	81	81		91	
2001	92	73	73	73	73	92	
2002	85	85	85	85	85	91	89
2003	86	86	86	86	86		
2004	91	91	91	91	91		
2005	91	91	91	91	91		
2006	91	91	91	91	91		
2007	90	90	90	90	90	94	
2008	93	93	93	93	93		

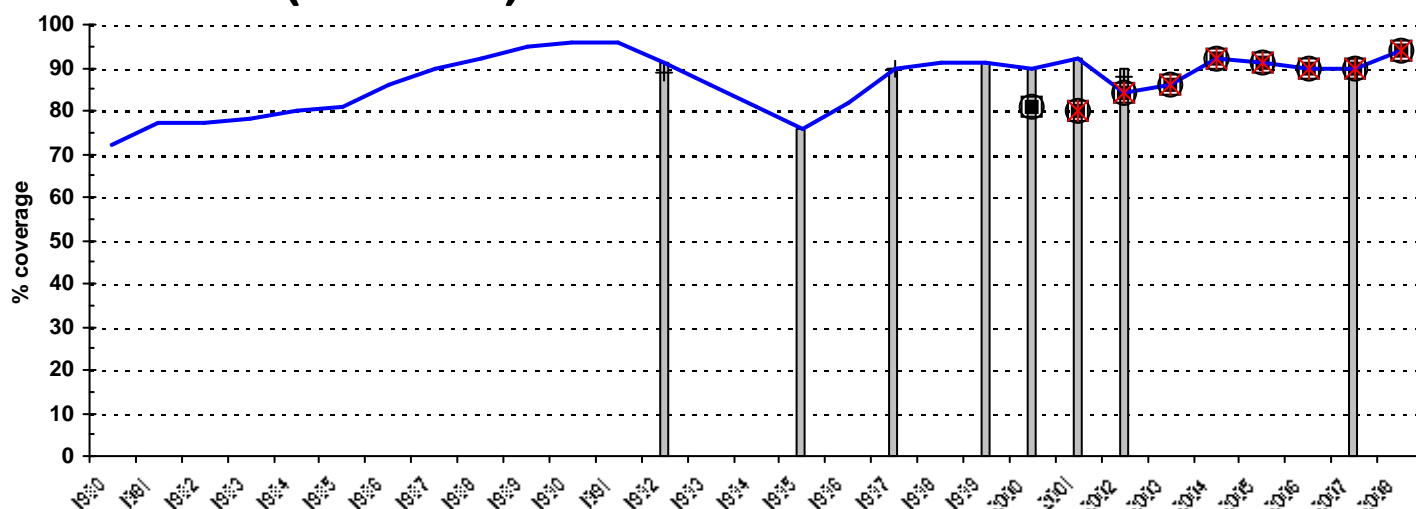
*Prior to 1998 national reports to WHO/UNICEF did not specify whether information was derived from administrative records, surveys or other sources.

**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.

Philippines

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. For estimates from 1980-1992 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 10 countries which were published between 1980 and 2004.) Estimates from 1992-2001 are based on survey data. Estimates from 2002 onward are based on government's official report. In 2004 increased training and funds were provided to improve vaccine supply, logistics, and monitoring.

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	72						
1981	77						
1982	77						
1983	78						
1984	80						
1985	81						
1986	86						
1987	90						
1988	92						
1989	95						
1990	96						
1991	96						
1992	91					91	89
1993	86						
1994	81						
1995	76					76	
1996	82						
1997	90					90	90
1998	91						
1999	91					91	
2000	90	81	81	81		90	
2001	92	80	80	80	80	92	
2002	84	84	84	84	84	90	88
2003	86	86	86	86	86		
2004	92	92	92	92	92		
2005	91	91	91	91	91		
2006	90	90	90	90	90		
2007	90	90	90	90	90	92	
2008	94	94	94	94	94		

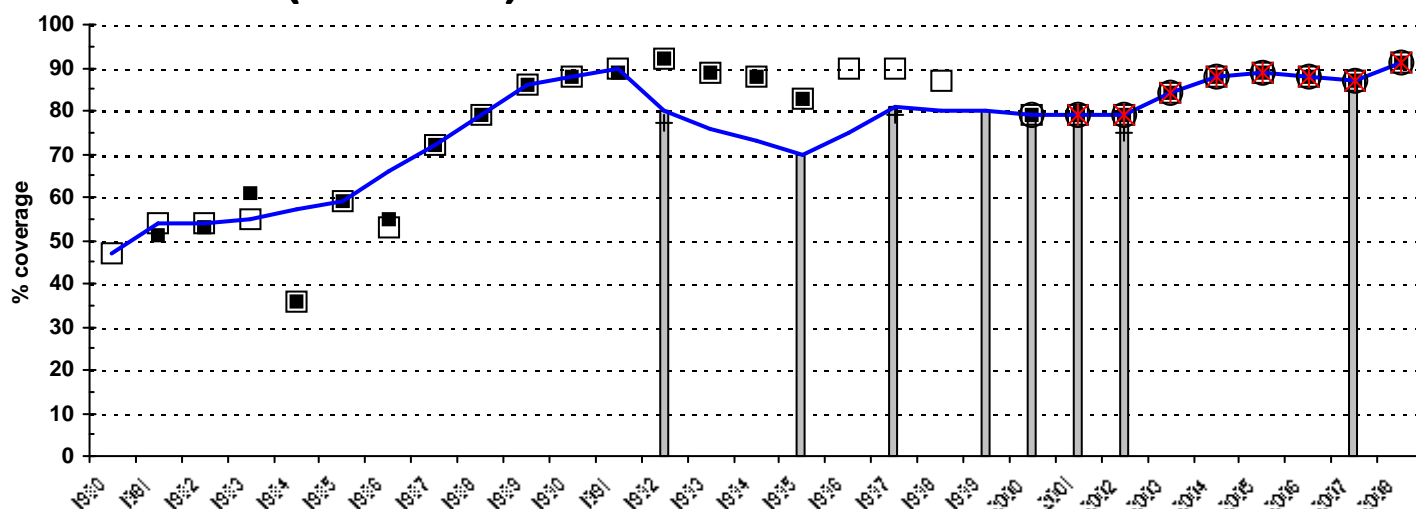
*Prior to 1998 national reports to WHO/UNICEF did not specify whether information was derived from administrative records, surveys or other sources.

**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.

Philippines

DTP3 (1980-2008)



Description of trend

Coverage estimates are based on government's official reports from 1980-1991. Estimates from 1992-1999 are based on multiple surveys. In 2004 increased training and funds were provided to improve vaccine supply, logistics, and monitoring. Estimates from 2000 onward are based on government's official report.

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	47	47					
1981	54	54	51				
1982	54	54	53				
1983	55	55	61				
1984	57	36	36				
1985	59	59	59				
1986	66	53	55				
1987	72	72	72				
1988	79	79	79				
1989	86	86	86				
1990	88	88	88				
1991	90	90	89				
1992	80	92	92			80	77
1993	76	89	89				
1994	73	88	88				
1995	70	83	83			70	
1996	75	90					
1997	81	90				81	79
1998	80	87					
1999	80					80	
2000	79	79	79	79		80	
2001	79	79	79	79	79	81	
2002	79	79	79	79	79	79	75
2003	84	84	84	84	84		
2004	88	88	88	88	88		
2005	89	89	89	89	89		
2006	88	88	88	88	88		
2007	87	87	87	87	87	86	
2008	91	91	91	91	91		

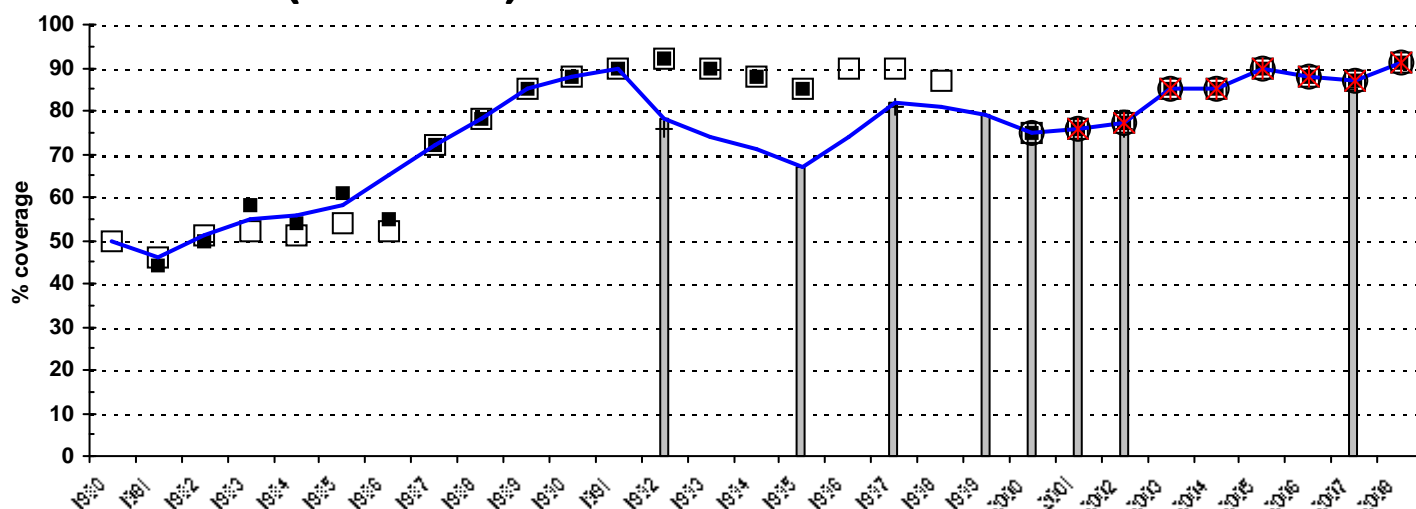
*Prior to 1998 national reports to WHO/UNICEF did not specify whether information was derived from administrative records, surveys or other sources.

**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.

Philippines

Pol3 (1980-2008)



Description of trend

Coverage estimates are based on government's official reports from 1980-1991. Estimates from 1992-1999 are based on multiple surveys. In increased training and funds were provided to improve vaccine supply, logistics, and monitoring. Estimates from 2000 onward are based on government's official report.

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	50	50					
1981	46	46	44				
1982	51	51	50				
1983	55	52	58				
1984	56	51	54				
1985	58	54	61				
1986	65	52	55				
1987	72	72	72				
1988	78	78	78				
1989	85	85	85				
1990	88	88	88				
1991	90	90	90				
1992	78	92	92			78	76
1993	74	90	90				
1994	71	88	88				
1995	67	85	85			67	
1996	74	90					
1997	82	90				82	81
1998	81	87					
1999	79					79	
2000	75	75	75	75		77	
2001	76	76	76	76	76	78	
2002	77	77	77	77	77	80	76
2003	85	85	85	85	85		
2004	85	85	85	85	85		
2005	90	90	90	90	90		
2006	88	88	88	88	88		
2007	87	87	87	87	87	85	
2008	91	91	91	91	91		

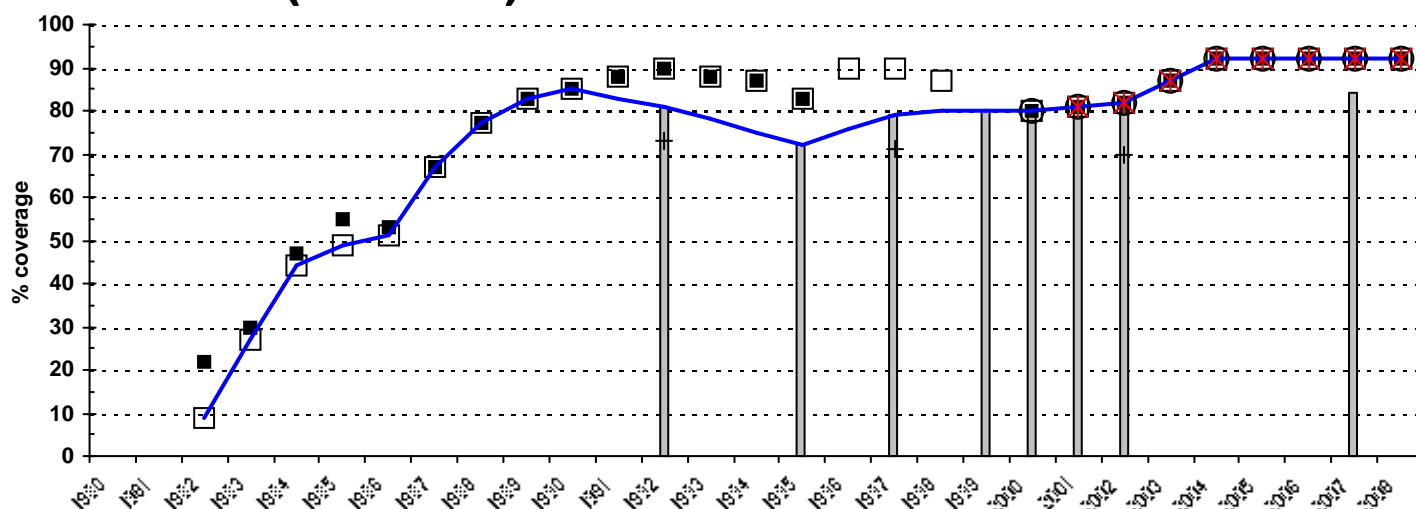
*Prior to 1998 national reports to WHO/UNICEF did not specify whether information was derived from administrative records, surveys or other sources.

**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.

Philippines

MCV (1980-2008)



Description of trend

Coverage estimates are based on government's official reports from 1980-1991. Estimates from 1992-1999 are based on multiple surveys. In 2004 increased training and funds were provided to improve vaccine supply, logistics, and monitoring. Estimates from 2000 onward are based on government's official report.

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	9	9	22				
1983	27	27	30				
1984	44	44	47				
1985	49	49	55				
1986	51	51	53				
1987	67	67	67				
1988	77	77	77				
1989	83	83	83				
1990	85	85	85				
1991	83	88	88				
1992	81	90	90			81	73
1993	78	88	88				
1994	75	87	87				
1995	72	83	83			72	
1996	76	90					
1997	79	90				79	71
1998	80	87					
1999	80					80	
2000	80	80	80	80		81	
2001	81	81	81	81	81	80	
2002	82	82	82	82	82	80	70
2003	87	87	87	87	87		
2004	92	92	92	92	92		
2005	92	92	92	92	92		
2006	92	92	92	92	92		
2007	92	92	92	92	92	84	
2008	92	92	92	92	92		

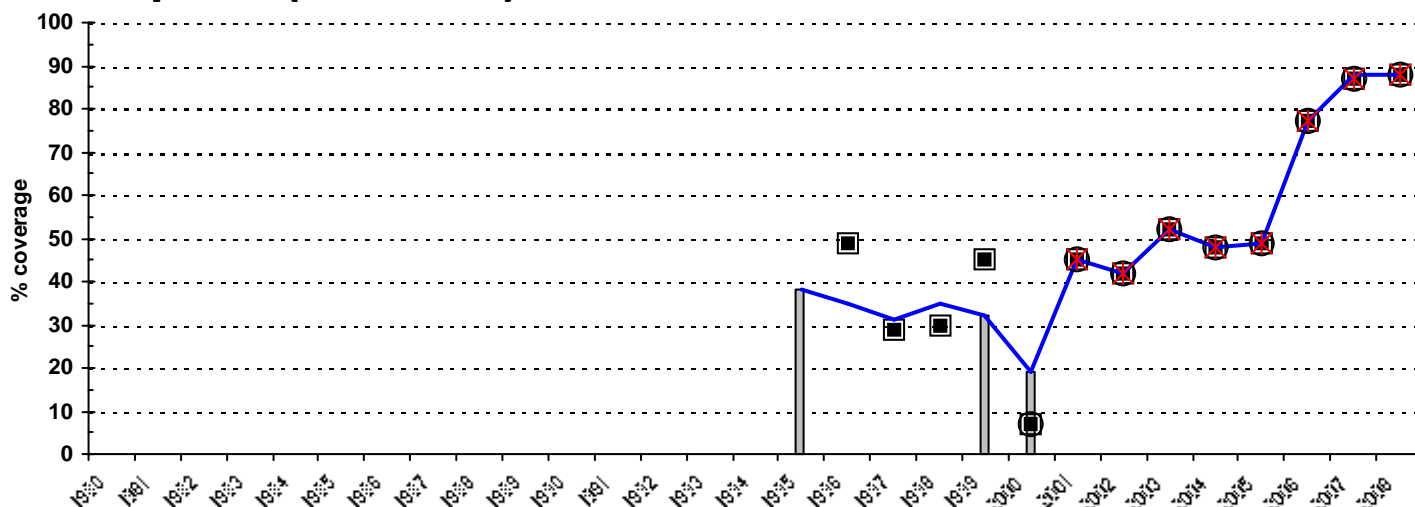
*Prior to 1998 national reports to WHO/UNICEF did not specify whether information was derived from administrative records, surveys or other sources.

**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.

Philippines

HepB3 (1980-2008)



Description of trend

Hepatitis B vaccine introduced in the country in 1992. Officially reported data for Hepatitis B vaccine coverage are available since 1997. The decline in 2002 reflects vaccine shortage due to procurement problems. Estimates are based on official government reports.

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	38					38	
1996	35	49	49				
1997	31	29	29				
1998	35	30	30				
1999	32	45	45			32	
2000	19	7	7	7		19	
2001	45	45	45	45	45		
2002	42	42	42	42	42		
2003	52	52	52	52	52		
2004	48	48	48	48	48		
2005	49	49	49	49	49		
2006	77	77	77	77	77		
2007	88	87	87	87	87		
2008	88	88	88	88	88		

*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.

Philippines

Details Survey Data

Year Source

Antigen	Confirmation method	% coverage	Compliance with schedule	Age group	Sample size	% cards seen	Survey year	Comments
2007 Philippines National Demographic and Health Survey (NDHS) 2008, Preliminary Report								
BCG	Card or History	93.9		12-23 m	1285	42.5	2008	
DTP1	Card or History	92.5		12-23 m	1285	42.5	2008	
DTP3	Card or History	85.5		12-23 m	1285	42.5	2008	
Pol3	Card or History	85.2		12-23 m	1285	42.5	2008	
MCV	Card or History	84.4		12-23 m	1285	42.5	2008	
2002 National Demographic and Health Survey 2003								
BCG	History	52.5		12-23 m	1348	38.9	2003	
BCG	Card or history	90.8		12-23 m	1348	38.9	2003	
BCG	Card	38.3		12-23 m	1348	38.9	2003	
BCG	C or H <12 month	89		12-23 m	1348	38.9	2003	
DTP1	History	51.6		12-23 m	1348	38.9	2003	
DTP1	Card or history	89.9		12-23 m	1348	38.9	2003	
DTP1	Card	38.4		12-23 m	1348	38.9	2003	
DTP1	C or H <12 month	88.4		12-23 m	1348	38.9	2003	
DTP3	History	43.1		12-23 m	1348	38.9	2003	
DTP3	Card or history	78.9		12-23 m	1348	38.9	2003	
DTP3	Card	35.8		12-23 m	1348	38.9	2003	
DTP3	C or H <12 month	75		12-23 m	1348	38.9	2003	
Pol3	History	43.7		12-23 m	1348	38.9	2003	
Pol3	Card or history	79.8		12-23 m	1348	38.9	2003	
Pol3	Card	36.1		12-23 m	1348	38.9	2003	
Pol3	C or H <12 month	75.8		12-23 m	1348	38.9	2003	
MCV	History	45.6		12-23 m	1348	38.9	2003	
MCV	Card or history	79.7		12-23 m	1348	38.9	2003	
MCV	Card	34.1		12-23 m	1348	38.9	2003	
MCV	C or H <12 month	69.7		12-23 m	1348	38.9	2003	
2001 Philippines, Maternal and Child Health Survey 2002								
BCG	Card or History	92.1		12-23 m	1885	91.2	2002	
DTP1	Card or History	91.6		12-23 m	1885	91.2	2002	
DTP3	Card or History	80.6		12-23 m	1885	91.2	2002	
Pol3	Card or History	78.1		12-23 m	1885	91.2	2002	
MCV	Card or History	80.2		12-23 m	1885	91.2	2002	
2000 Philippines, Maternal and Child Health Survey 2001								
BCG	Card or History	91.2		12-23 m	1937	88.7	2001	
DTP1	Card or History	90.3		12-23 m	1937	88.7	2001	
DTP3	Card or History	79.6		12-23 m	1937	88.7	2001	
Pol3	Card or History	77.1		12-23 m	1937	88.7	2001	
MCV	Card or History	80.8		12-23 m	1937	88.7	2001	
HepB	History	18.8		12-23 m	1937	88.7	2001	
2000 Philippines, Maternal and Child Health Survey 2001, 2002								
PAB	Card or History	55.7		children 0-35 m			2001	Children 0-35 m protected through TT immunization of mother
1999 Philippines, Maternal and Child Health Survey 2000								
BCG	Card or History	92.2		12-23 m	2070	88.7	2000	
DTP1	Card or History	90.7		12-23 m	2070	88.7	2000	

Philippines

Details Survey Data

Year Source

Antigen	Confirmation method	% coverage	Compliance with schedule	Age group	Sample size	% cards seen	Survey year	Comments
DTP3	Card or History	80.5		12-23 m	2070	88.7	2000	
Pol3	Card or History	79.2		12-23 m	2070	88.7	2000	
MCV	Card or History	79.7		12-23 m	2070	88.7	2000	
HepB	History	32.4		12-23 m	2070	88.7	2000	

1997 Philippines, National Demographic and Health Survey 1998, 1999

BCG	Card or History	90.8		12-23 m	1474	41.4	1998	
BCG	C or H <12 month	90.6		12-23 m	1474	41.4	1998	
DTP1	Card or History	90.3		12-23 m	1474	41.4	1998	
DTP1	C or H <12 month	90.1		12-23 m	1474	41.4	1998	
DTP3	Card or History	80.9		12-23 m	1474	41.4	1998	
DTP3	C or H <12 month	78.7		12-23 m	1474	41.4	1998	
Pol3	Card or History	81.7		12-23 m	1474	41.4	1998	
Pol3	C or H <12 month	80.6		12-23 m	1474	41.4	1998	
MCV	Card or History	78.9		12-23 m	1474	41.4	1998	
MCV	C or H <12 month	70.9		12-23 m	1474	41.4	1998	

1995 Philippines, Multiple Indicator Cluster Survey 1996

BCG	Card or History	81.6		12-23 m	17967		1996	Confirmation method also includes Scar
DTP1	Card or History	76.3		12-23 m	17967		1996	
DTP3	Card or History	69.6		12-23 m	17967		1996	
Pol3	Card or History	66.8		12-23 m	17967		1996	
MCV	Card or History	72.1		12-23 m	17967		1996	
HepB	Card or History	37.8		12-23 m	17967		1996	

1992 Philippines, National Demographic Survey 1993, 1994

BCG	Card or History	91.2		12-23 m	1742	35.1	1993	
BCG	C or H <12 month	88.3		12-23 m	1742	35.1	1993	
BCG	C or H <12 month	88.3		24-35 m	1752	29.1	1993	
BCG	C or H <12 month	84.4		36-47 m	1712	24.4	1993	
BCG	C or H <12 month	78.8		48-59 m	1596	17.5	1993	
DTP1	Card or History	91.1		12-23 m	1742	35.1	1993	
DTP1	C or H <12 month	88.8		12-23 m	1742	35.1	1993	
DTP1	C or H <12 month	87.7		24-35 m	1752	29.1	1993	
DTP1	C or H <12 month	85.6		36-47 m	1712	24.4	1993	
DTP1	C or H <12 month	79.1		48-59 m	1596	17.5	1993	
DTP3	Card or History	79.9		12-23 m	1742	35.1	1993	
DTP3	C or H <12 month	77.3		12-23 m	1742	35.1	1993	
DTP3	C or H <12 month	74.5		24-35 m	1752	29.1	1993	
DTP3	C or H <12 month	70.3		36-47 m	1712	24.4	1993	
DTP3	C or H <12 month	62.4		48-59 m	1596	17.5	1993	
Pol3	Card or History	78.2		12-23 m	1742	35.1	1993	
Pol3	C or H <12 month	75.5		12-23 m	1742	35.1	1993	
Pol3	C or H <12 month	72.5		24-35 m	1752	29.1	1993	
Pol3	C or H <12 month	67.6		36-47 m	1712	24.4	1993	
Pol3	C or H <12 month	61.2		48-59 m	1596	17.5	1993	
MCV	Card or History	81.4		12-23 m	1742	35.1	1993	
MCV	C or H <12 month	70.9		12-23 m	1742	35.1	1993	
MCV	C or H <12 month	73.4		24-35 m	1752	29.1	1993	
MCV	C or H <12 month	69		36-47 m	1712	24.4	1993	
MCV	C or H <12 month	58.6		48-59 m	1596	17.5	1993	

Philippines

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.

Philippines

Year	PAB coverage estimate (%)
1980	8
1981	13
1982	17
1983	23
1984	22
1985	28
1986	31
1987	39
1988	45
1989	53
1990	57
1991	55
1992	56
1993	57
1994	54
1995	54
1996	55
1997	55
1998	55
1999	55
2000	55
2001	56
2002	56
2003	56
2004	57
2005	57
2006	61
2007	58
2008	58