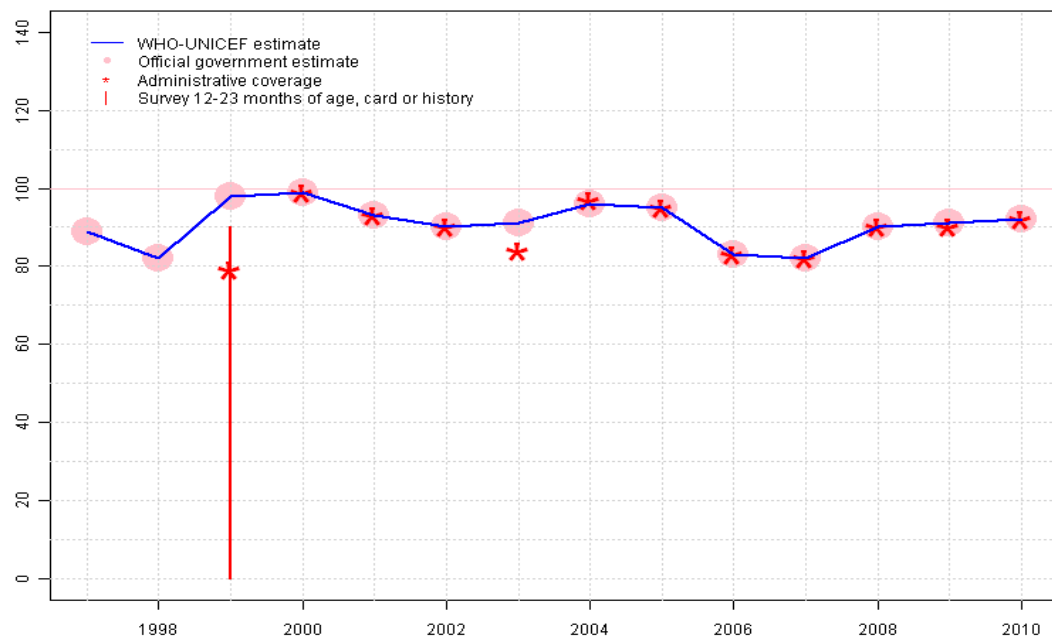


Venezuela - BCG

VEN - BCG



Description:

1997: Legacy estimate.

1998: Estimate based on reported data.

1999: Estimate based on reported data. Survey results not accepted. Sample size 0 less than 300.

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. Current estimate of 96 percent changed from previous revision value of 97 percent.

2005: Estimate based on reported data.

2006: Estimate based on reported data.

2007: Estimate based on reported data.

2008: Estimate based on reported data.

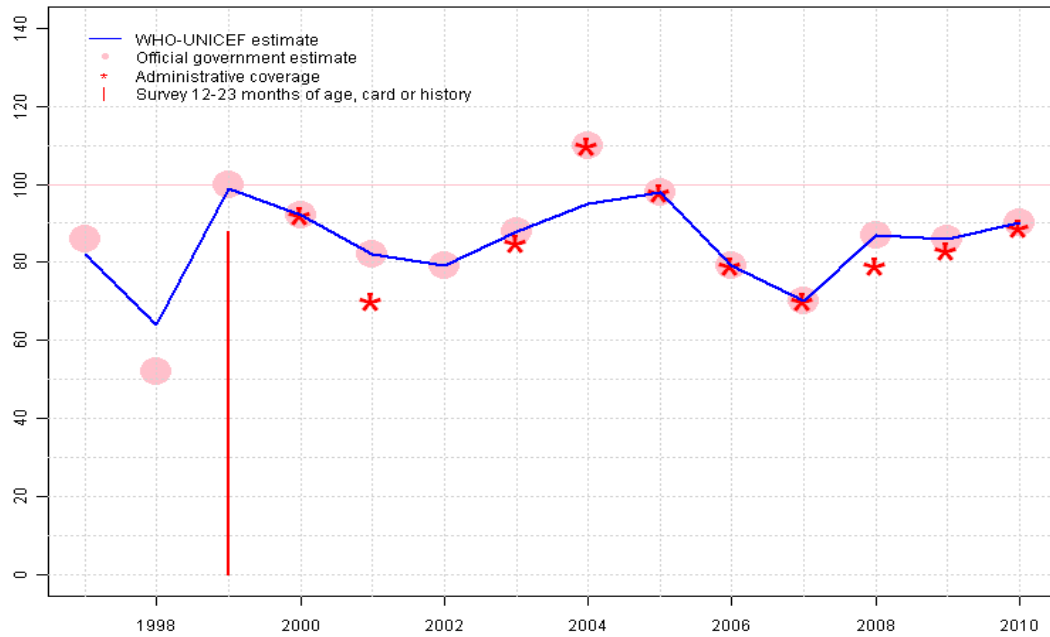
2009: Estimate based on reported data. Current estimate of 91 percent changed from previous revision value of 87 percent.

2010: Estimate based on reported data.

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Estimate	89	82	98	99	93	90	91	96	95	83	82	90	91	92
Official	89	82	98	99	93	90	91	96	95	83	82	90	91	92
Administrative	NA	NA	79	99	93	90	84	97	95	83	82	90	90	92
Survey	NA	NA	90	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Venezuela - DTP1

VEN - DTP1



	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Estimate	82	64	99	92	82	79	88	95	98	79	70	87	86	90
Official	86	52	100	92	82	79	88	110	98	79	70	87	86	90
Administrative	NA	NA	NA	92	70	NA	85	110	98	79	70	79	83	89
Survey	NA	NA	88	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Description:

1997: Legacy estimate.

1998: No accepted DTP1 data. Estimate based on DTP3 coverage of 39. Reported data not accepted due to a decline from 86 percent to 52 percent with a subsequent increase to 100 percent. Current estimate of 64 percent changed from previous revision value of 85 percent.

1999: Reported data calibrated to 1997 and 2000 levels. Survey results not accepted. Sample size 0 less than 300. Current estimate of 99 percent changed from previous revision value of 89 percent.

2000: Estimate is based on the reported data.

2001: Estimate based on reported data. Current estimate of 82 percent changed from previous revision value of 85 percent.

2002: Estimate based on reported data. Current estimate of 79 percent changed from previous revision value of 85 percent.

2003: Estimate based on reported data. Current estimate of 88 percent changed from previous revision value of 85 percent.

2004: No accepted DTP1 data. Estimate based on DTP3 coverage of 86. Reported data of 110 percent greater than 100 percent. Reported data not accepted due to an increase from 88 percent to 110 percent with a subsequent decrease to 98 percent. Current estimate of 95 percent changed from previous revision value of 92 percent.

2005: Estimate based on reported data.

2006: Estimate based on reported data. Current estimate of 79 percent changed from previous revision value of 78 percent.

2007: Estimate based on reported data. Current estimate of 70 percent changed from previous revision value of 69 percent.

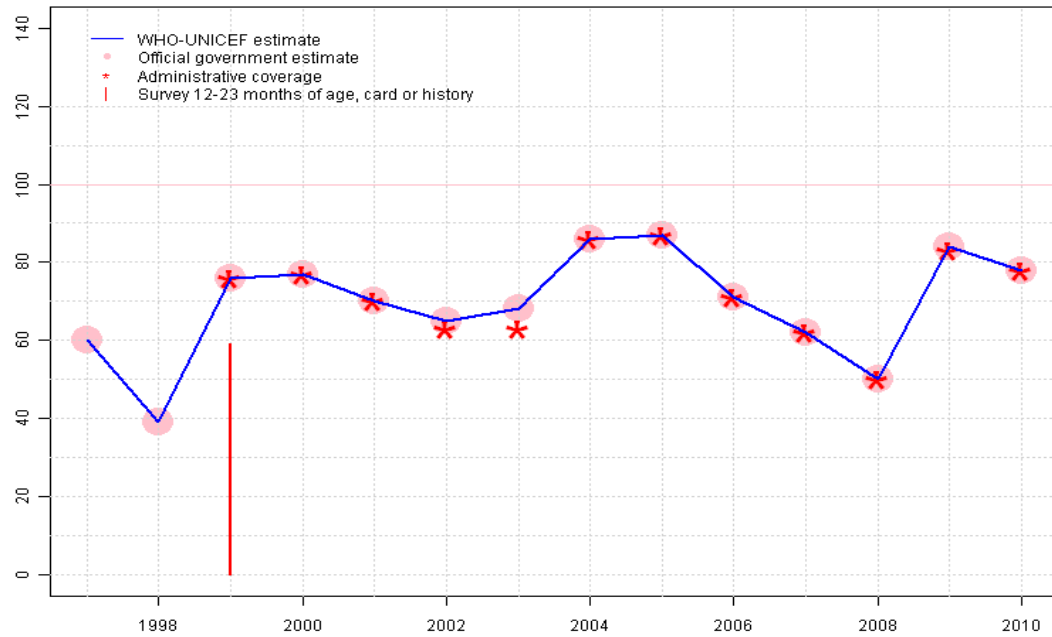
2008: Estimate based on reported data. Current estimate of 87 percent changed from previous revision value of 79 percent.

2009: Estimate based on reported data. Current estimate of 86 percent changed from previous revision value of 83 percent.

2010: Estimate based on reported data.

Venezuela - DTP3

VEN - DTP3



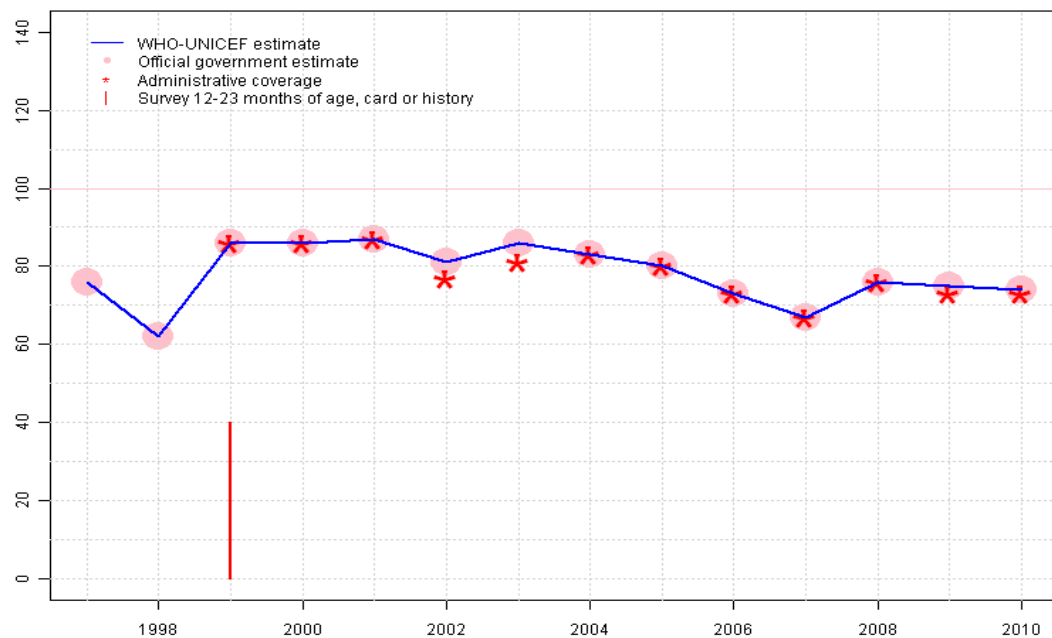
Description:

- 1997: Legacy estimate.
- 1998: Estimate based on reported data. Decline unexplained.
- 1999: Estimate based on reported data. Survey results not accepted. Sample size 0 less than 300.
- 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. Current estimate of 62 percent changed from previous revision value of 65 percent.
- 2008: Estimate based on reported data. Two months long pentavalent vaccine stock-out reported.
- 2009: Estimate based on reported data. Coverage levels recover after shortages in the preceding year. Current estimate of 84 percent changed from previous revision value of 83 percent.
- 2010: Estimate based on reported data.

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Estimate	60	39	76	77	70	65	68	86	87	71	62	50	84	78
Official	60	39	76	77	70	65	68	86	87	71	62	50	84	78
Administrative	NA	NA	76	77	70	63	63	86	87	71	62	50	83	78
Survey	NA	NA	59	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Venezuela - Pol3

VEN - Pol3



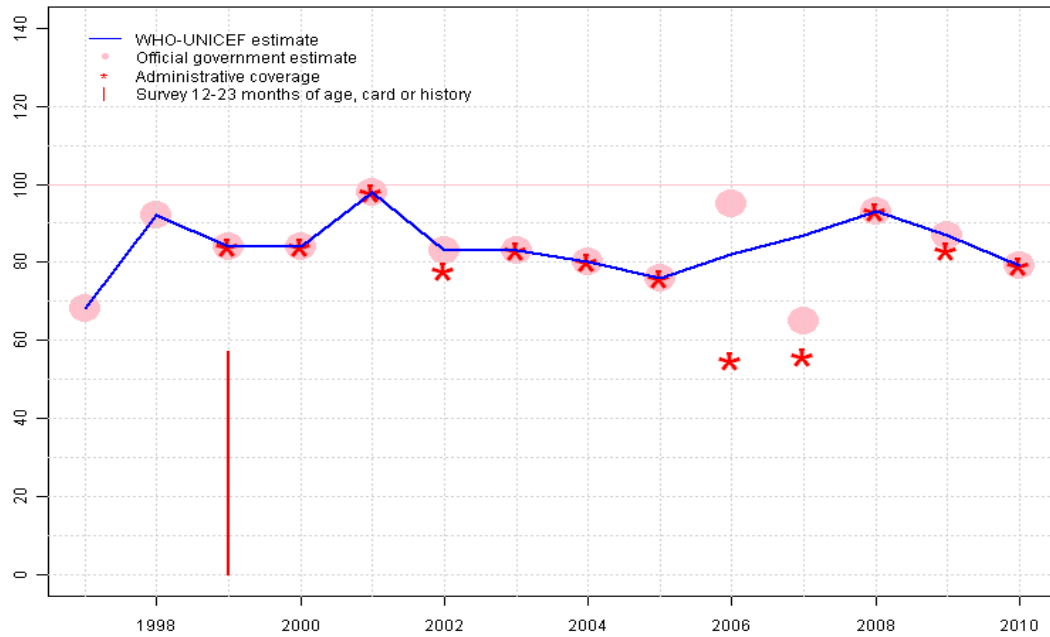
Description:

- 1997: Legacy estimate.
- 1998: Estimate based on reported data. Decline unexplained.
- 1999: Estimate based on reported data. Survey results not accepted. Sample size 0 less than 300.
- 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. Current estimate of 75 percent changed from previous revision value of 73 percent.
- 2010: Estimate based on reported data.

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Estimate	76	62	86	86	87	81	86	83	80	73	67	76	75	74
Official	76	62	86	86	87	81	86	83	80	73	67	76	75	74
Administrative	NA	NA	86	86	87	77	81	83	80	73	67	76	73	73
Survey	NA	NA	40	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Venezuela - MCV

VEN - MCV



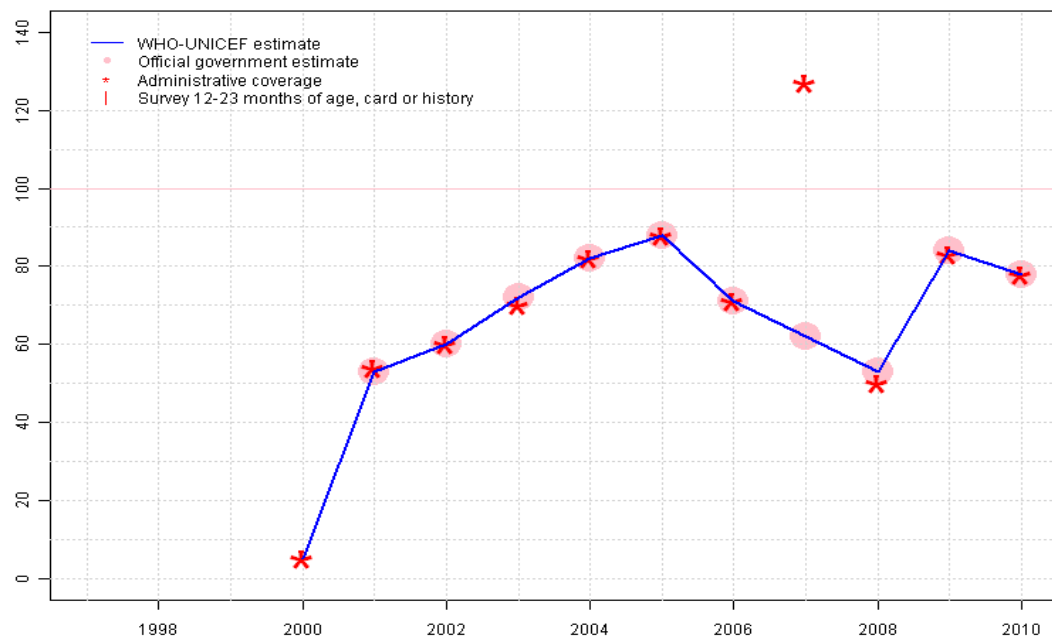
Description:

- 1997: Legacy estimate.
- 1998: Estimate based on reported data.
- 1999: Estimate based on reported data. Survey results not accepted. Sample size 0 less than 300.
- 2000: Estimate based on reported data.
- 2001: Estimate based on reported data. Increase unexplained.
- 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 interpolation between 2005 and 2008. Reported data not accepted due to an increase from 76 percent to 95 percent with a subsequent decrease to 65 percent. Current estimate of 82 percent changed from previous revision value of 55 percent.
- 2007: Estimate based on interpolation between 2005 and 2008. Reported data not accepted due to a decline from 95 percent to 65 percent with a subsequent increase to 93 percent. Current estimate of 87 percent changed from previous revision value of 56 percent.
- 2008: Estimate based on reported data.
- 2009: Estimate based on reported data. Current estimate of 87 percent changed from previous revision value of 83 percent.
- 2010: Estimate based on reported data.

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Estimate	68	92	84	84	98	83	83	80	76	82	87	93	87	79
Official	68	92	84	84	98	83	83	80	76	95	65	93	87	79
Administrative	NA	NA	84	84	98	78	83	80	76	55	56	93	83	79
Survey	NA	NA	57	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Venezuela - HepB3

VEN - HepB3



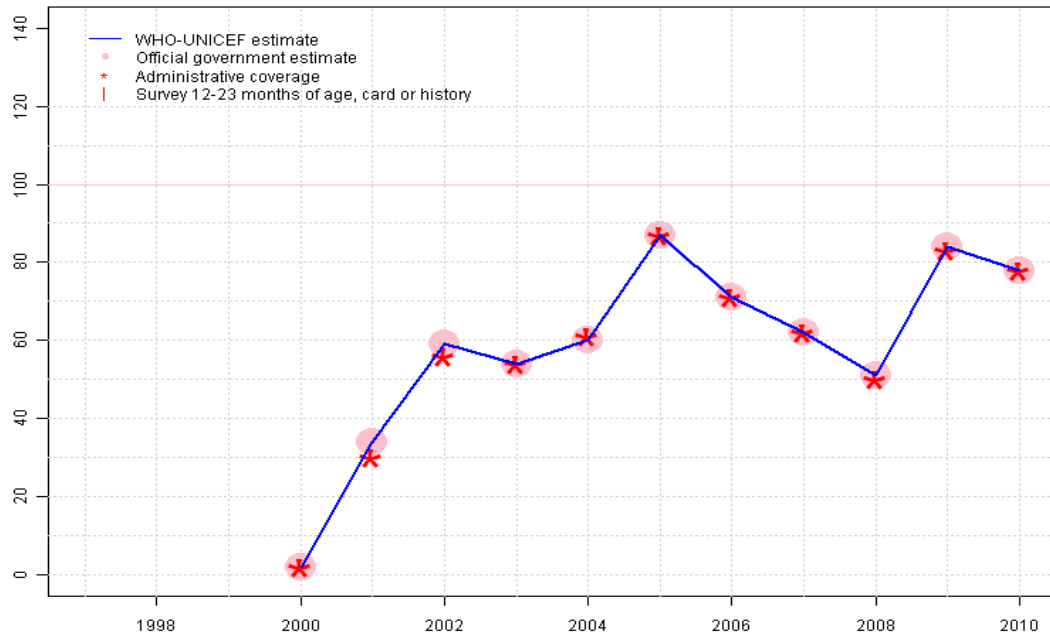
Description:

- 2000: Estimate based on reported data. HepB introduced in 2000 Vaccine presentation is DTP-HepB-Hib.
- 2001: Estimate based on reported data. Current estimate of 53 percent changed from previous revision value of 54 percent.
- 2002: Estimate based on reported data.
- 2003: Estimate based on reported data. Current estimate of 72 percent changed from previous revision value of 75 percent.
- 2004: Estimate based on reported data.
- 2005: Estimate based on reported data.
- 2006: Estimate based on reported data.
- 2007: Estimate based on reported data. Current estimate of 62 percent changed from previous revision value of 65 percent.
- 2008: Estimate based on reported data. Two months long pentavalent vaccine stock-out reported. Current estimate of 53 percent changed from previous revision value of 50 percent.
- 2009: Estimate based on reported data. Coverage levels recover after shortages in the preceding year. Current estimate of 84 percent changed from previous revision value of 83 percent.
- 2010: Estimate based on reported data.

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Estimate	NA	NA	NA	5	53	60	72	82	88	71	62	53	84	78
Official	NA	NA	NA	NA	53	60	72	82	88	71	62	53	84	78
Administrative	NA	NA	NA	5	54	60	70	82	88	71	127	50	83	78
Survey	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Venezuela - Hib3

VEN - Hib3



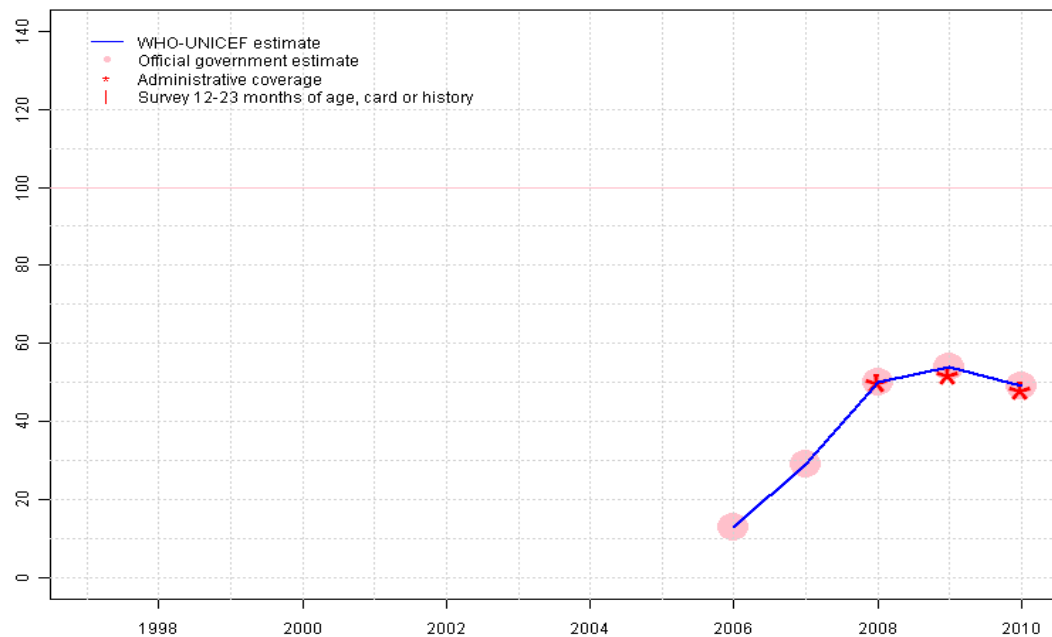
Description:

- 2000: Estimate based on reported data. Hib introduced in 2000 Vaccine presentation is DTP-HepB-Hib.
- 2001: Estimate based on reported data. Current estimate of 34 percent changed from previous revision value of 30 percent.
- 2002: Estimate based on reported data. Current estimate of 59 percent changed from previous revision value of 56 percent.
- 2003: Estimate based on reported data.
- 2004: Estimate based on reported data. Current estimate of 60 percent changed from previous revision value of 61 percent.
- 2005: Estimate based on reported data.
- 2006: Estimate based on reported data.
- 2007: Estimate based on reported data. Current estimate of 62 percent changed from previous revision value of 65 percent.
- 2008: Estimate based on reported data. Two months long pentavalent vaccine stock-out reported. Current estimate of 51 percent changed from previous revision value of 50 percent.
- 2009: Estimate based on reported data. Coverage levels recover after shortages in the preceding year. Current estimate of 84 percent changed from previous revision value of 83 percent.
- 2010: Estimate based on reported data.

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Estimate	NA	NA	NA	2	34	59	54	60	87	71	62	51	84	78
Official	NA	NA	NA	2	34	59	54	60	87	71	62	51	84	78
Administrative	NA	NA	NA	2	30	56	54	61	87	71	62	50	83	78
Survey	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Venezuela - RotaC

VEN - RotaC

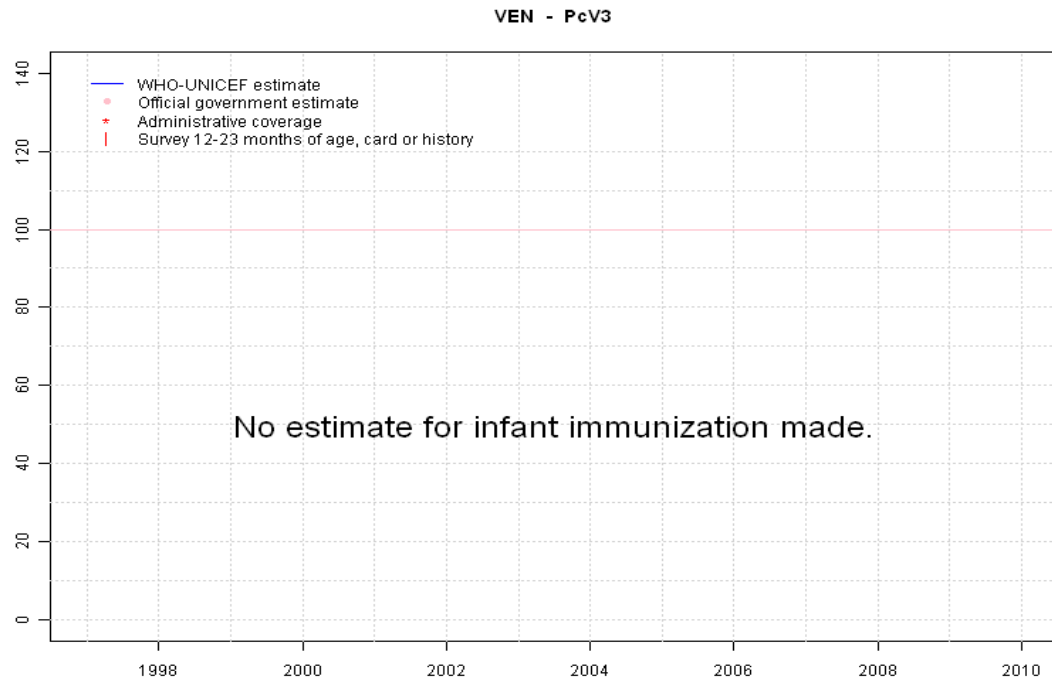


Description:

- 2006: Estimate based on reported data. Rota introduced in 2006.
- 2007: Estimate based on reported data.
- 2008: Estimate based on reported data.
- 2009: Estimate based on reported data. Current estimate of 54 percent changed from previous revision value of 52 percent.
- 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	13	29	50	54	49
Official	NA	NA	NA	NA	NA	NA	NA	NA	NA	13	29	50	54	49
Administrative	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	50	52	48
Survey	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

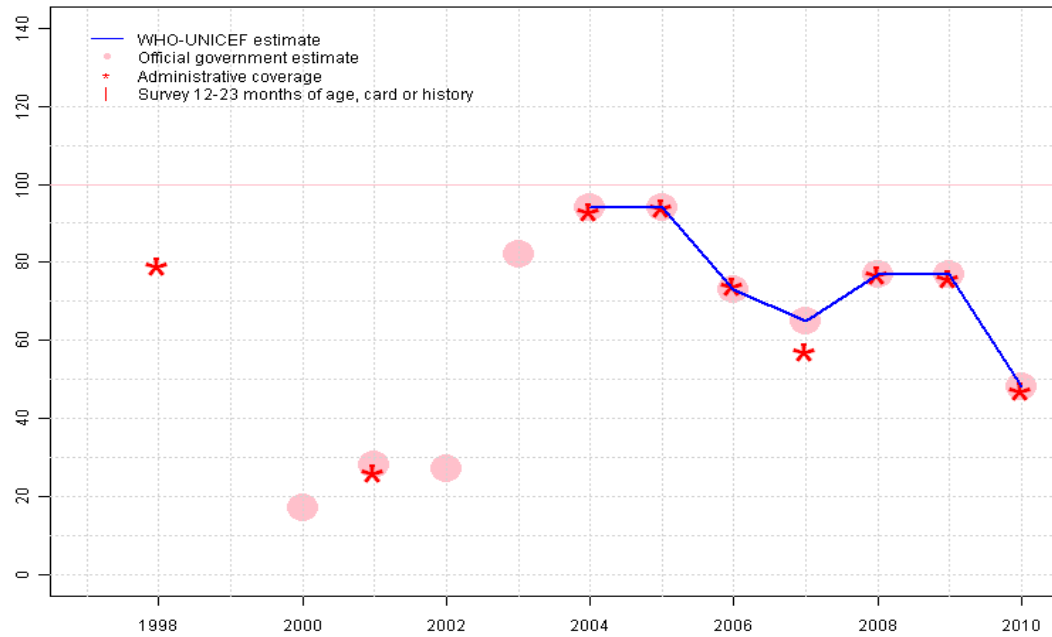
Venezuela - PcV3



	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	NA	NA
Official	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Administrative	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Survey	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Venezuela - YFV

VEN - YFV



Description:

- 2004: Estimate based on reported data. YFV introduced in 2004Current estimate of 94 percent changed from previous revision value of 93 percent.
- 2005: Estimate based on reported data.
- 2006: Estimate based on reported data. Current estimate of 73 percent changed from previous revision value of 74 percent.
- 2007: Estimate based on reported data.
- 2008: Estimate based on reported data.
- 2009: Estimate based on reported data. Current estimate of 77 percent changed from previous revision value of 76 percent.
- 2010: Estimate based on reported data. 12 months long YF vaccine stock-out reported.

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Estimate	NA	NA	NA	NA	NA	NA	NA	94	94	73	65	77	77	48
Official	NA	NA	NA	17	28	27	82	94	94	73	65	77	77	48
Administrative	NA	79	NA	NA	26	NA	NA	93	94	74	57	77	76	47
Survey	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Venezuela - survey details

1999 Encuesta MICS-Venezuela 2000

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	Card or History	90	12-23 m	0	0
DTP1	Card or History	88	12-23 m	0	0

DTP3	Card or History	59	12-23 m	0	0
MCV	Card or History	57	12-23 m	0	0
Pol1	Card or History	81	12-23 m	0	0
Pol3	Card or History	40	12-23 m	0	0

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

Venezuela (Bolivarian Republic of)

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	
1998	
1999	
2000	
2001	24
2002	26
2003	48
2004	48
2005	51
2006	49
2007	51
2008	52
2009	50
2010	50

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.