

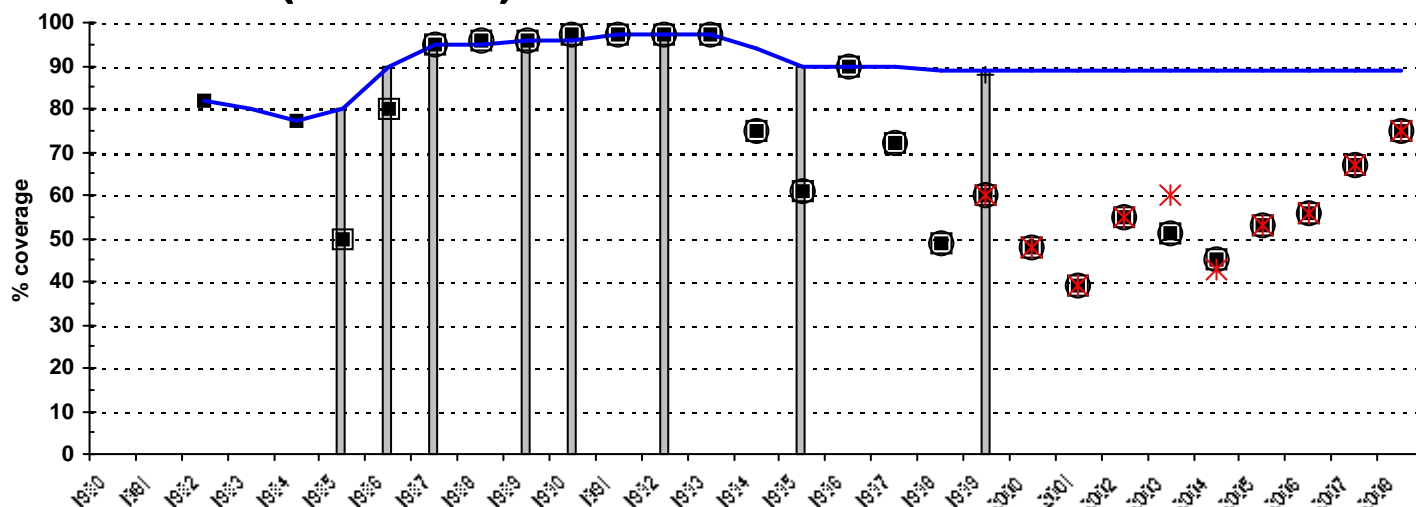
**WHO/UNICEF
Review of National Immunization Coverage
1980-2008**

Gabon

July, 2009

Gabon

BCG (1980-2008)



Description of trend

Coverage estimates are based on survey results. WHO/UNICEF recommend improving routine monitoring systems and conducting surveys determine levels of 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	82		82				
1983	80						
1984	77		77				
1985	80	50	50			80	
1986	90	80	80			90	
1987	95	95	95	95		95	
1988	95	96	96	96			
1989	96	96	96	96		96	
1990	96	97	97	97		96	
1991	97	97	97	97			
1992	97	97	97	97		97	
1993	97	97	97	97			
1994	94	75	75	75			
1995	90	61	61	61		90	
1996	90	90	90	90			
1997	90	72	72	72			
1998	89	49	49	49			
1999	89	60	60	60	60	89	88
2000	89	48	48	48	48		
2001	89	39	39	39	39		
2002	89	55	55	55	55		
2003	89	51	51	51	60		
2004	89	45	45	45	43		
2005	89	53	53	53	53		
2006	89	56	56	56	56		
2007	89	67	67	67	67		
2008	89	75	75	75	75		

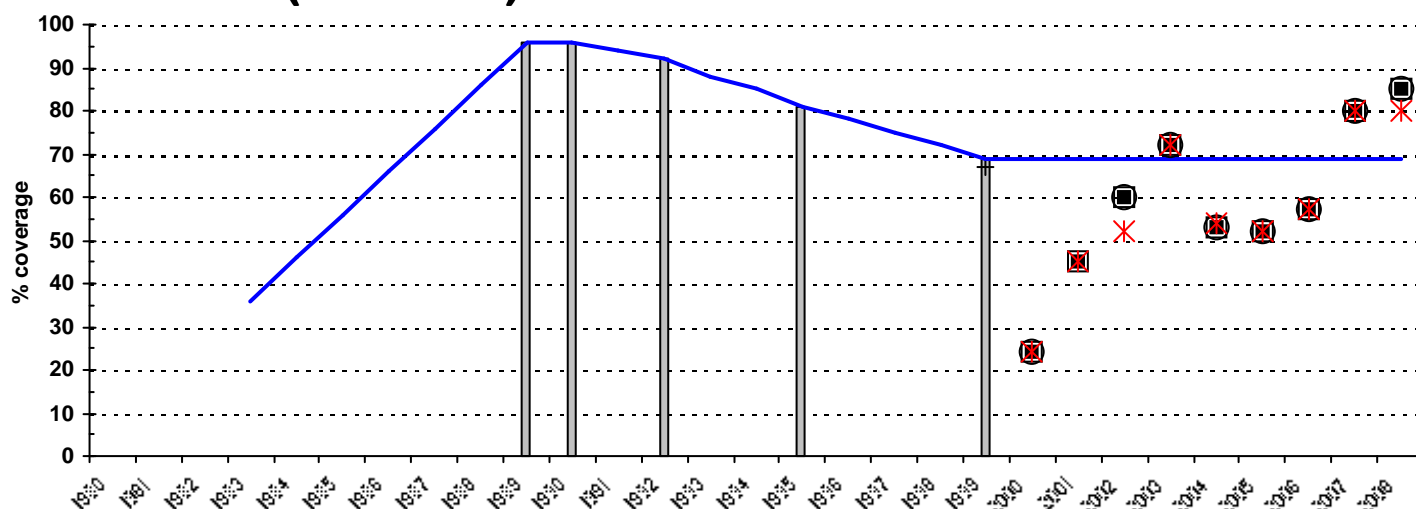
*Prior to 1998 national reports to WHO/UNICEF did not specify whether information was derived from administrative records, surveys or other sources.

**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.

Gabon

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 DTP1 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 101 countries which were published between 1980 and 2004. WHO/UNICEF recommend improving routine monitoring systems and conducting surveys to determine level of 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							
1983	36						
1984	46						
1985	56						
1986	66						
1987	76						
1988	86						
1989	96					96	
1990	96					96	
1991	94						
1992	92					92	
1993	88						
1994	85						
1995	81					81	
1996	78						
1997	75						
1998	72						
1999	69					69	67
2000	69	24	24	24	24		
2001	69	45	45		45		
2002	69	60	60	60	52		
2003	69	72	72	72	72		
2004	69	53	53	53	54		
2005	69	52	52	52	52		
2006	69	57	57	57	57		
2007	69	80	80	80	80		
2008	69	85	85	85	80		

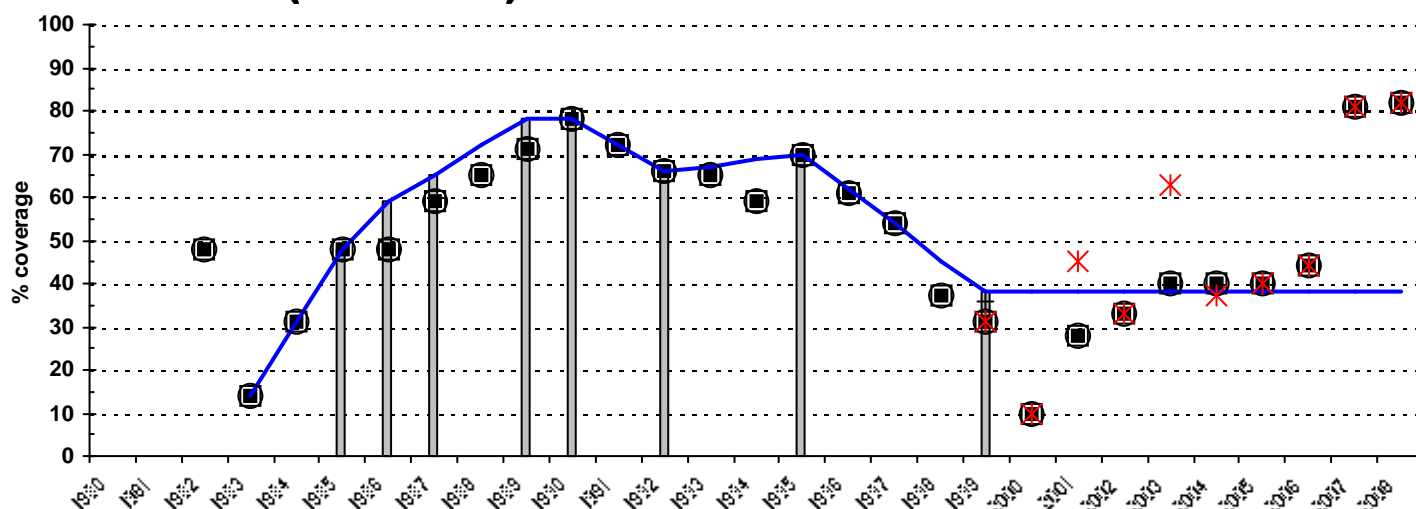
*Prior to 1998 national reports to WHO/UNICEF did not specify whether information was derived from administrative records, surveys or other sources.

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Gabon

DTP3 (1980-2008)



Description of trend

Coverage estimates are based on survey results. WHO/UNICEF recommend improving routine monitoring systems and conducting surveys to determine levels of 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		48	48	48			
1983	14	14	14	14			
1984	31	31	31	31			
1985	48	48	48	48		48	
1986	48	48	48	48		59	
1987	59	59	59	59		65	
1988	65	65	65	65			
1989	71	71	71	71		78	
1990	78	78	78	78		78	
1991	72	72	72	72			
1992	66	66	66	66		66	
1993	67	65	65	65			
1994	69	59	59	59			
1995	70	70	70	70		71	
1996	62	61	61	61			
1997	54	54	54	54			
1998	45	37	37	37			
1999	38	31	31	31	31	38	36
2000	38	10	10	10	10		
2001	38	28	28	28	45		
2002	38	33	33	33	33		
2003	38	40	40	40	63		
2004	38	40	40	40	37		
2005	38	40	40	40	40		
2006	38	44	44	44	44		
2007	38	81	81	81	81		
2008	38	82	82	82	82		

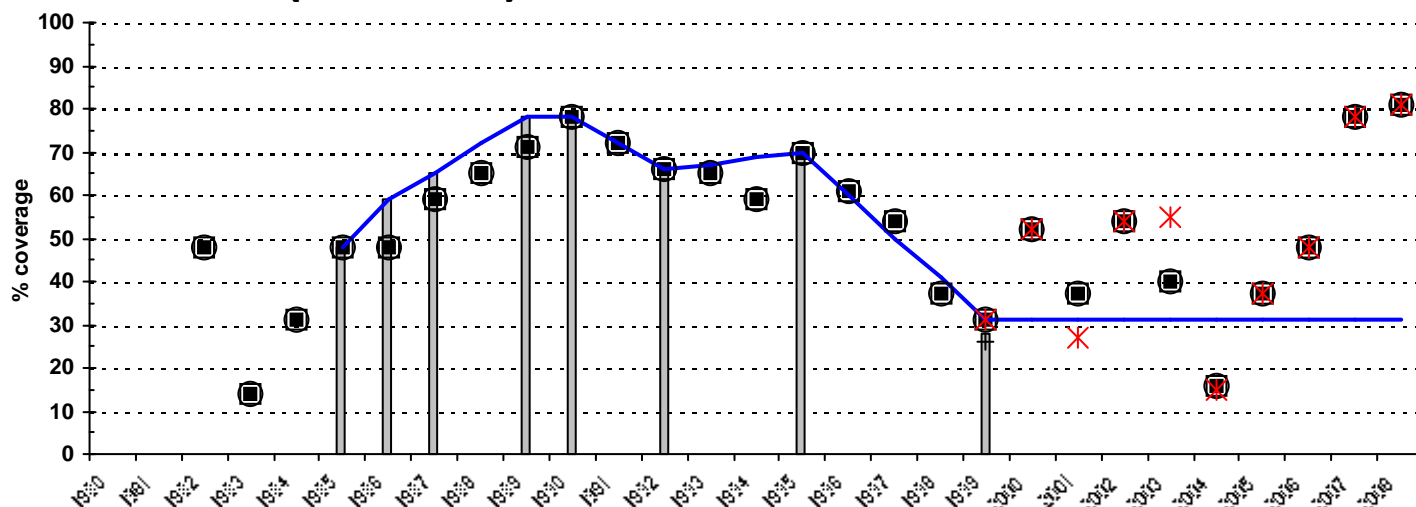
*Prior to 1998 national reports to WHO/UNICEF did not specify whether information was derived from administrative records, surveys or other sources.

**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.

Gabon

Pol3 (1980-2008)



Description of trend

Coverage estimates are based on survey results. WHO/UNICEF recommend improving routine monitoring systems and conducting surveys to determine levels of 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		48	48	48			
1983		14	14	14			
1984		31	31	31			
1985	48	48	48	48		48	
1986	48	48	48	48		59	
1987	65	59	59	59		65	
1988	72	65	65	65			
1989	78	71	71	71		78	
1990	78	78	78	78		78	
1991	72	72	72	72			
1992	66	66	66	66		66	
1993	67	65	65	65			
1994	69	59	59	59			
1995	70	70	70	70		71	
1996	60	61	61	61			
1997	50	54	54	54			
1998	41	37	37	37			
1999	31	31	31	31	31	28	26
2000	31	52	52	52	52		
2001	31	37	37	37	27		
2002	31	54	54	54	54		
2003	31	40	40	40	55		
2004	31	16	16	16	15		
2005	31	37	37	37	37		
2006	31	48	48	48	48		
2007	31	78	78	78	78		
2008	31	81	81	81	81		

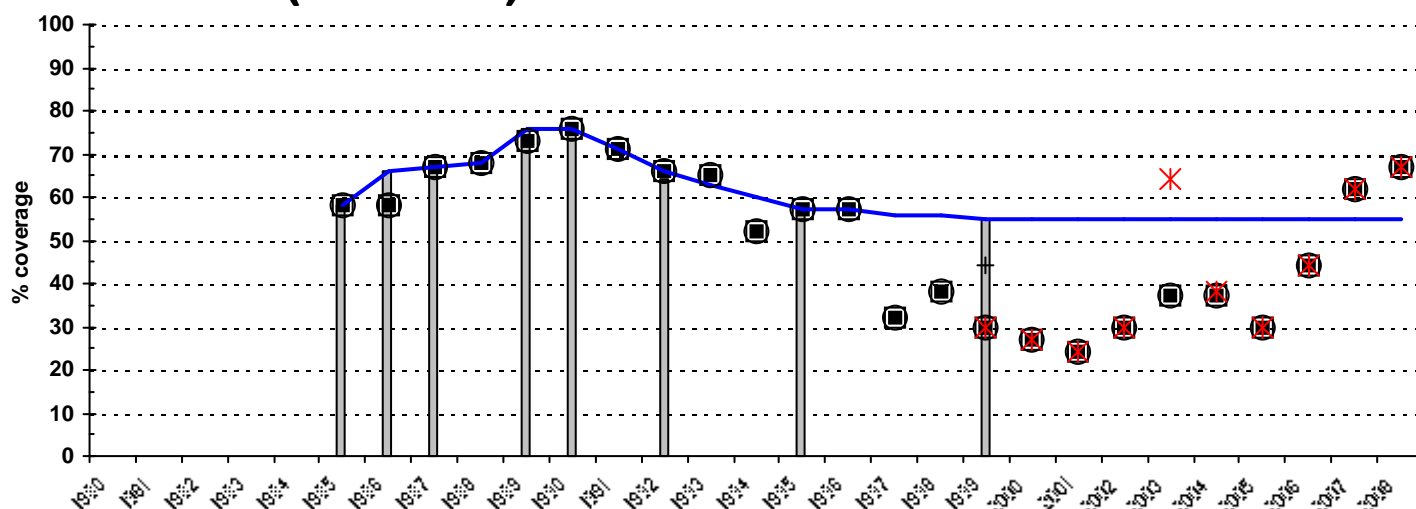
*Prior to 1998 national reports to WHO/UNICEF did not specify whether information was derived from administrative records, surveys or other sources.

**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.

Gabon

MCV (1980-2008)



Description of trend

Coverage estimates are based on survey results. WHO/UNICEF recommend improving routine monitoring systems and conducting surveys to determine levels of 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							
1983							
1984							
1985	58	58	58	58		58	
1986	66	58	58	58		66	
1987	67	67	67	67		68	
1988	68	68	68	68			
1989	76	73	73	73		76	
1990	76	76	76	76		76	
1991	71	71	71	71			
1992	66	66	66	66		64	
1993	63	65	65	65			
1994	60	52	52	52			
1995	57	57	57	57		57	
1996	57	57	57	57			
1997	56	32	32	32			
1998	56	38	38	38			
1999	55	30	30	30	30	55	44
2000	55	27	27	27	27		
2001	55	24	24	24	24		
2002	55	30	30	30	30		
2003	55	37	37	37	64		
2004	55	37	37	37	38		
2005	55	30	30	30	30		
2006	55	44	44	44	44		
2007	55	62	62	62	62		
2008	55	67	67	67	67		

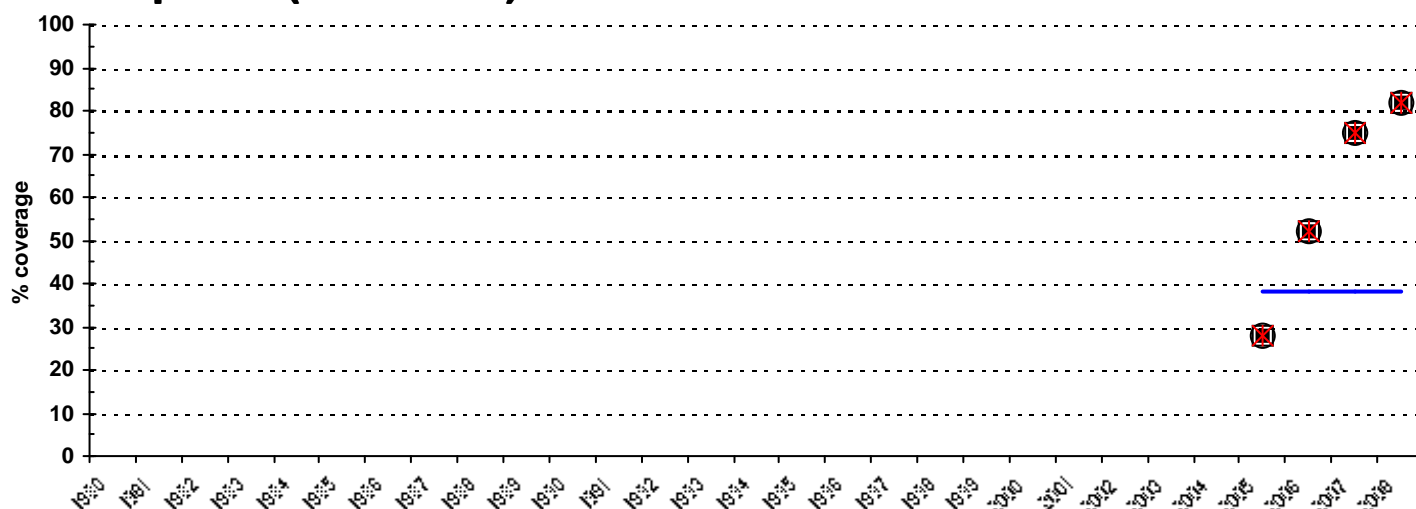
*Prior to 1998 national reports to WHO/UNICEF did not specify whether information was derived from administrative records, surveys or other sources.

**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.

Gabon

HepB3 (1980-2008)



Description of trend

Hepatitis B vaccine introduced in 2004. The estimates from 2005 onward are based on DTP3 estimates. WHO/UNICEF recommend improve routine monitoring systems and conducting surveys to determine levels of 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							
1983							
1984							
1985							
1986							
1987							
1988							
1989							
1990							
1991							
1992							
1993							
1994							
1995							
1996							
1997							
1998							
1999							
2000							
2001							
2002							
2003							
2004							
2005	38	28	28	28	28		
2006	38	52	52	52	52		
2007	38	75	75	75	75		
2008	38	82	82	82	82		

*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.

Gabon

Details Survey Data

Year Source

Antigen	Confirmation method	% coverage	Compliance with schedule	Age group	Sample size	% cards seen	Survey year	Comments
1999 Enquête Démographique et de Santé, Gabon 2000, 2001								
BCG	Card or History	89.1		12-23 m	803	62.8	2000	
BCG	C or H <12 month	87.7		12-23 m	803	62.8	2000	
DTP1	Card or History	69.4		12-23 m	803	62.8	2000	
DTP1	C or H <12 month	66.8		12-23 m	803	62.8	2000	
DTP3	Card or History	37.6		12-23 m	803	62.8	2000	
DTP3	C or H <12 month	35.7		12-23 m	803	62.8	2000	
Pol3	Card or History	28.3		12-23 m	803	62.8	2000	
Pol3	C or H <12 month	26.1		12-23 m	803	62.8	2000	
MCV	Card or History	54.8		12-23 m	803	62.8	2000	
MCV	C or H <12 month	44.2		12-23 m	803	62.8	2000	
1995 Rapport de l'Enquête Nationale a Indicateurs Multiples Gabon (1996)								
BCG	Card or History	89.5		11-23 m	3822	80.9	1996	not clear if BCG or Scar
DTP1	Card or History	80.6		11-23 m	3822	80.9	1996	
DTP3	Card or History	70.6		11-23 m	3822	80.9	1996	
Pol3	Card or History	70.6		11-23 m	3822	80.9	1996	
MCV	Card or History	57.3		11-23 m	3822	80.9	1996	
1992 Rapport de l'Enquête Nationale a Indicateurs Multiples Gabon (1996)								
BCG	Card or History	96.9		11-23 m			1993	
DTP1	Card or History	91.5		11-23 m			1993	
DTP3	Card or History	65.5		11-23 m			1993	
Pol3	Card or History	65.5		11-23 m			1993	
MCV	Card or History	64.5		11-23 m			1993	
1990 Rapport sur L'enquete National de Couverture Vaccinale Realisee 1991								
BCG	Card or History	96.4		12-23 m	223		1991	
DTP1	Card or History	96.4		12-23 m	223		1991	
DTP3	Card or History	78		12-23 m	223		1991	
Pol3	Card or History	78.5		12-23 m	223		1991	
MCV	Card or History	76.2		12-23 m	223		1991	
1989 Rapport sur l'Enquête Nationale de Couverture Vaccinale Réalisée en Janvier 1991 au Gabon								
BCG	Card or History	96	Crude?	12-23 m	233		1990	Card or History and Card Crude? ("Card brute") have the same coverage rates, Confirmation method not clear
DTP1	Card or History	96.4	Crude?	12-23 m	233		1990	Confirmation method not clear
DTP3	Card or History	78	Crude?	12-23 m	233		1990	Confirmation method not clear
Pol3	Card or History	78.5	Crude?	12-23 m	233		1990	Confirmation method not clear
MCV	Card or History	76.2	Crude?	12-23 m	233		1990	Confirmation method not clear
1987 Revue Internationale du Programme Elargi de Vaccination 1989								
BCG	Card or History	95		11-23 m		95	1988	
DTP1	Card or History			11-23 m		95	1988	
DTP3	Card or History	65		11-23 m		95	1988	
Pol3	Card or History	65		11-23 m		95	1988	
MCV	Card or History	68		11-23 m		95	1988	
PAB	Card or History	54		Women 15-49			1988	
1986 Revue Internationale du Programme Elargi de Vaccination 1989								

Gabon

Details Survey Data

Year Source

Antigen	Confirmation method	% coverage	Compliance with schedule	Age group	Sample size	% cards seen	Survey year	Comments
BCG	Card or History	90		11-23 m			1987	
DTP1	Card or History			11-23 m			1987	
DTP3	Card or History	59		11-23 m			1987	
Pol3	Card or History	59		11-23 m			1987	
MCV	Card or History	66		11-23 m			1987	

1985 *Revue Internationale du Programme Elargi de Vaccination 1989*

BCG	Card or History	80		11-23 m			1986	
DTP1	Card or History			11-23 m			1986	
DTP3	Card or History	48		11-23 m			1986	
Pol3	Card or History	48		11-23 m			1986	
MCV	Card or History	58		11-23 m			1986	

Gabon

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.

Gabon

Year	PAB coverage estimate (%)
1980	
1981	
1982	
1983	
1984	
1985	29
1986	43
1987	57
1988	63
1989	74
1990	84
1991	79
1992	74
1993	69
1994	44
1995	53
1996	33
1997	36
1998	40
1999	46
2000	39
2001	42
2002	64
2003	53
2004	58
2005	58
2006	63
2007	67
2008	73