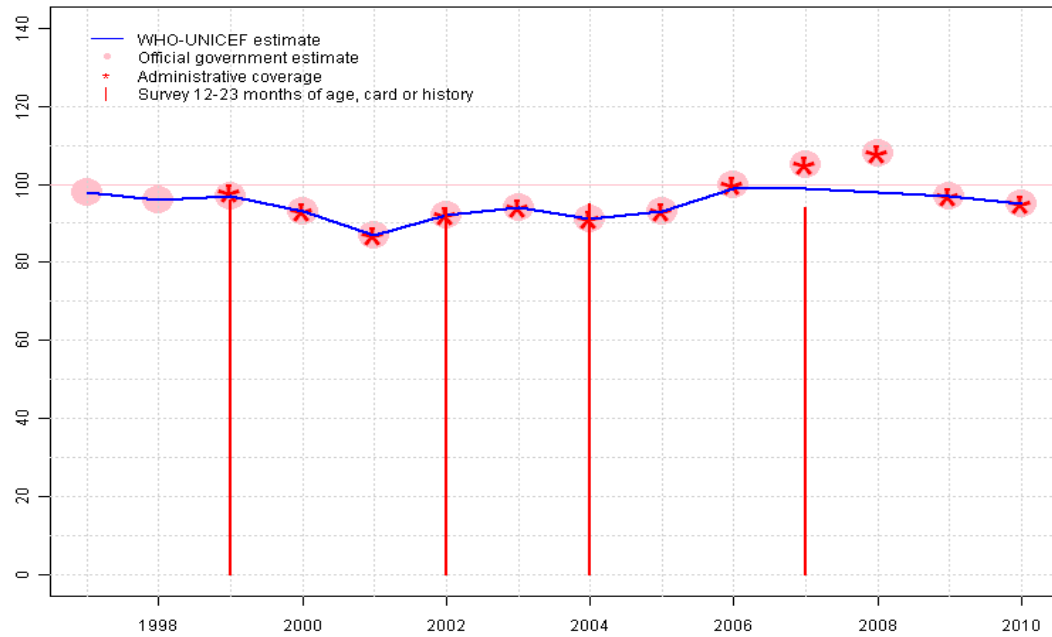


Peru - BCG

PER - BCG



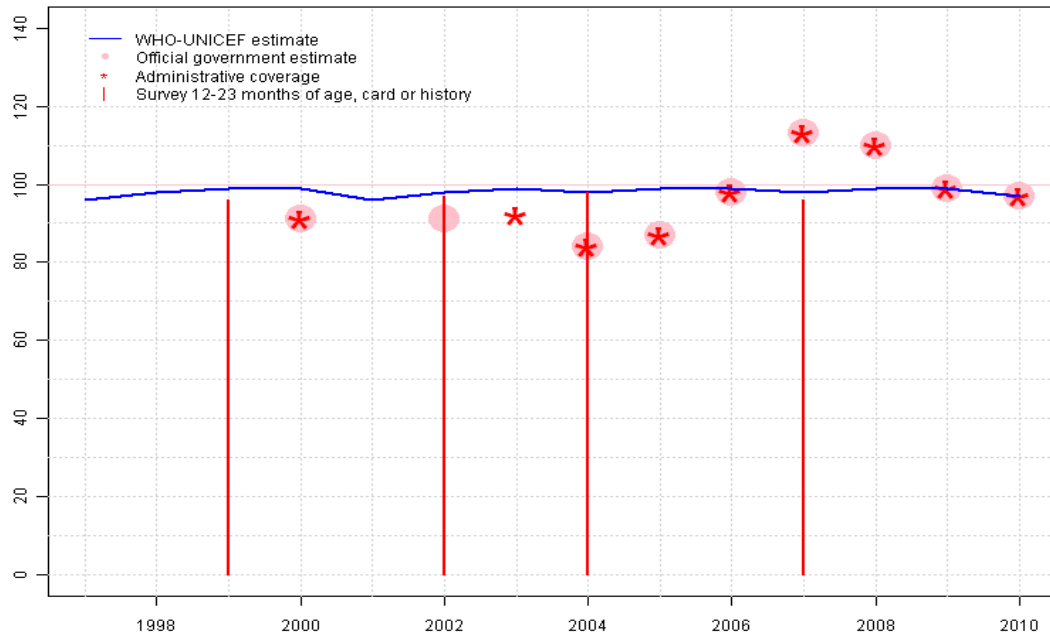
Description:

- 1997: Legacy estimate.
- 1998: Estimate based on reported data.
- 1999: Estimate based on reported data. 96 percent survey results supports reported data of 97 percent.
- 2000: Estimate based on reported data.
- 2001: Estimate based on reported data.
- 2002: Estimate based on reported data. 94 percent survey results supports reported data of 92 percent.
- 2003: Estimate based on reported data.
- 2004: Estimate based on reported data. 95 percent survey results supports reported data of 91 percent.
- 2005: Estimate based on reported data.
- 2006: Estimate based on reported data.
- 2007: No accepted reported data. Reported data of 99 percent estimated by interpolation between 2006 and 2009 supports trend in reported data. 94 percent survey results Reported data of 105 percent greater than 100 percent.
- 2008: Estimate based on interpolation between 2007 and 2009. Reported data of 108 percent greater than 100 percent. Current estimate of 98 percent changed from previous revision value of 99 percent.
- 2009: Estimate based on reported data. Current estimate of 97 percent changed from previous revision value of 99 percent.
- 2010: Estimate based on reported data.

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Estimate	98	96	97	93	87	92	94	91	93	99	99	98	97	95
Official	98	96	97	93	87	92	94	91	93	100	105	108	97	95
Administrative	NA	NA	98	93	87	92	94	91	93	100	105	108	97	95
Survey	NA	NA	96	NA	NA	94	NA	95	NA	NA	94	NA	NA	NA

Peru - DTP1

PER - DTP1



Description:

1997: Legacy estimate.

1998: No accepted DTP1 data. Estimate based on DTP3 coverage of 94. Current estimate of 98 percent changed from previous revision value of 94 percent.

1999: DTP1 coverage estimated based on DTP3 coverage of 99. Current estimate of 99 percent changed from previous revision value of 98 percent.

2000: DTP1 coverage estimated based on DTP3 coverage of 98. Current estimate of 99 percent changed from previous revision value of 98 percent.

2001: No accepted DTP1 data. Estimate based on DTP3 coverage of 90. Current estimate of 96 percent changed from previous revision value of 91 percent.

2002: DTP1 coverage estimated based on DTP3 coverage of 95.

2003: Reported data calibrated to 2002 and 2004 levels. Current estimate of 99 percent changed from previous revision value of 95 percent.

2004: Estimate based on survey results. 98 percent survey results does not support reported data of 84 percent.

2005: Reported data calibrated to 2004 and 2007 levels. Current estimate of 99 percent changed from previous revision value of 98 percent.

2006: Reported data calibrated to 2004 and 2007 levels. Current estimate of 99 percent changed from previous revision value of 98 percent.

2007: No accepted reported data. Reported data of 98 percent estimated by interpolation between 2006 and 2009 supports trend in reported data. 96 percent survey results Reported data of 113 percent greater than 100 percent.

2008: No accepted DTP1 data. Estimate based on DTP3 coverage of 99. Reported data of 110 percent greater than 100 percent. Current estimate of 99 percent changed from previous revision value of 98 percent.

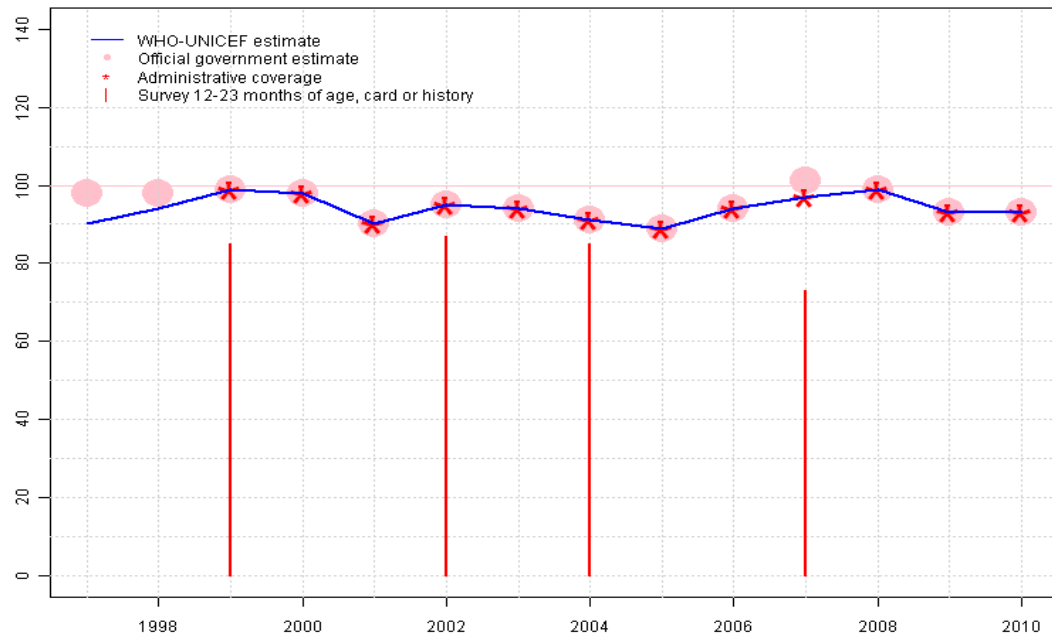
2009: Estimate based on reported data. Current estimate of 99 percent changed from previous revision value of 98 percent.

2010: Estimate based on reported data.

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Estimate	96	98	99	99	96	98	99	98	99	99	98	99	99	97
Official	NA	NA	NA	91	NA	91	NA	84	87	98	113	110	99	97
Administrative	NA	NA	NA	91	NA	NA	92	84	87	98	113	110	99	97
Survey	NA	NA	96	NA	NA	97	NA	98	NA	NA	96	NA	NA	NA

Peru - DTP3

PER - DTP3



	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Estimate	90	94	99	98	90	95	94	91	89	94	97	99	93	93
Official	98	98	99	98	90	95	94	91	89	94	101	99	93	93
Administrative	NA	NA	99	98	90	95	94	91	89	94	97	99	93	93
Survey	NA	NA	85	NA	NA	87	NA	85	NA	NA	73	NA	NA	NA

Description:

1997: Legacy estimate.

1998: Reported data calibrated to 1997 and 1999 levels.

1999: Estimate based on reported data. 93 percent survey results supports reported data of 99 percent. Survey results of 85 percent modified for recall bias to 93 percent based on 1st dose card or history coverage of 96 percent, 1st dose card only coverage of 58 percent and 3d dose card only coverage of 56 percent.

2000: Estimate based on reported data.

2001: Estimate based on reported data.

2002: Estimate based on reported data. 94 percent survey results supports reported data of 95 percent. Survey results of 87 percent modified for recall bias to 94 percent based on 1st dose card or history coverage of 97 percent, 1st dose card only coverage of 66 percent and 3d dose card only coverage of 64 percent.

2003: Estimate based on reported data.

2004: Estimate based on reported data. 95 percent survey results supports reported data of 91 percent. Survey results of 85 percent modified for recall bias to 95 percent based on 1st dose card or history coverage of 98 percent, 1st dose card only coverage of 68 percent and 3d dose card only coverage of 66 percent.

2005: Estimate based on reported data.

2006: Estimate based on reported data.

2007: No accepted reported data. Reported data of 97 percent estimated by interpolation between 2006 and 2008 supports trend in reported data. 89 percent survey results Reported data of 101 percent greater than 100 percent. Survey results of 73 percent modified for recall bias to 89 percent based on 1st dose card or history coverage of 96 percent, 1st dose card only coverage of 65 percent and 3d dose card only coverage of 60 percent.

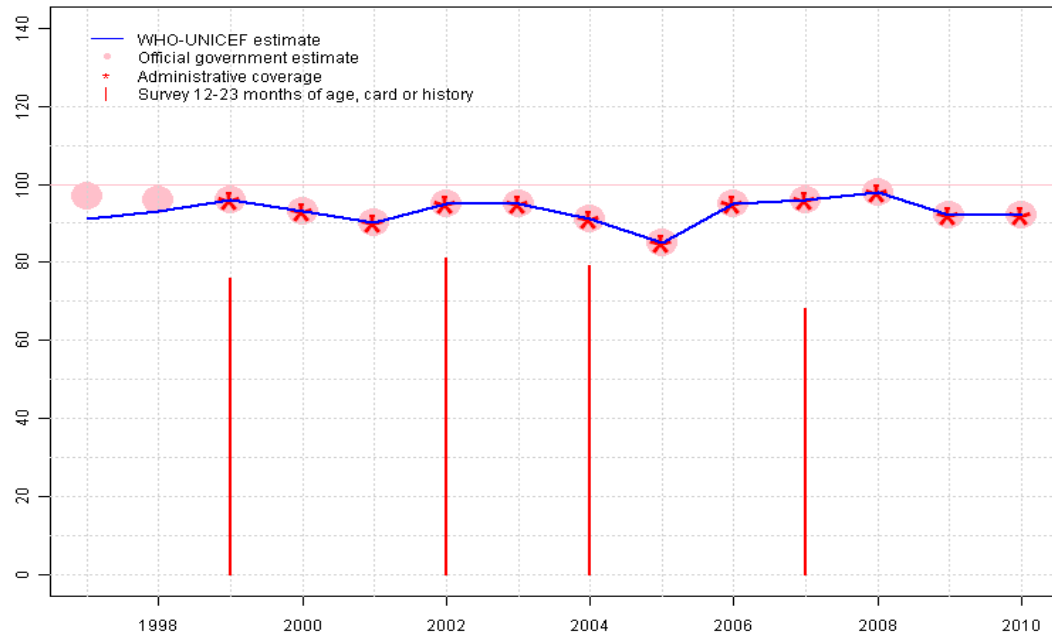
2008: Estimate based on reported data.

2009: Estimate based on reported data.

2010: Estimate based on reported data.

Peru - Pol3

PER - Pol3



	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Estimate	91	93	96	93	90	95	95	91	85	95	96	98	92	92
Official	97	96	96	93	90	95	95	91	85	95	96	98	92	92
Administrative	NA	NA	96	93	90	95	95	91	85	95	96	98	92	92
Survey	NA	NA	76	NA	NA	81	NA	79	NA	NA	68	NA	NA	NA

Description:

1997: Legacy estimate.

1998: Reported data calibrated to 1997 and 1999 levels. Current estimate of 93 percent changed from previous revision value of 94 percent.

1999: Estimate based on reported data. 89 percent survey results supports reported data of 96 percent. Survey results of 76 percent modified for recall bias to 89 percent based on 1st dose card or history coverage of 96 percent, 1st dose card only coverage of 58 percent and 3d dose card only coverage of 54 percent.

2000: Estimate based on reported data.

2001: Estimate based on reported data.

2002: Estimate based on reported data. 96 percent survey results supports reported data of 95 percent. Survey results of 81 percent modified for recall bias to 96 percent based on 1st dose card or history coverage of 97 percent, 1st dose card only coverage of 66 percent and 3d dose card only coverage of 65 percent.

2003: Estimate based on reported data.

2004: Estimate based on reported data. 94 percent survey results supports reported data of 91 percent. Survey results of 79 percent modified for recall bias to 94 percent based on 1st dose card or history coverage of 97 percent, 1st dose card only coverage of 68 percent and 3d dose card only coverage of 66 percent.

2005: Estimate based on reported data.

2006: Estimate based on reported data.

2007: Estimate based on reported data. Survey not accepted. Survey results not comparable with survey data

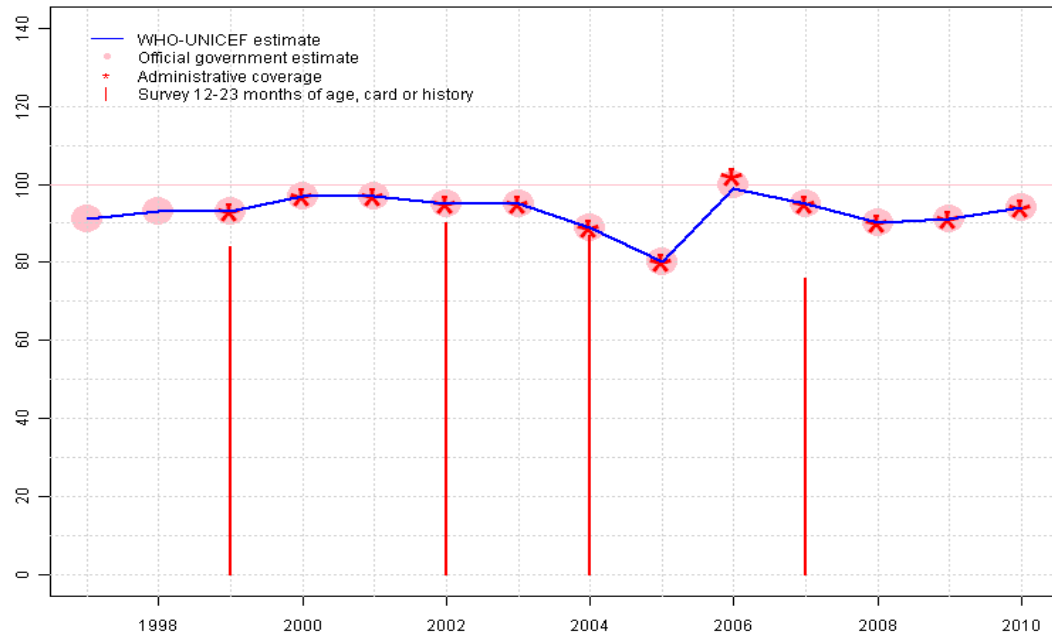
2008: Estimate based on reported data.

2009: Estimate based on reported data.

2010: Estimate based on reported data.

Peru - MCV

PER - MCV



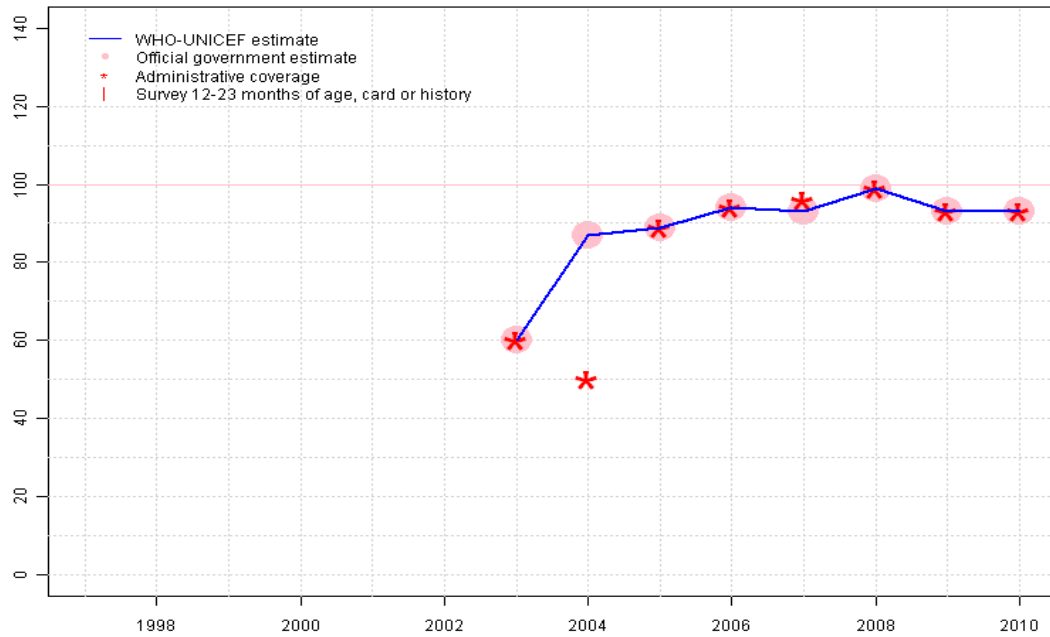
Description:

- 1997: Legacy estimate.
- 1998: Estimate based on reported data.
- 1999: Estimate based on reported data. 84 percent survey results supports reported data of 93 percent.
- 2000: Estimate based on reported data.
- 2001: Estimate based on reported data.
- 2002: Estimate based on reported data. 90 percent survey results supports reported data of 95 percent.
- 2003: Estimate based on reported data.
- 2004: Estimate based on reported data. 87 percent survey results supports reported data of 89 percent.
- 2005: Estimate based on reported data.
- 2006: Estimate based on reported data.
- 2007: Estimate based on reported data. Survey not accepted. Measles immunisation recommended at one year of age. Survey results based on cohort of 18-29 months which could lead to an underestimation of coverage
- 2008: Estimate based on reported data.
- 2009: Estimate based on reported data.
- 2010: Estimate based on reported data.

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Estimate	91	93	93	97	97	95	95	89	80	99	95	90	91	94
Official	91	93	93	97	97	95	95	89	80	100	95	90	91	94
Administrative	NA	NA	93	97	97	95	95	89	80	102	95	90	91	94
Survey	NA	NA	84	NA	NA	90	NA	87	NA	NA	76	NA	NA	NA

Peru - HepB3

PER - HepB3



Description:

2003: Estimate based on reported data. HepB partially introduced in 1998 nationally in 2005 reporting started in 2003.

2004: Estimate based on reported data.

2005: Estimate based on reported data.

2006: Estimate based on reported data.

2007: Estimate based on reported data.

2008: Estimate based on reported data.

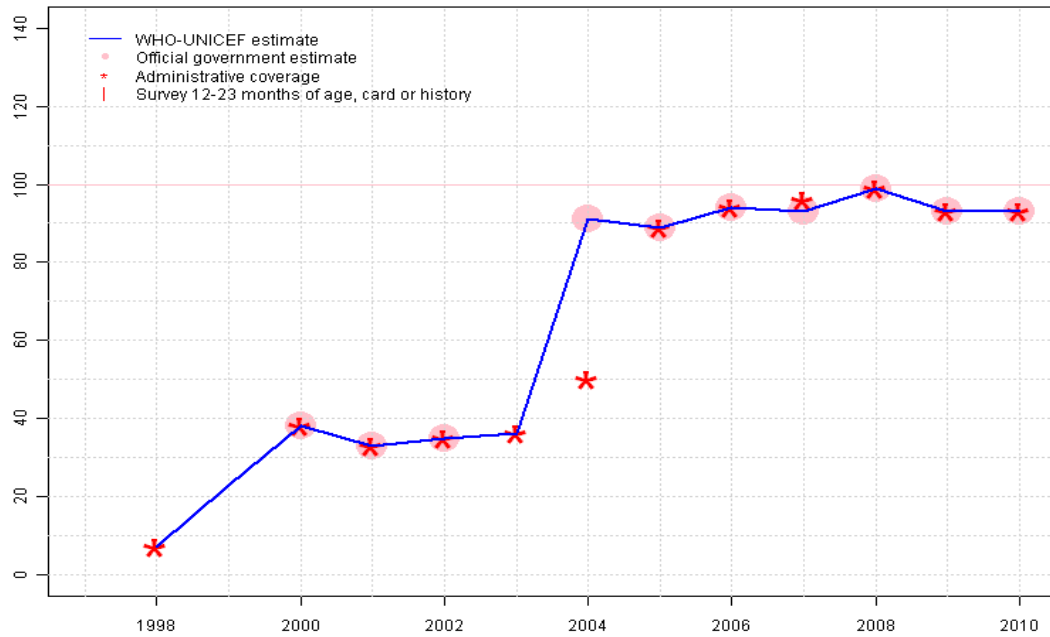
2009: Estimate based on reported data.

2010: Estimate based on reported data.

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Estimate	NA	NA	NA	NA	NA	NA	60	87	89	94	93	99	93	93
Official	NA	NA	NA	NA	NA	NA	60	87	89	94	93	99	93	93
Administrative	NA	NA	NA	NA	NA	NA	60	50	89	94	96	99	93	93
Survey	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Peru - Hib3

PER - Hib3



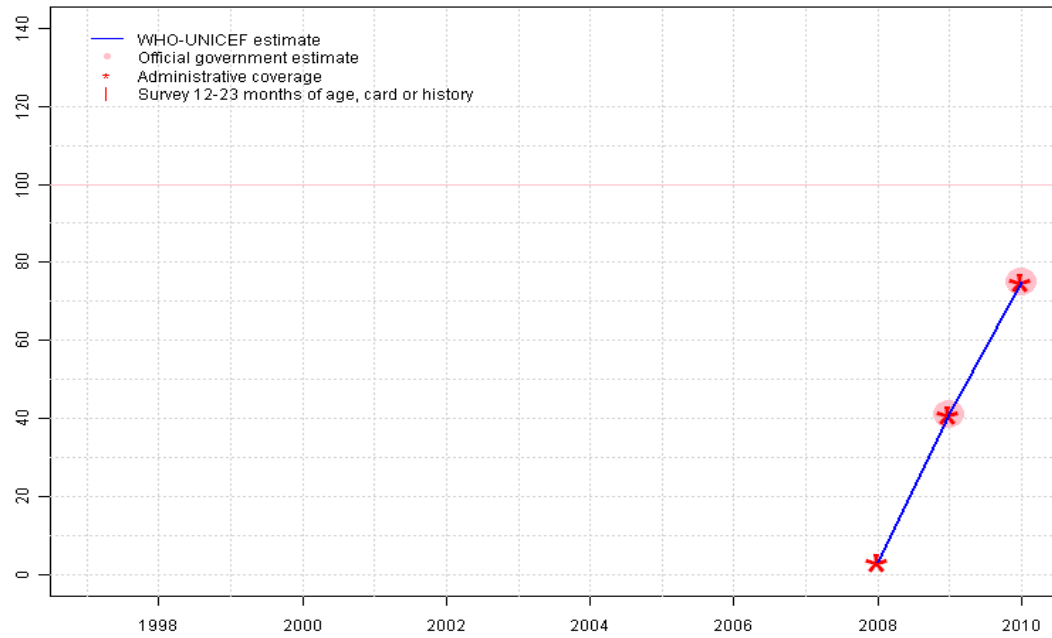
Description:

- 1998: Estimate based on reported data. Hib partially introduced in 1999 nationally in 2005 reporting started in 1998
- 1999: Estimate based on interpolation between 1998 and 2000.
- 2000: Estimate based on reported data.
- 2001: Estimate based on reported data.
- 2002: Estimate based on reported data.
- 2003: Estimate based on reported data.
- 2004: Estimate based on reported data.
- 2005: Estimate based on reported data.
- 2006: Estimate based on reported data.
- 2007: Estimate based on reported data.
- 2008: Estimate based on reported data.
- 2009: Estimate based on reported data.
- 2010: Estimate based on reported data.

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Estimate	NA	7	23	38	33	35	36	91	89	94	93	99	93	93
Official	NA	NA	NA	38	33	35	NA	91	89	94	93	99	93	93
Administrative	NA	7	NA	38	33	35	36	50	89	94	96	99	93	93
Survey	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Peru - RotaC

PER - RotaC



Description:

2008: Estimate based on reported data. Rota partially introduced in 2007 nationally in 2009 reporting started in 2008

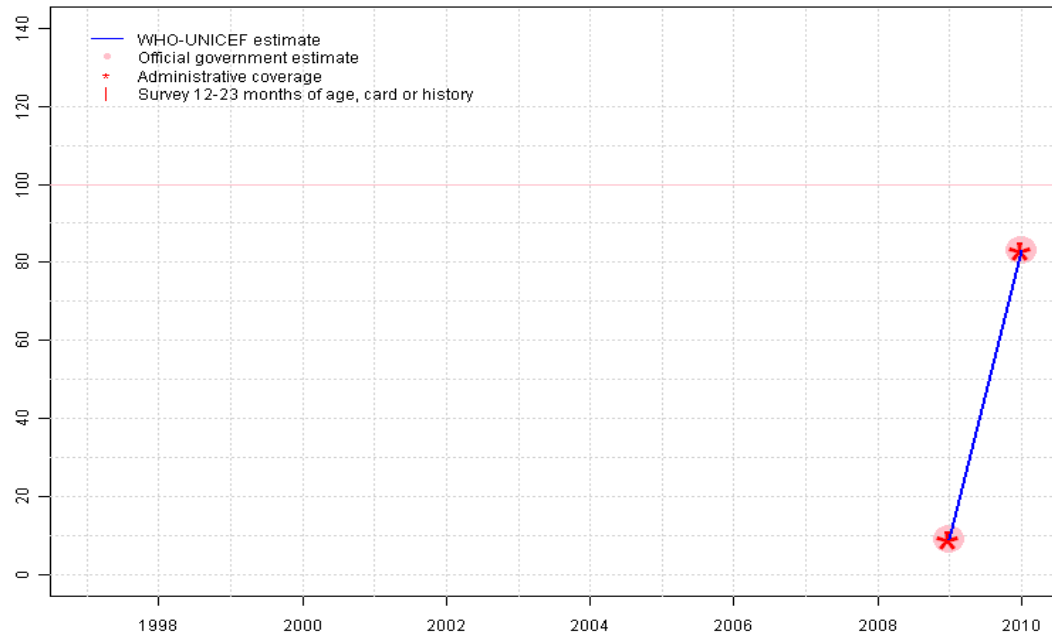
2009: Estimate based on reported data.

2010: Estimate based on reported data.

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Estimate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3	41	75
Official	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	41	75
Administrative	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	3	41	75
Survey	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Peru - PcV3

PER - PcV3



Description:

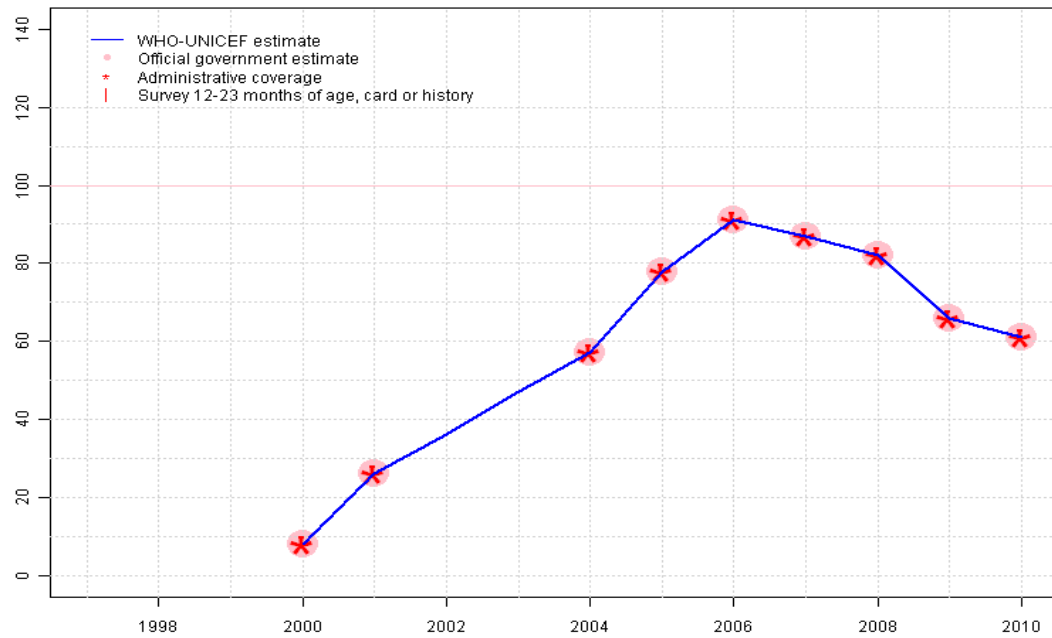
2009: Estimate based on reported data.

2010: Estimate based on reported data.

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Estimate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9	83
Official	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9	83
Administrative	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	9	83
Survey	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Peru - YFV

PER - YFV



Description:

- 2000: Estimate based on reported data. YFV introduced nationally in 2002 reporting started in 2000
- 2001: Estimate based on reported data.
- 2002: Estimate based on interpolation between 2001 and 2004.
- 2003: Estimate based on interpolation between 2001 and 2004.
- 2004: Estimate based on reported data.
- 2005: Estimate based on reported data.
- 2006: Estimate based on reported data.
- 2007: Estimate based on reported data.
- 2008: Estimate based on reported data.
- 2009: Estimate based on reported data. Due to vaccine shortages yellow fever vaccine administered in districts at risk only.
- 2010: Estimate based on reported data.

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Estimate	NA	NA	NA	8	26	36	47	57	78	91	87	82	66	61
Official	NA	NA	NA	8	26	NA	NA	57	78	91	87	82	66	61
Administrative	NA	NA	NA	8	26	NA	NA	57	78	91	87	82	66	61
Survey	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Peru - survey details

2007 Perú: Encuesta Demográfica y de Salud Familiar - ENDES Continua 2009

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	Card	61	18-29 m	1639	66
BCG	History	32	18-29 m	1639	66
BCG	Card or History	94	18-29 m	1639	66
BCG	C or H <12 months	94	18-29 m	1639	66
DTP1	Card or History	96	18-29 m	1639	66
DTP1	History	31	18-29 m	1639	66
DTP1	C or H <12 months	95	18-29 m	1639	66
DTP1	Card	65	18-29 m	1639	66
DTP3	Card	60	18-29 m	1639	66
DTP3	C or H <12 months	71	18-29 m	1639	66
DTP3	Card or History	73	18-29 m	1639	66
DTP3	History	13	18-29 m	1639	66
MCV	Card	53	18-29 m	1639	66
MCV	C or H <12 months	70	18-29 m	1639	66
MCV	History	23	18-29 m	1639	66
MCV	Card or History	76	18-29 m	1639	66
Pol1	History	29	18-29 m	1639	66
Pol1	Card or History	92	18-29 m	1639	66
Pol1	C or H <12 months	92	18-29 m	1639	66
Pol1	Card	63	18-29 m	1639	66
Pol3	History	10	18-29 m	1639	66
Pol3	Card or History	68	18-29 m	1639	66
Pol3	C or H <12 months	67	18-29 m	1639	66
Pol3	Card	58	18-29 m	1639	66

2004 Peru Encuesta Demográfica y de Salud Familiar ENDES Continua 2004-2005

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	Card	65	18-29 m	859	68
BCG	C or H <12 months	95	18-29 m	859	68
BCG	Card or History	95	18-29 m	859	68
BCG	History	30	18-29 m	859	68
DTP1	C or H <12 months	97	18-29 m	859	68

DTP1	Card	68	18-29 m	859	68
DTP1	Card or History	98	18-29 m	859	68
DTP1	History	30	18-29 m	859	68
DTP3	History	20	18-29 m	859	68
DTP3	C or H <12 months	82	18-29 m	859	68
DTP3	Card	66	18-29 m	859	68
DTP3	Card or History	85	18-29 m	859	68
MCV	Card or History	87	18-29 m	859	68
MCV	Card	60	18-29 m	859	68
MCV	History	27	18-29 m	859	68
MCV	C or H <12 months	83	18-29 m	859	68
Pol1	C or H <12 months	96	18-29 m	859	68
Pol1	Card	68	18-29 m	859	68
Pol1	Card or History	97	18-29 m	859	68
Pol1	History	29	18-29 m	859	68
Pol3	C or H <12 months	76	18-29 m	859	68
Pol3	Card	66	18-29 m	859	68
Pol3	Card or History	79	18-29 m	859	68
Pol3	History	14	18-29 m	859	68

2002 Perú Encuesta Demográfica y de Salud Familiar, ENDES Continua 2004

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	Card	62	18-29 m	455	67
BCG	Card or history	94	18-29 m	455	67
BCG	History	32	18-29 m	455	67
BCG	C or H <18 months	94	18-29 m	455	67
DTP1	Card	66	18-29 m	455	67
DTP1	Card or history	97	18-29 m	455	67
DTP1	History	32	18-29 m	455	67
DTP1	C or H <18 months	96	18-29 m	455	67
DTP3	C or H <18 months	83	18-29 m	455	67
DTP3	History	23	18-29 m	455	67
DTP3	Card or history	87	18-29 m	455	67
DTP3	Card	64	18-29 m	455	67
MCV	History	30	18-29 m	455	67
MCV	Card or history	90	18-29 m	455	67
MCV	Card	60	18-29 m	455	67

Peru - survey details

MCV	C or H <18 months	85	18-29 m	455	67
Pol1	C or H <18 months	96	18-29 m	455	67
Pol1	Card	66	18-29 m	455	67
Pol1	History	31	18-29 m	455	67
Pol1	Card or history	97	18-29 m	455	67
Pol3	Card	65	18-29 m	455	67
Pol3	History	16	18-29 m	455	67
Pol3	Card or history	81	18-29 m	455	67
Pol3	C or H <18 months	78	18-29 m	455	67

1999 Peru, Encuesta Demográfica y de Salud Familiar 2000, 2001

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	Card or History	96	12-23 m	2353	58
BCG	Card	57	18-29 m	2353	58

BCG	History	40	18-29 m	2353	58
DTP1	Card or History	96	12-23 m	2353	58
DTP1	History	39	18-29 m	2353	58
DTP1	Card	58	18-29 m	2353	58
DTP3	Card or History	85	12-23 m	2353	58
DTP3	History	29	18-29 m	2353	58
DTP3	Card	56	18-29 m	2353	58
MCV	Card or History	84	12-23 m	2353	58
MCV	History	34	18-29 m	2353	58
MCV	Card	51	18-29 m	2353	58
Pol1	Card or History	96	12-23 m	2353	58
Pol1	Card	58	18-29 m	2353	58
Pol1	History	38	18-29 m	2353	58
Pol3	Card or History	76	12-23 m	2353	58
Pol3	Card	54	18-29 m	2353	58
Pol3	History	22	18-29 m	2353	58

Further information and estimates for 1980-1996 are available at:

http://www.childinfo.org/immunization_countryreports.html

http://www.who.int/immunization_monitoring/routine/immunization_coverage/en/index4.html

Peru

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.

Year	PAB coverage estimate (%)
1997	62
1998	64
1999	65
2000	66
2001	62
2002	62
2003	63
2004	65
2005	65
2006	66
2007	67
2008	67
2009	67
2010	85

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.