

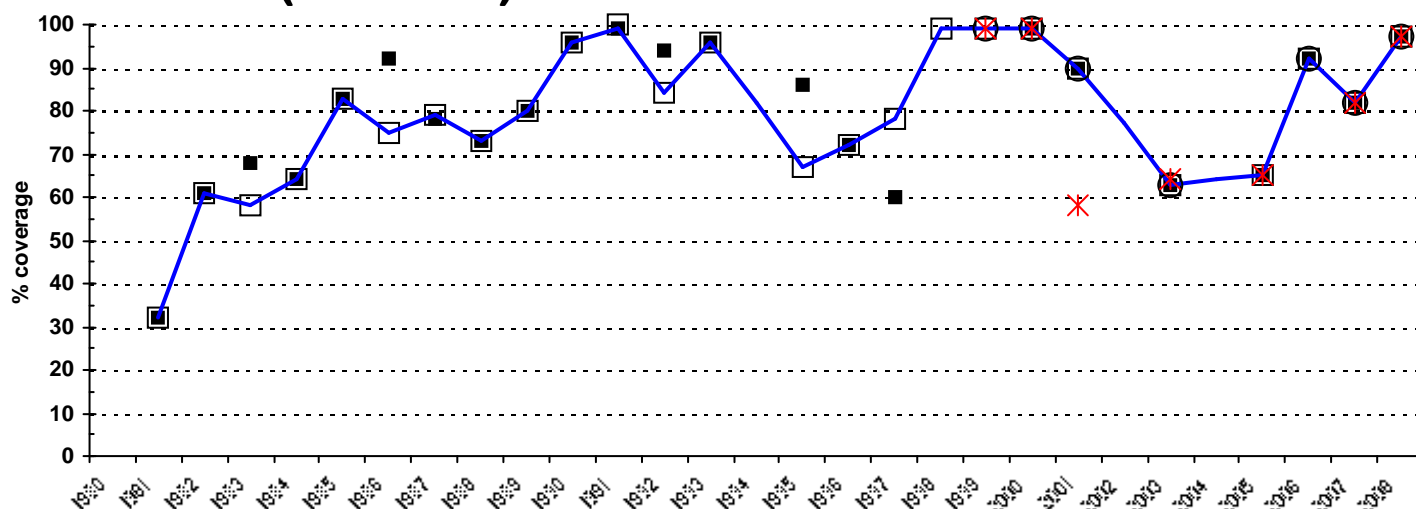
**WHO/UNICEF
Review of National Immunization Coverage
1980-2008**

Vanuatu

July, 2009

Vanuatu

BCG (1980-2008)



Description of trend

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	32	32	32				
1982	61	61	61				
1983	58	58	68				
1984	64	64	64				
1985	83	83	83				
1986	75	75	92				
1987	79	79	78				
1988	73	73	73				
1989	80	80	80				
1990	96	96	96				
1991	99	100	99				
1992	84	84	94				
1993	96	96	96				
1994	82						
1995	67	67	86				
1996	72	72	72				
1997	78	78	60				
1998	99	99					
1999	99	99		99	99		
2000	99	99	99	99	99		
2001	90	90	90	90	58		
2002	77						
2003	63	63	63	63	64		
2004	64						
2005	65	65	65		65		
2006	92	92	92	92			
2007	82	82	82	82	82		
2008	97	97	97	97	97		

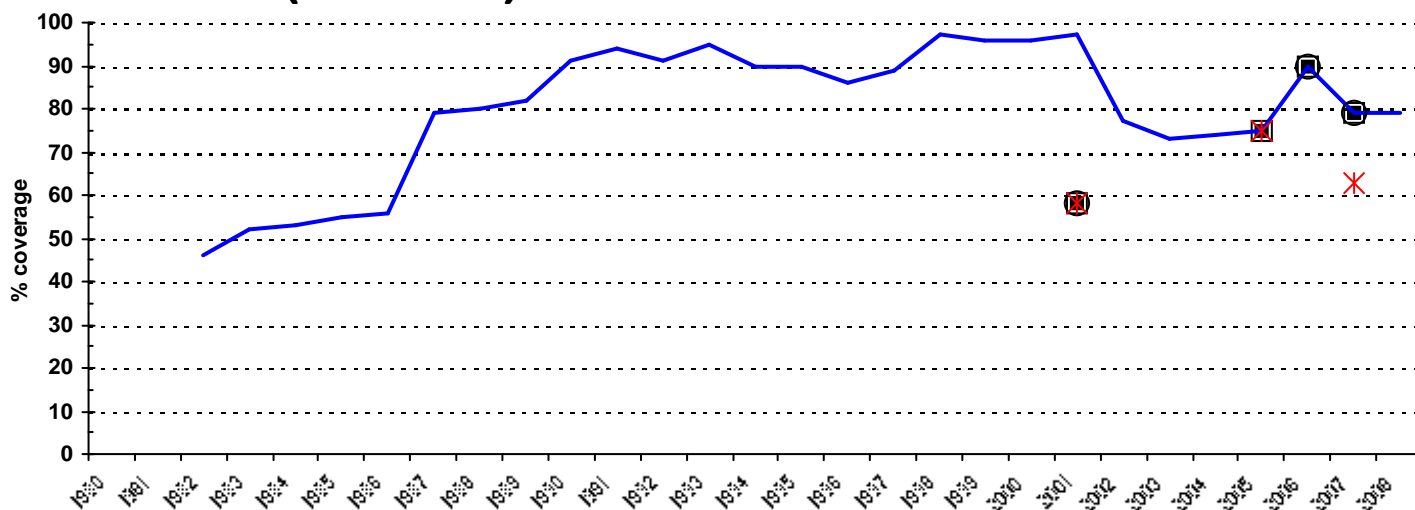
*Prior to 1998 national reports to WHO/UNICEF did not specify whether information was derived from administrative records, surveys or other sources.

**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.

Vanuatu

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 estimates for these years are based on those data. DTP1 estimates for the remaining years 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.

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	46						
1983	52						
1984	53						
1985	55						
1986	56						
1987	79						
1988	80						
1989	82						
1990	91						
1991	94						
1992	91						
1993	95						
1994	90						
1995	90						
1996	86						
1997	89						
1998	97						
1999	96						
2000	96						
2001	97	58	58	58	58		
2002	77						
2003	73						
2004	74						
2005	75	75	75		75		
2006	90	90	90	90			
2007	79	79	79	79	63		
2008	79						

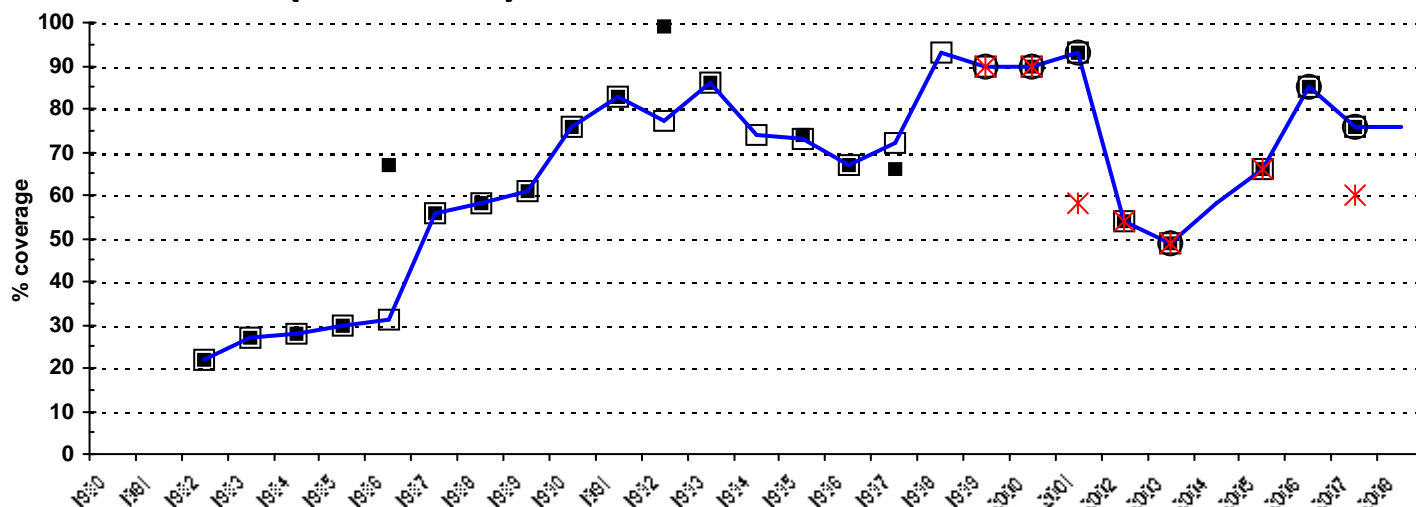
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Vanuatu

DTP3 (1980-2008)



Description of trend

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	22	22	22				
1983	27	27	27				
1984	28	28	28				
1985	30	30	30				
1986	31	31	67				
1987	56	56	56				
1988	58	58	58				
1989	61	61	61				
1990	76	76	76				
1991	83	83	83				
1992	77	77	99				
1993	86	86	86				
1994	74	74					
1995	73	73	74				
1996	67	67	67				
1997	72	72	66				
1998	93	93					
1999	90	90		90	90		
2000	90	90	90	90	90		
2001	93	93	93	93	58		
2002	54	54	54		54		
2003	49	49	49	49	49		
2004	58						
2005	66	66	66		66		
2006	85	85	85	85			
2007	76	76	76	76	60		
2008	76						

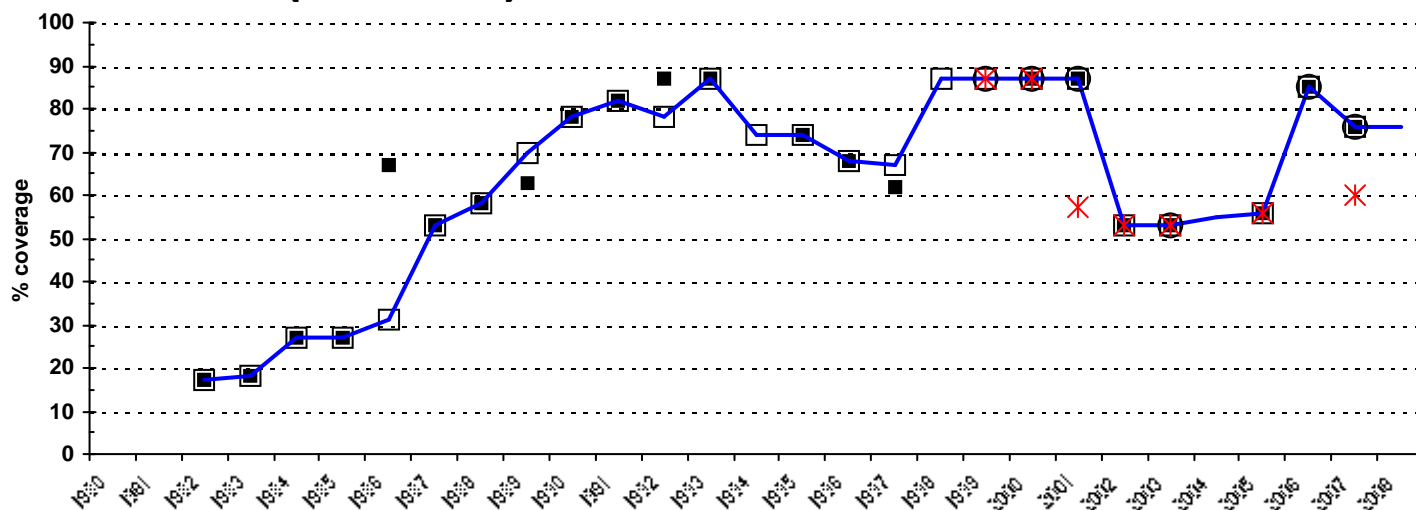
*Prior to 1998 national reports to WHO/UNICEF did not specify whether information was derived from administrative records, surveys or other sources.

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

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Pol3 (1980-2008)



Description of trend

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	17	17	17				
1983	18	18	18				
1984	27	27	27				
1985	27	27	27				
1986	31	31	67				
1987	53	53	53				
1988	58	58	58				
1989	70	70	63				
1990	78	78	78				
1991	82	82	82				
1992	78	78	87				
1993	87	87	87				
1994	74	74					
1995	74	74	74				
1996	68	68	68				
1997	67	67	62				
1998	87	87					
1999	87	87		87	87		
2000	87	87	87	87	87		
2001	87	87	87	87	57		
2002	53	53	53		53		
2003	53	53	53	53	53		
2004	55						
2005	56	56	56		56		
2006	85	85	85	85			
2007	76	76	76	76	60		
2008	76						

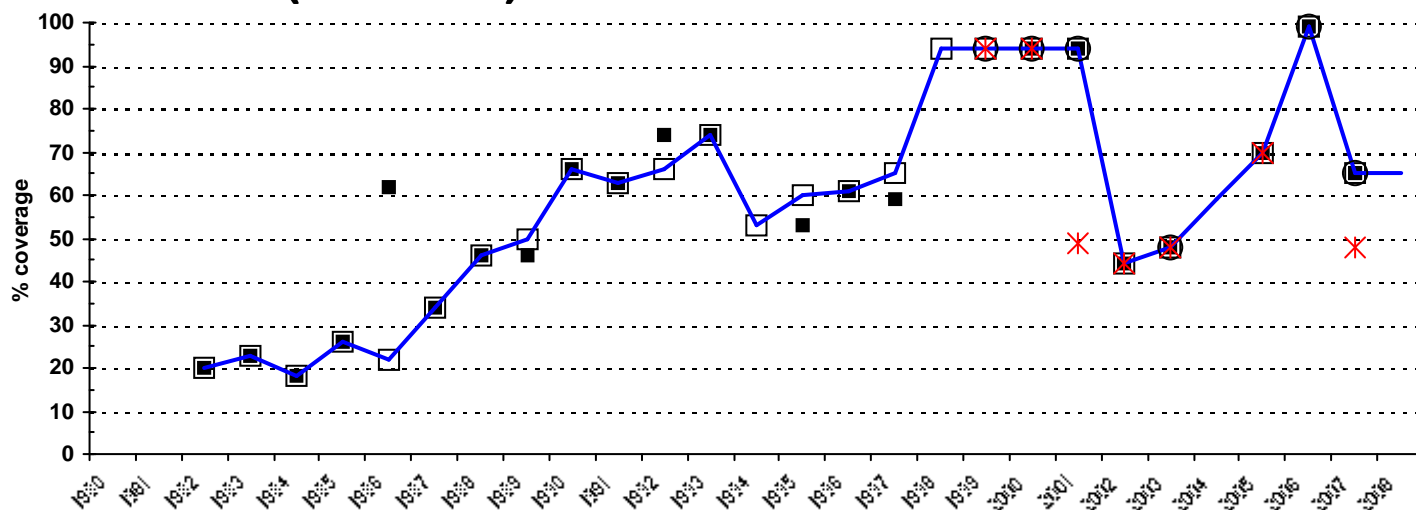
*Prior to 1998 national reports to WHO/UNICEF did not specify whether information was derived from administrative records, surveys or other sources.

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Vanuatu

MCV (1980-2008)



Description of trend

Estimated immunization coverage levels are based on reported data. The measles campaign in 2006 contributed to high 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	20	20	20				
1983	23	23	23				
1984	18	18	18				
1985	26	26	26				
1986	22	22	62				
1987	34	34	34				
1988	46	46	46				
1989	50	50	46				
1990	66	66	66				
1991	63	63	63				
1992	66	66	74				
1993	74	74	74				
1994	53	53					
1995	60	60	53				
1996	61	61	61				
1997	65	65	59				
1998	94	94					
1999	94	94		94	94		
2000	94	94	94	94	94		
2001	94	94	94	94	49		
2002	44	44	44		44		
2003	48	48	48	48	48		
2004	59						
2005	70	70	70		70		
2006	99	99	99	99			
2007	65	65	65	65	48		
2008	65						

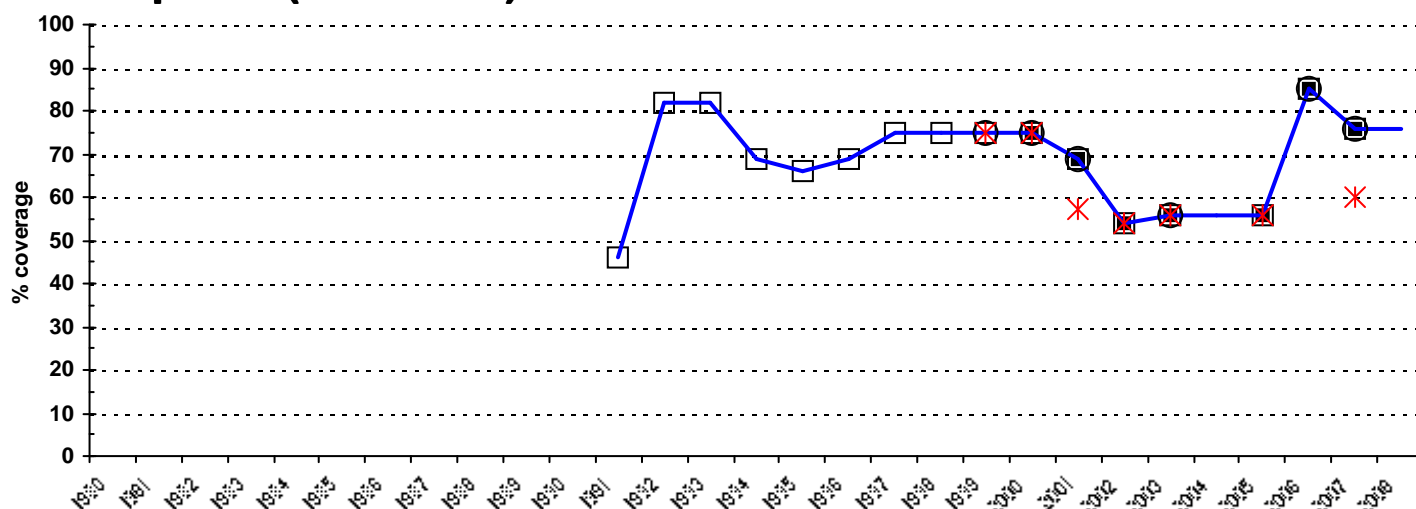
*Prior to 1998 national reports to WHO/UNICEF did not specify whether information was derived from administrative records, surveys or other sources.

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Vanuatu

HepB3 (1980-2008)



Description of trend

Hepatitis B vaccine introduced in 1993, available nationally in 1995. 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	46	46					
1992	82	82					
1993	82	82					
1994	69	69					
1995	66	66					
1996	69	69					
1997	75	75					
1998	75	75					
1999	75	75		75	75		
2000	75	75	75	75	75		
2001	69	69	69	69	57		
2002	54	54	54		54		
2003	56	56	56	56	56		
2004	56						
2005	56	56	56		56		
2006	85	85	85	85			
2007	76	76	76	76	60		
2008	76						

*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.

Vanuatu

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.

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Year	PAB coverage estimate (%)
1980	
1981	
1982	
1983	6
1984	6
1985	19
1986	19
1987	25
1988	20
1989	20
1990	47
1991	25
1992	54
1993	56
1994	30
1995	33
1996	29
1997	23
1998	76
1999	84
2000	86
2001	87
2002	82
2003	77
2004	78
2005	84
2006	88
2007	73
2008	73