

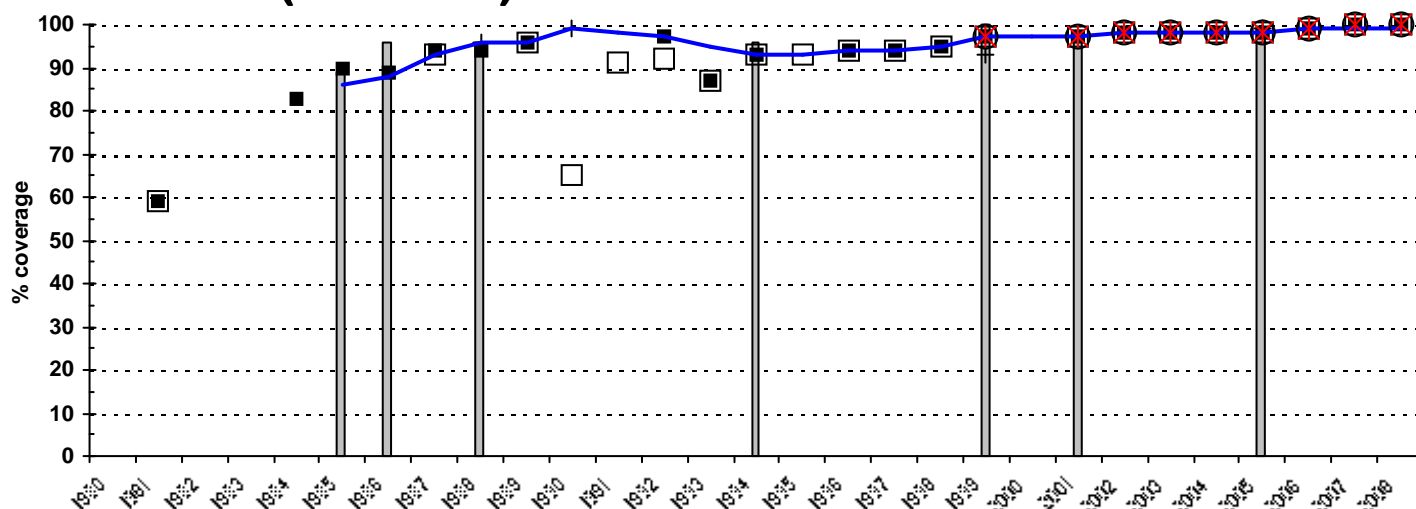
**WHO/UNICEF
Review of National Immunization Coverage
1980-2008**

Algeria

July, 2009

Algeria

BCG (1980-2008)



Description of trend

EPI programme began in 1986. Estimates are based on national reports supported by survey.

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		59	59				
1982							
1983							
1984			83				
1985	86		90			89	
1986	88		89			96	
1987	93	93	94				
1988	96		94			96	96
1989	96	96	96				
1990	99	65					99
1991	98	91					
1992	97	92	97				
1993	95	87	87				
1994	93	93	93			96	
1995	93	93					
1996	94	94	94				
1997	94	94	94				
1998	95	95	95				
1999	97	97	97	97	97	100	93
2000	97						
2001	97	97	97	97	97	98	
2002	98	98	98	98	98		
2003	98	98	98	98	98		
2004	98	98	98	98	98		
2005	98	98	98	98	98	99	99
2006	99	99	99	99	99		
2007	99	100	100	100	100		
2008	99	100	100	100	100		

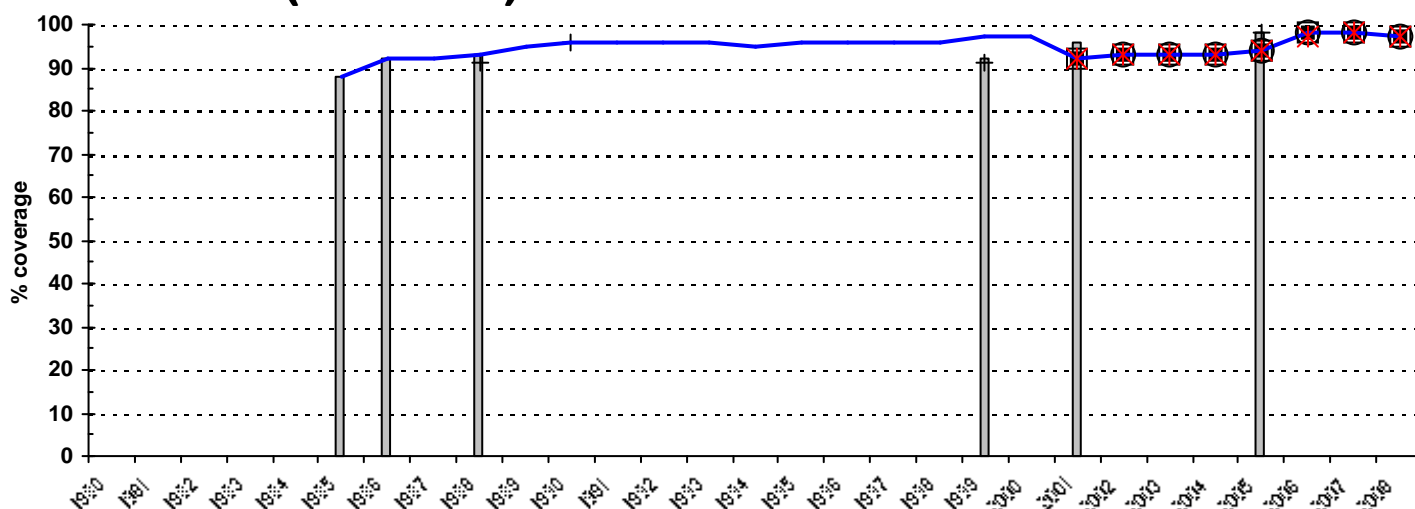
*Prior to 1998 national reports to WHO/UNICEF did not specify whether information was derived from administrative records, surveys or other sources.

**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.

Algeria

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 from 1985-1998 are based on survey results. The 1999 DTP1 survey estimate is lower than the corresponding DTP3 estimate. The estimates for 1999 and 2000 are based on 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 2000. Estimates from 2001 onward are based on the government's official estimates supported by survey 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	88					88	
1986	92					92	
1987	92						
1988	93					93	91
1989	95						
1990	96						96
1991	96						
1992	96						
1993	96						
1994	95						
1995	96						
1996	96						
1997	96						
1998	96						
1999	97					92	91
2000	97						
2001	92	92	92		92	96	
2002	93	93	93	93	93		
2003	93	93	93	93	93		
2004	93	93	93	93	93		
2005	94	94	94	94	94	98	98
2006	98	98	98	98	97		
2007	98	98	98	98	98		
2008	97	97	97	97	97		

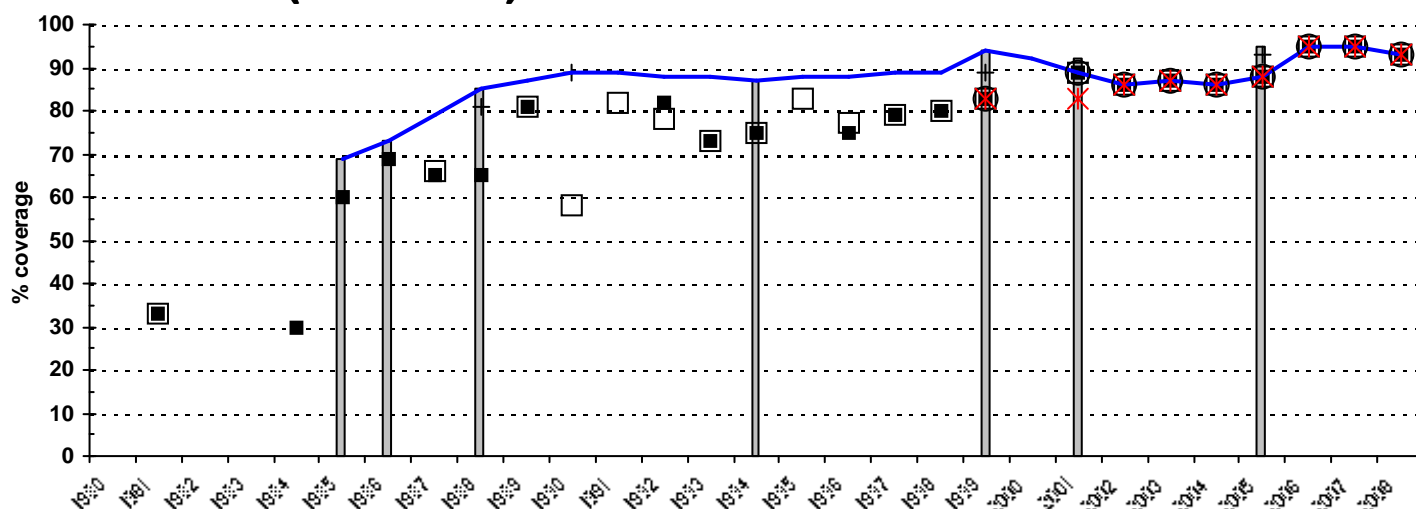
*Prior to 1998 national reports to WHO/UNICEF did not specify whether information was derived from administrative records, surveys or other sources.

**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.

Algeria

DTP3 (1980-2008)



Description of trend

EPI programme began in 1986. Estimates are based on survey data between 1985-2000; from 2001 onward estimates are based on the government's official estimates supported by survey 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		33	33				
1982							
1983							
1984			30				
1985	69		60			69	
1986	73		69			73	
1987	79	66	65				
1988	85		65			85	81
1989	87	81	81				
1990	89	58					89
1991	89	82					
1992	88	78	82				
1993	88	73	73				
1994	87	75	75			87	
1995	88	83					
1996	88	77	75				
1997	89	79	79				
1998	89	80	80				
1999	94	83	83	83	83	94	89
2000	92						
2001	89	89	89	89	83	92	
2002	86	86	86	86	86		
2003	87	87	87	87	87		
2004	86	86	86	86	86		
2005	88	88	88	88	88	95	93
2006	95	95	95	95	95		
2007	95	95	95	95	95		
2008	93	93	93	93	93		

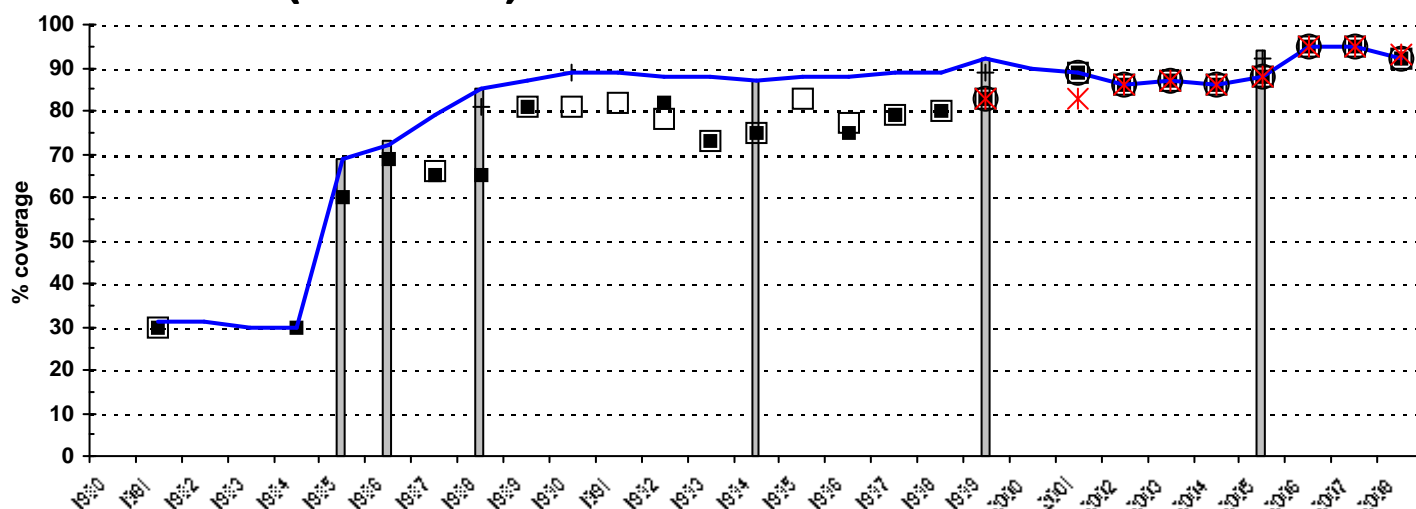
*Prior to 1998 national reports to WHO/UNICEF did not specify whether information was derived from administrative records, surveys or other sources.

**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.

Algeria

Pol3 (1980-2008)



Description of trend

EPI programme began in 1986. Estimates based on survey data between 1985-2000; from 2001 onward estimates are based on the government official estimates supported by survey 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	31	30	30				
1982	31						
1983	30						
1984	30		30				
1985	69		60			69	
1986	72		69			73	
1987	79	66	65				
1988	85		65				81
1989	87	81	81			85	
1990	89	81					89
1991	89	82					
1992	88	78	82				
1993	88	73	73				
1994	87	75	75			87	
1995	88	83					
1996	88	77	75				
1997	89	79	79				
1998	89	80	80				
1999	92	83	83	83	83	92	89
2000	90						
2001	89	89	89	89	83		
2002	86	86	86	86	86		
2003	87	87	87	87	87		
2004	86	86	86	86	86		
2005	88	88	88	88	88	94	92
2006	95	95	95	95	95		
2007	95	95	95	95	95		
2008	92	92	92	92	93		

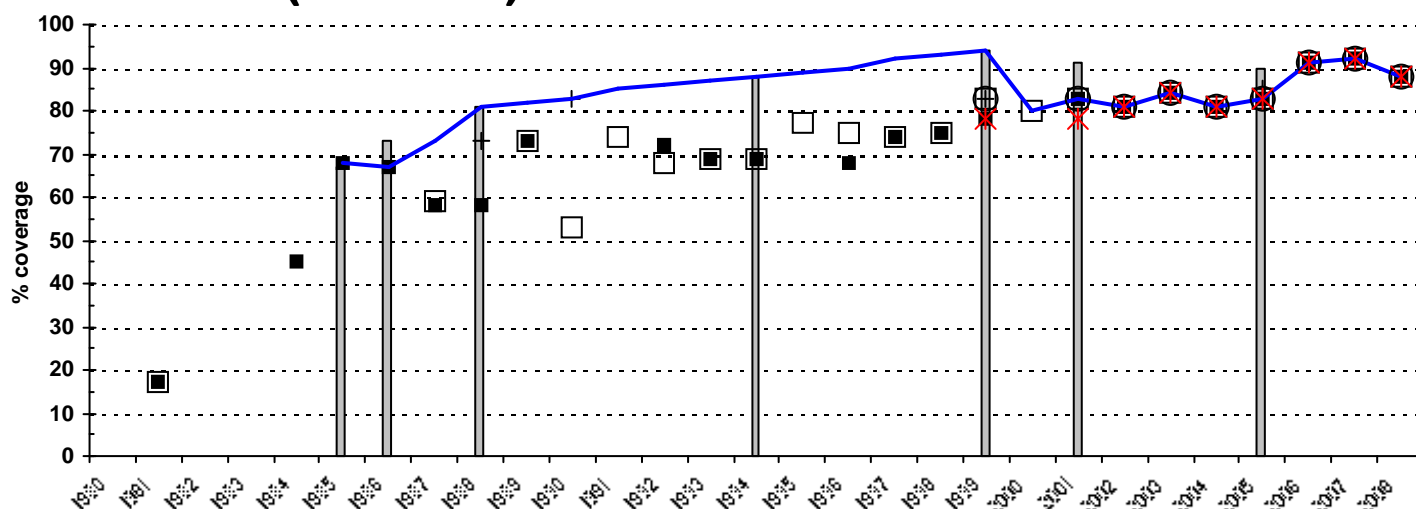
*Prior to 1998 national reports to WHO/UNICEF did not specify whether information was derived from administrative records, surveys or other sources.

**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.

Algeria

MCV (1980-2008)



Description of trend

EPI programme began in 1986. Estimates are based on survey data between 1985-1999; from 2000 onward estimates are based on the government's official estimates supported by survey 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		17	17				
1982							
1983							
1984			45				
1985	68		68			67	
1986	67		67			73	
1987	73	59	58				
1988	81		58			81	73
1989	82	73	73				
1990	83	53					83
1991	85	74					
1992	86	68	72				
1993	87	69	69				
1994	88	69	69			88	
1995	89	77					
1996	90	75	68				
1997	92	74	74				
1998	93	75	75				
1999	94	83	78	83	78	94	83
2000	80	80					
2001	83	83	83	83	78	91	
2002	81	81	81	81	81		
2003	84	84	84	84	84		
2004	81	81	81	81	81		
2005	83	83	83	83	83	90	85
2006	91	91	91	91	91		
2007	92	92	92	92	92		
2008	88	88	88	88	88		

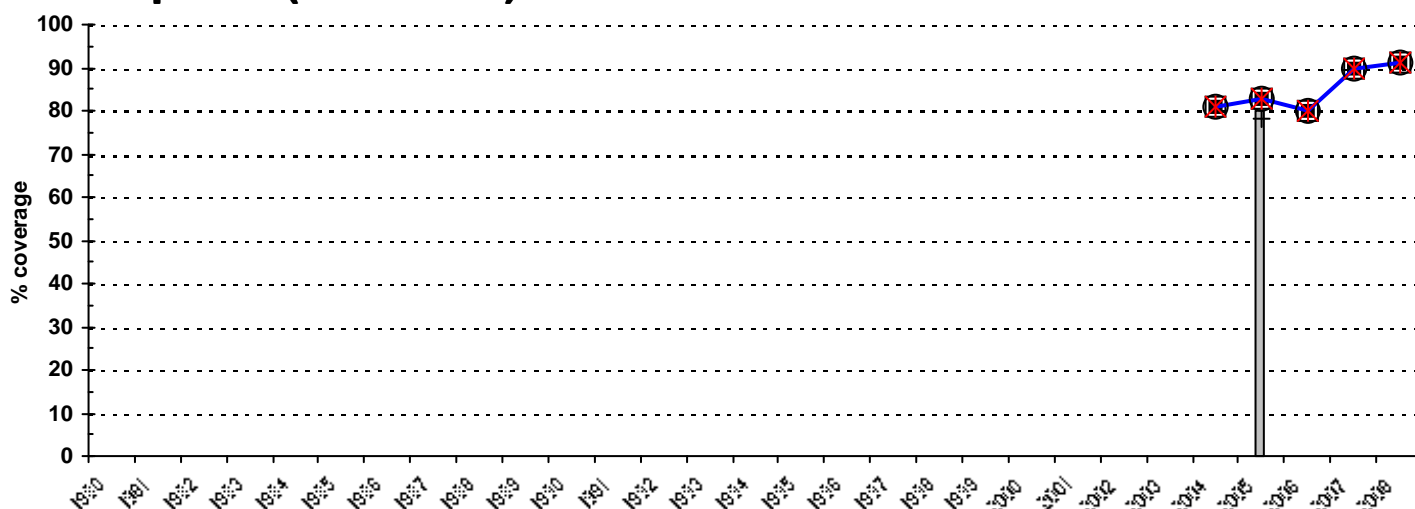
*Prior to 1998 national reports to WHO/UNICEF did not specify whether information was derived from administrative records, surveys or other sources.

**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.

Algeria

HepB3 (1980-2008)



Description of trend

Hepatitis B vaccine was introduced in 2003. Estimates are based on the government's official estimate supported by survey 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							
2003							
2004	81	81	81	81	81		
2005	83	83	83	83	83	80	78
2006	80	80	80	80	80		
2007	90	90	90	90	90		
2008	91	91	91	91	91		

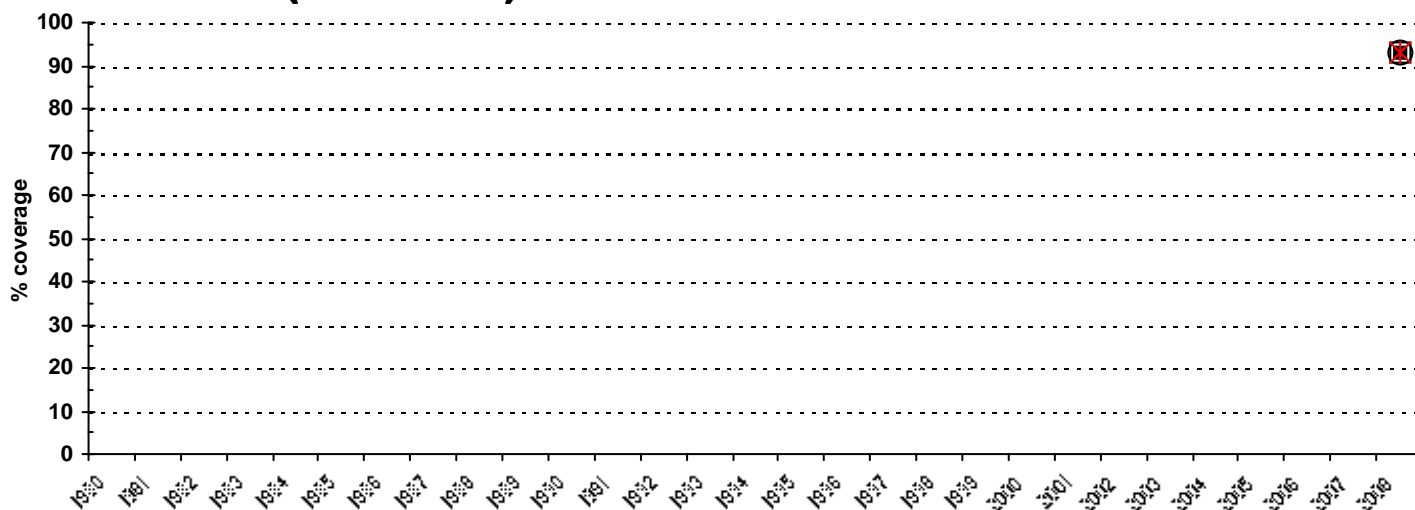
*Prior to 1998 national reports to WHO/UNICEF did not specify whether information was derived from administrative records, surveys or other sources.

**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.

Algeria

Hib3 (1980-2008)



Description of trend

DTP-Hib combination vaccine introduced in 2008

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							
2004							
2005							
2006							
2007							
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.

Algeria

Details Survey Data

Year Source

Antigen	Confirmation method	% coverage	Compliance with schedule	Age group	Sample size	% cards seen	Survey year	Comments
2005 République Algérienne Démocratique et Populaire, L'enquête nationale à indicateurs multiples MICS3 2006, Rapport Préliminaire								
BCG	Card or History	99		12-23 m	2994	88	2006	
BCG	C or H <12 month	98.9		12-23 m	2994	88	2006	
DTP1	Card or History	98.3		12-23 m	2994	88	2006	
DTP1	C or H <12 month	98.1		12-23 m	2994	88	2006	
DTP3	Card or History	94.8		12-23 m	2994	88	2006	
DTP3	C or H <12 month	92.9		12-23 m	2994	88	2006	
Pol3	Card or History	93.9		12-23 m	2994	88	2006	
Pol3	C or H <12 month	92		12-23 m	2994	88	2006	
MCV	Card or History	90.5		12-23 m	2994	88	2006	
MCV	C or H <12 month	85.3		12-23 m	2994	88	2006	
HepB	Card or History	79.8		12-23 m	2994	88	2006	
HepB	C or H <12 month	78.1		12-23 m	2994	88	2006	
2001 Enquête Algérienne sur la santé de la famille								
BCG	Card or History	97.9		12-23 m		87.1	2002	
DTP1	Card or History	96.3		12-23 m		87.1	2002	
DTP3	Card or History	92.3		12-23 m		87.1	2002	
MCV	Card or History	90.6		12-23 m		87.1	2002	
1999 Algérie, Enquête nationale sur les objectifs de la fin décennie Santé mères et enfants MICS 2 2000, 2001								
BCG	Card or History	99.7		12-23 m	837	92.8	2000	
BCG	C or H <12 month	93		12-23 m	837	92.8	2000	
DTP1	Card or History	92.1		12-23 m	837	92.8	2000	
DTP1	C or H <12 month	91		12-23 m	837	92.8	2000	
DTP3	Card or History	93.7		12-23 m	837	92.8	2000	
DTP3	C or H <12 month	89		12-23 m	837	92.8	2000	
Pol3	Card or History	91.5		12-23 m	837	92.8	2000	
Pol3	C or H <12 month	89		12-23 m	837	92.8	2000	
MCV	Card or History	94.2		12-23 m	837	92.8	2000	
MCV	C or H <12 month	83		12-23 m	837	92.8	2000	
PAB	Card or History	62		Women 15-49			2000	
1994 Enquête nationale sur les objectifs de la mi-décennie "MDG Algérie 1995", 1996								
BCG	Card or History	96		12-23 m		92	1995	
DTP1	Card or History			12-23 m		92	1995	
DTP3	Card or History	87		12-23 m		92	1995	
Pol3	Card or History	87		12-23 m		92	1995	
MCV	Card or History	88		12-23 m		92	1995	
PAB	Card or History	52		Women 15-49		41	1995	Children < 1 year
1990 Algérie, Enquête Nationale sur la Couverture Vaccinale 1991								
BCG	C or H <12 month	99.1		12-23 m	425	92.7	1991	
DTP1	C or H <12 month	95.6		12-23 m	425	92.7	1991	
DTP3	C or H <12 month	89.4		12-23 m	425	92.7	1991	
Pol3	C or H <12 month	89.4		12-23 m	425	92.7	1991	
MCV	C or H <12 month	82.8		12-23 m	425	92.7	1991	

Algeria

Details Survey Data

Year Source

Antigen	Confirmation method	% coverage	Compliance with schedule	Age group	Sample size	% cards seen	Survey year	Comments
1988 <i>Algerie, Rapport d'Evaluation de l'Enquête Nationale sur la Couverture Vaccinale 1989, 1990, total number of children according to WHO/EPI/CEIS/90.s</i>								
BCG	Card or History	96.3		12-23 m	29379	95.3	1989	
BCG	C or H <12 month	95.8		12-23 m	29379	95.3	1989	Age group assumed
DTP1	Card or History	92.7		12-23 m	29379	95.3	1989	
DTP1	C or H <12 month	90.6		12-23 m	29379	95.3	1989	Age group assumed
DTP3	Card or History	84.7		12-23 m	29379	95.3	1989	different number (81,4) in text
DTP3	C or H <12 month	81.1		12-23 m	29379	95.3	1989	Age group assumed
Pol3	Card or History	84.7		12-23 m	29379	95.3	1989	different number (81,4) in text
Pol3	C or H <12 month	81.1		12-23 m	29379	95.3	1989	Age group assumed
MCV	Card or History	80.8		12-23 m	29379	95.3	1989	
MCV	C or H <12 month	73.4		12-23 m	29379	95.3	1989	Age group assumed

1986

Algerie, Rapport d'Evaluation de l'Enquête Nationale sur la Couverture Vaccinale 1989, 1990

BCG	Card or History	96		12-23 m		94	1987	
DTP1	Card or History	92		12-23 m		94	1987	
DTP3	Card or History	73		12-23 m		94	1987	
Pol3	Card or History	73		12-23 m		94	1987	
MCV	Card or History	73		12-23 m		94	1987	

1985

Algerie, Rapport d'Evaluation de l'Enquête Nationale sur la Couverture Vaccinale 1989, 1990; total number of children according to WHO EPI Information System, January 1988

BCG	Card or History	89		12-23 m	1050	92	1986	
DTP1	Card or History	88		12-23 m	1050	92	1986	
DTP3	Card or History	69		12-23 m	1050	92	1986	
Pol3	Card or History	69		12-23 m	1050	92	1986	
MCV	Card or History	67		12-23 m	1050	92	1986	

Algeria

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.

Algeria

Year	PAB coverage estimate (%)
1980	
1981	
1982	
1983	
1984	
1985	
1986	
1987	
1988	
1989	3
1990	75
1991	18
1992	28
1993	40
1994	42
1995	44
1996	45
1997	58
1998	60
1999	62
2000	64
2001	65
2002	66
2003	66
2004	69
2005	69
2006	70
2007	70
2008	71