

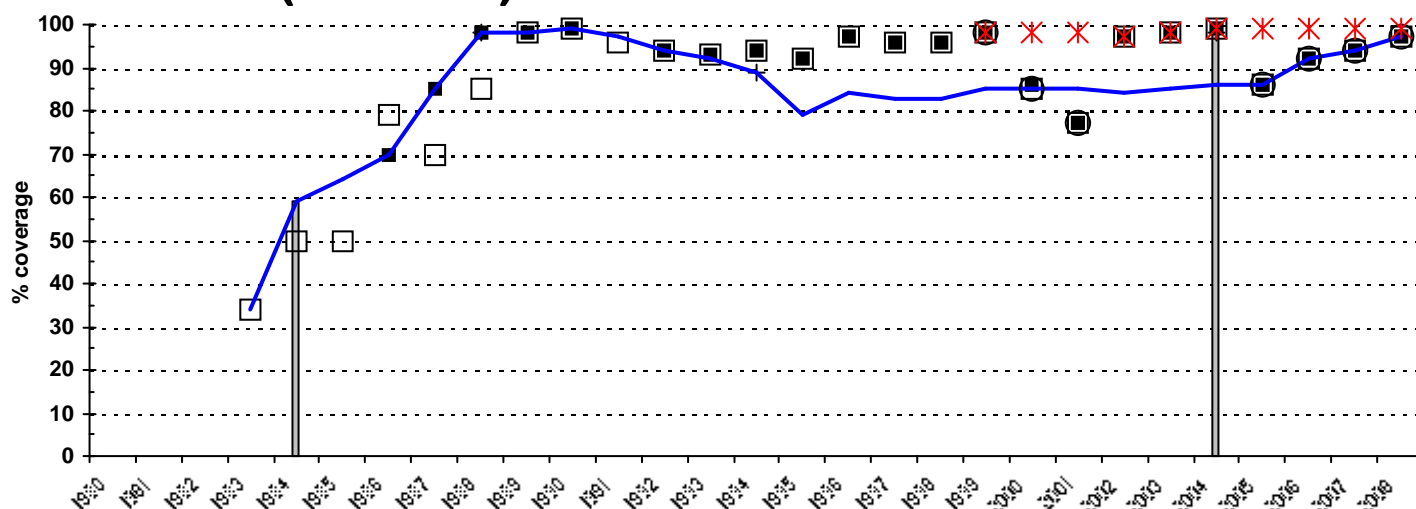
**WHO/UNICEF
Review of National Immunization Coverage
1980-2008**

China

July, 2009

China

BCG (1980-2008)



Description of trend

WHO/UNICEF estimates are based on the 1984, 1988 and 1994 survey points. Immunization coverage peaked in 1990 with national efforts to achieve universal childhood immunization (UCI) goals. Estimates from 1995 onward reflect a calibration between the 1995 survey (1994 survey data point) and data reported to WHO (reported doses administered following 1998). Estimates from 1995-2004 are based on national report calibrated to the level of the 2005 national report. Estimates from 2005 onward are based on national estimates derived from routine reporting both the number of children vaccinated as well as the number of target children. The target number of children reported (10.5-11.3 million) through the immunization system is significantly lower than the birth cohort estimated by the National Bureau of Statistics (NBS). From 2005 onward national report calculates the number of children for which no report was received by taking the difference between the NBS estimate of births, the reported target number of children. Fifty percent of these children were assumed to have been vaccinated even though no report was received. This adjusted number of children vaccinated is then divided by the NBS estimate of births.

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	34	34					
1984	59	50				59	
1985	64	50					
1986	70	79	70				
1987	85	70	85				
1988	98	85	98				98
1989	98	98	98				
1990	99	99	99				
1991	97	96					
1992	94	94	94				
1993	92	93	93				
1994	89	94	94				89
1995	79	92	92				
1996	84	97	97				
1997	83	96	96				
1998	83	96	96				
1999	85	98	98	98	98		
2000	85	85	86	85	98		
2001	85	77	77	77	98		
2002	84	97	97		97		
2003	85	98	98		98		
2004	86	99	99		99	98	98
2005	86	86	86	86	99		
2006	92	92	92	92	99		
2007	94	94	94	94	99		
2008	97	97	97	97	99		

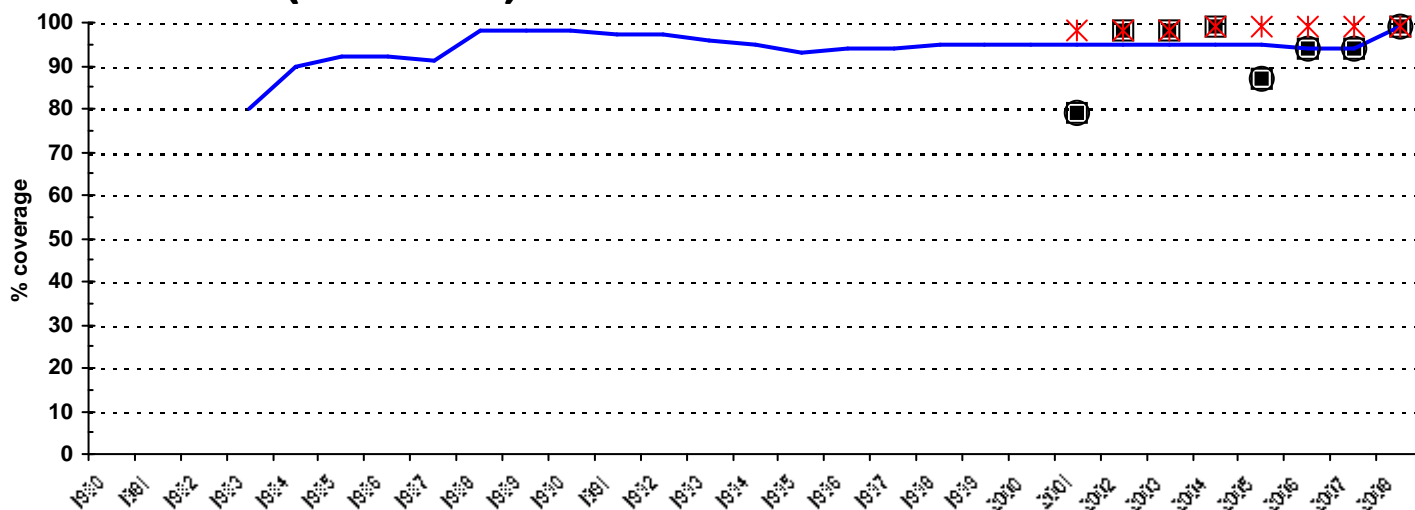
*Prior to 1998 national reports to WHO/UNICEF did not specify whether information was derived from administrative records, surveys or other sources.

**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.

China

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 200 onward. The estimates are derived from the WHO/UNICEF estimates of DTP3 and the relationship between the levels of DTP3 coverage and 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							
1983	80						
1984	90						
1985	92						
1986	92						
1987	91						
1988	98						
1989	98						
1990	98						
1991	97						
1992	97						
1993	96						
1994	95						
1995	93						
1996	94						
1997	94						
1998	95						
1999	95						
2000	95						
2001	95	79	79	79	98		
2002	95	98	98		98		
2003	95	98	98		98		
2004	95	99	99		99		
2005	95	87	87	87	99		
2006	94	94	94	94	99		
2007	94	94	94	94	99		
2008	99	99	99	99	99		

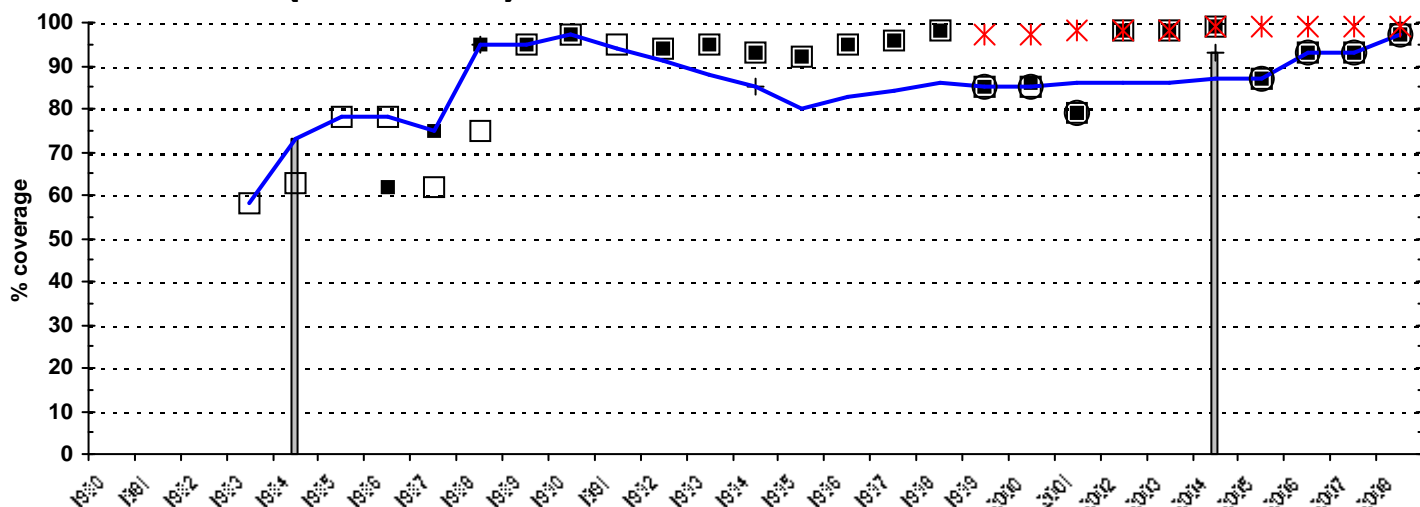
*Prior to 1998 national reports to WHO/UNICEF did not specify whether information was derived from administrative records, surveys or other sources.

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

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China

DTP3 (1980-2008)



Description of trend

WHO/UNICEF estimates are based on the 1984, 1988 and 1994 survey points. Immunization coverage peaked in 1990 with national efforts to achieve universal childhood immunization (UCI) goals. Estimates from 1995-2004 are based on national reports calibrated to the level of the national report. Estimates from 2005 onward are based on national estimates derived from routine reporting of both the number of children vaccinated as well as the number of target children. The target number of children reported (10.5-11.3 million) through the immunization system significantly lower than the birth cohort estimated by the National Bureau of Statistics (NBS). From 2005 onward the national report calculate number of children for which no report was received by taking the difference between the NBS estimate of births and the reported target number of children. Fifty percent of these children were assumed to have been vaccinated even though no report was received. This adjusted number children vaccinated is then divided by the NBS estimate of births.

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	58	58					
1984	73	63				73	
1985	78	78					
1986	78	78	62				
1987	75	62	75				
1988	95	75	95				95
1989	95	95	95				
1990	97	97	97				
1991	94	95					
1992	91	94	94				
1993	88	95	95				
1994	85	93	93				85
1995	80	92	92				
1996	83	95	95				
1997	84	96	96				
1998	86	98	98				
1999	85	85	85	85	97		
2000	85	85	86	85	97		
2001	86	79	79	79	98		
2002	86	98	98		98		
2003	86	98	98		98		
2004	87	99	99		99	93	93
2005	87	87	87	87	99		
2006	93	93	93	93	99		
2007	93	93	93	93	99		
2008	97	97	97	97	99		

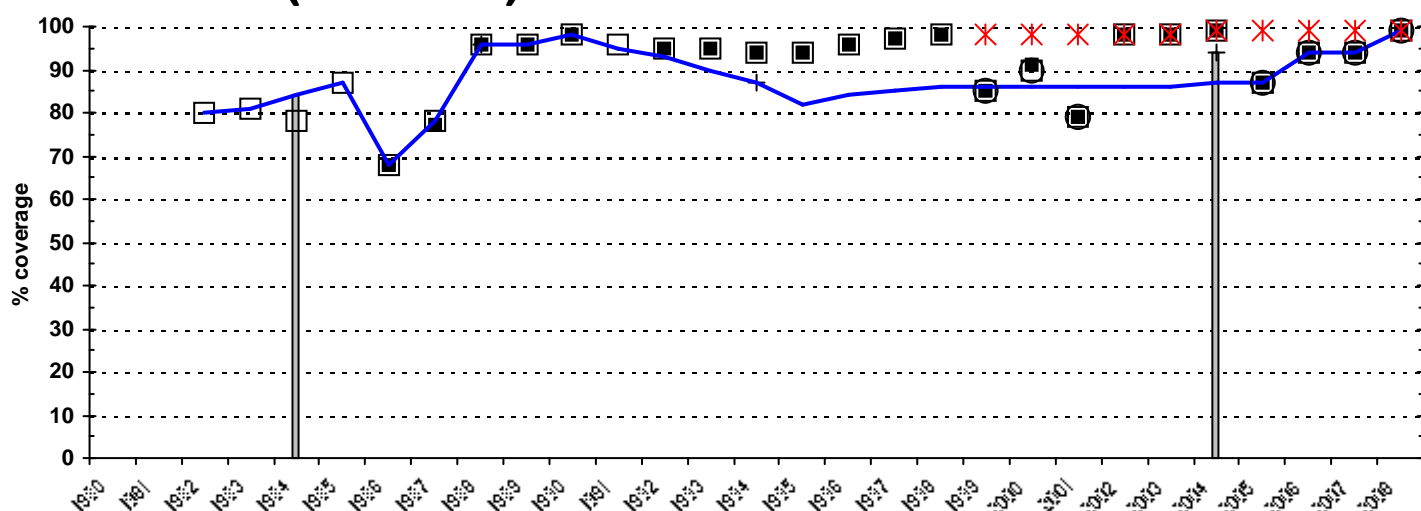
*Prior to 1998 national reports to WHO/UNICEF did not specify whether information was derived from administrative records, surveys or other sources.

**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.

China

Pol3 (1980-2008)



Description of trend

WHO/UNICEF estimates are based on the 1984, 1988 and 1994 survey points. Immunization coverage peaked in 1990 with national efforts to achieve universal childhood immunization (UCI) goals. Estimates from 1995-2004 are based on national reports calibrated to the level of the national report. Estimates from 2005 onward are based on national estimates derived from routine reporting of both the number of children vaccinated as well as the number of target children. The target number of children reported (10.5-11.3 million) through the immunization system significantly lower than the birth cohort estimated by the National Bureau of Statistics (NBS). From 2005 onward the national report calculates number of children for which no report was received by taking the difference between the NBS estimate of births and the reported target number children. Fifty percent of these children were assumed to have been vaccinated even though no report was received. This adjusted number of children vaccinated is then divided by the NBS estimate of births.

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	80	80					
1983	81	81					
1984	84	78				84	
1985	87	87					
1986	68	68	68				
1987	78	78	77				
1988	96	96	96				96
1989	96	96	96				
1990	98	98	98				
1991	95	96					
1992	93	95	95				
1993	90	95	95				
1994	87	94	94				87
1995	82	94	94				
1996	84	96	96				
1997	85	97	97				
1998	86	98	98				
1999	86	85	85	85	98		
2000	86	90	91	90	98		
2001	86	79	79	79	98		
2002	86	98	98		98		
2003	86	98	98		98		
2004	87	99	99		99	94	94
2005	87	87	87	87	99		
2006	94	94	94	94	99		
2007	94	94	94	94	99		
2008	99	99	99	99	99		

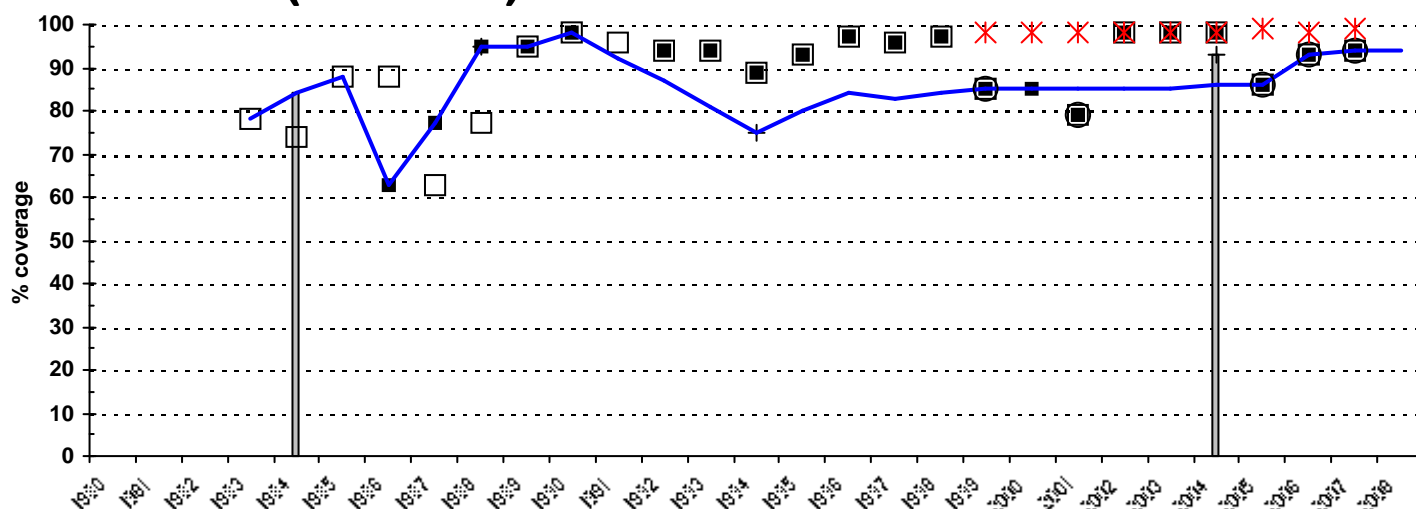
*Prior to 1998 national reports to WHO/UNICEF did not specify whether information was derived from administrative records, surveys or other sources.

**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.

China

MCV (1980-2008)



Description of trend

WHO/UNICEF estimates are based on the 1984, 1988 and 1994 survey points. Immunization coverage peaked in 1990 with national efforts to achieve universal childhood immunization (UCI) goals. Estimates from 1995-2004 are based on national reports calibrated to the level of the national report. Estimates from 2005 onward are based on national estimates derived from routine reporting of both the number of children vaccinated as well as the number of target children. The target number of children reported (10.5-11.3 million) through the immunization system significantly lower than the birth cohort estimated by the National Bureau of Statistics (NBS). From 2005 onward the national report calculate number of children for which no report was received by taking the difference between the NBS estimate of births and the reported target number of children. Fifty percent of these children were assumed to have been vaccinated even though no report was received. This adjusted number of children vaccinated is then divided by the NBS estimate of births.

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	78	78					
1984	84	74				84	
1985	88	88					
1986	63	88	63				
1987	77	63	77				
1988	95	77	95				95
1989	95	95	95				
1990	98	98	98				
1991	92	96					
1992	87	94	94				
1993	81	94	94				
1994	75	89	89				75
1995	80	93	93				
1996	84	97	97				
1997	83	96	96				
1998	84	97	97				
1999	85	85	85	85	98		
2000	85		85		98		
2001	85	79	79	79	98		
2002	85	98	98		98		
2003	85	98	98		98		
2004	86	98	98		98		
2005	86	86	86	86	99	93	93
2006	93	93	93	93	98		
2007	94	94	94	94	99		
2008	94						

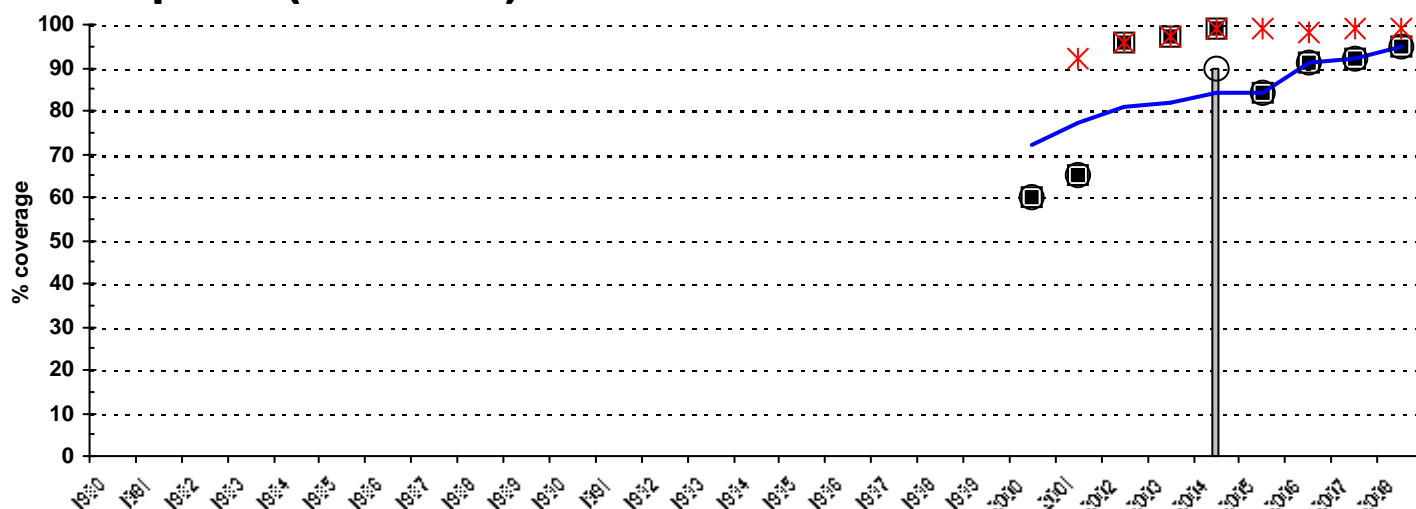
*Prior to 1998 national reports to WHO/UNICEF did not specify whether information was derived from administrative records, surveys or other sources.

**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.

China

HepB3 (1980-2008)



Description of trend

Hepatitis B vaccine introduced nationwide in 2002, reported data for 2000 and 2001 reflects sub-national usage. WHO/UNICEF estimates a based on reported doses administered calibrated with the 2000-2004 official government estimates. Estimates from 2005 onward are based national estimates derived from routine reporting of both the number of children vaccinated as well as the number of target children. The target number of children reported (10.5-11.3 million) through the immunization system is significantly lower than the birth cohort estimated by the National Bureau of Statistics (NBS). From 2005 onward the national report calculates the number of children for which no report was received taking the difference between the NBS estimate of births and the reported target number of children. Fifty percent of these children were assumed to have been vaccinated even though no report was received. This adjusted number of children vaccinated is then divided by the NBS estimate of births.

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	72	60	60	60			
2001	77	65	65	65	92		
2002	81	96	96		96		
2003	82	97	97		97		
2004	84	99	99	90	99	90	
2005	84	84	84	84	99		
2006	91	91	91	91	98		
2007	92	92	92	92	99		
2008	95	95	95	95	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.

China

Details Survey Data

Year Source

Antigen	Confirmation method	% coverage	Compliance with schedule	Age group	Sample size	% cards seen	Survey year	Comments
2004 2004年全国计划免疫审评报告								
BCG	Card <12 months	97.92	2040	12-23 m	155954	96.3	2004	Card means either record kept at hospital or certificate kept by parents. Children without either considered unvaccinated.
BCG	Card	97.55	2040	12-23 m	155954	96.3	2004	Card means either record kept at hospital or certificate kept by parents. Children without either considered unvaccinated.
DTP3	Card <12 months	93.3	2040	12-23 m	155954	96.3	2004	Card means either record kept at hospital or certificate kept by parents. Children without either considered unvaccinated.
DTP3	Card	93.04	2040	12-23 m	155954	96.3	2004	Card means either record kept at hospital or certificate kept by parents. Children without either considered unvaccinated.
Pol3	Card <12 months	94.23	2040	12-23 m	155954	96.3	2004	Card means either record kept at hospital or certificate kept by parents. Children without either considered unvaccinated.
Pol3	Card	93.8	2040	12-23 m	155954	96.3	2004	Card means either record kept at hospital or certificate kept by parents. Children without either considered unvaccinated.
MCV	Card <12 months	93.05	2040	12-23 m	155954	96.3	2004	Card means either record kept at hospital or certificate kept by parents. Children without either considered unvaccinated.
MCV	Card	92.66	2040	12-23 m	155954	96.3	2004	Card means either record kept at hospital or certificate kept by parents. Children without either considered unvaccinated.
HepB	Card <12 months	89.77	2040	12-23 m	171188	96.3	2004	Card means either record kept at hospital or certificate kept by parents. Children without either considered unvaccinated.
HepB	Card	85.45	2040	12-23 m	171188	96.3	2004	Card means either record kept at hospital or certificate kept by parents. Children without either considered unvaccinated.

1994 Report on Multi-Indicator Cluster Survey First Quarter 1995

BCG	C or H <12 month	89.4		12-23 m			1995	Confirmation Method assumed, Weighted
DTP1	C or H <12 month			12-23 m			1995	Age group?
DTP3	C or H <12 month	85		12-23 m			1995	Confirmation M. asumed, Age Group assumed as stated for BCG, Weighted
Pol3	C or H <12 month	87.4		12-23 m			1995	Confirmation M. asumed, Age Group assumed as stated for BCG, Weighted
MCV	C or H <12 month	74.7		12-23 m			1995	Confirmation M. asumed, Age Group assumed as stated for BCG, Weighted

1988 Review of the EPI in China (Draft) 1989

BCG	C or H <12 month	97.7		12-23 m			1989	
DTP1	C or H <12 month			12-23 m			1989	
DTP3	C or H <12 month	94.7		12-23 m			1989	
Pol3	C or H <12 month	95.6		12-23 m			1989	
MCV	C or H <12 month	95.3		12-23 m			1989	

1984 The EPI Programme in The People's Republic of China 1986

BCG	Card or History	58.91		12-24 m	77519		1985	
DTP1	Card or History			12-24 m	77519		1985	
DTP3	Card or History	73.33		12-24 m	77519		1985	
Pol3	Card or History	83.91		12-24 m	77519		1985	
MCV	Card or History	83.6		12-24 m	77519		1985	

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