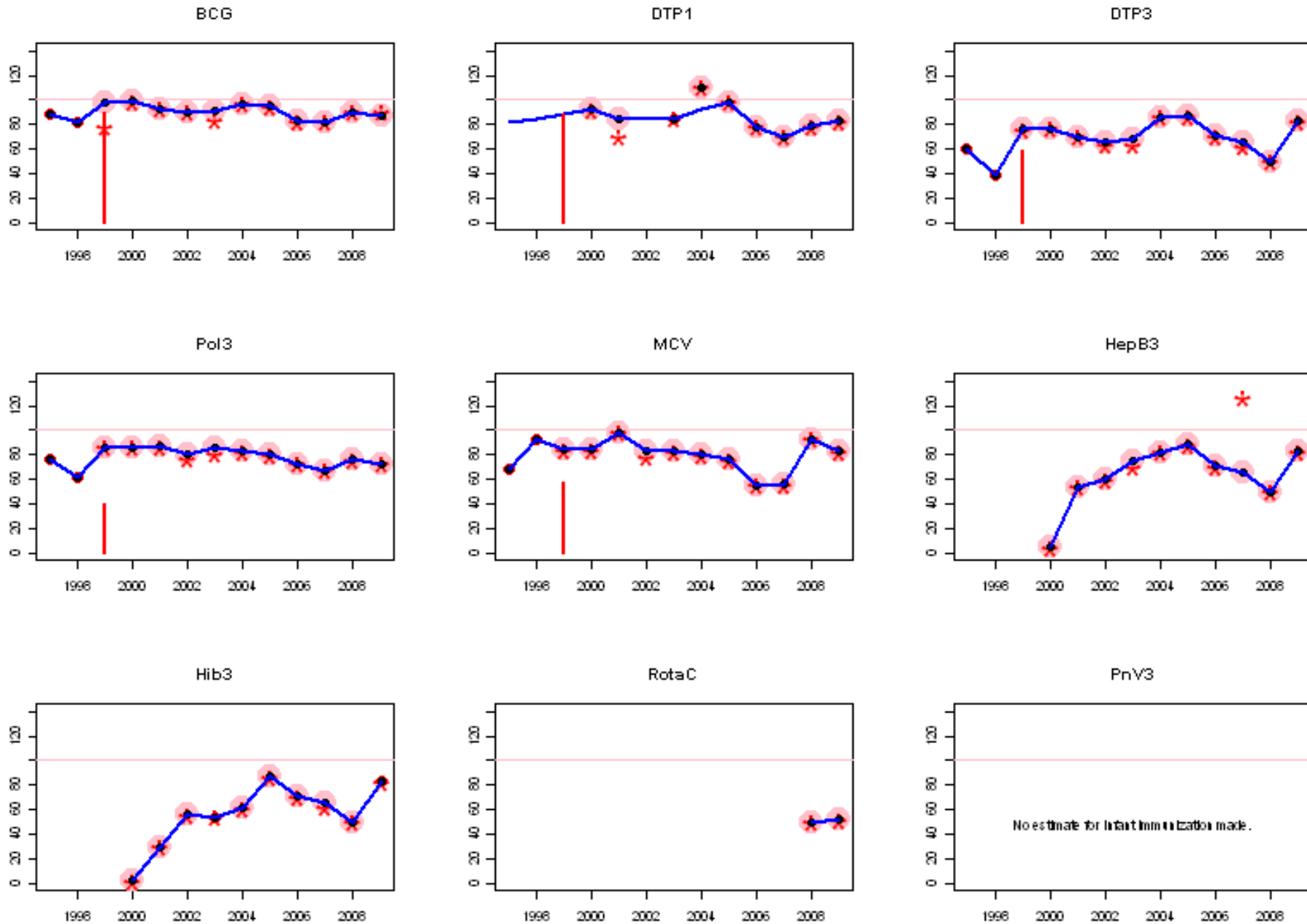
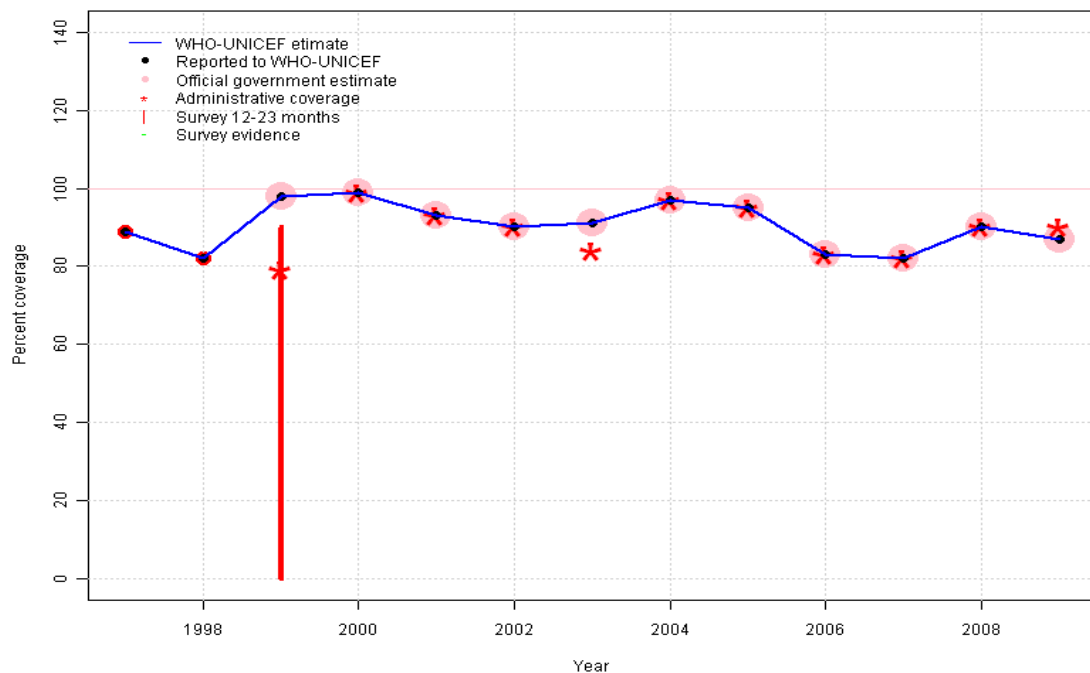


Venezuela: WHO and UNICEF estimates of immunization coverage, 1997 - 2009



Venezuela - BCG

VEN - BCG



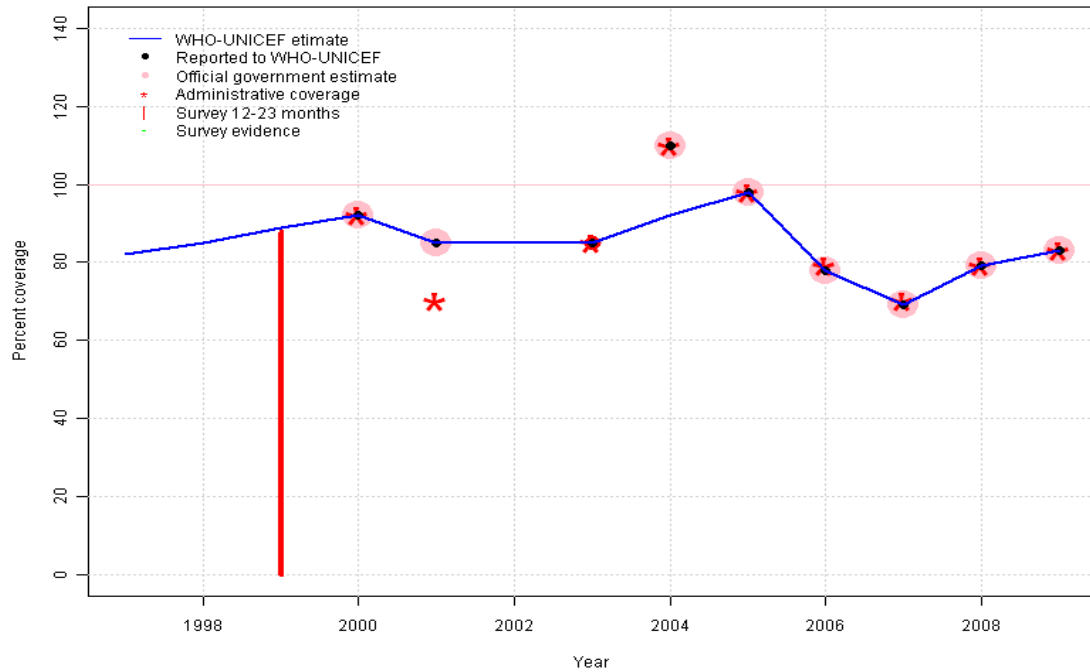
Description:

- 1997: Legacy estimate.
- 1998: Estimate based on reported data.
- 1999: Estimate based on reported data. Survey results of 90 percent with sample size 0 ignored; sample size 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.

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Estimate	89	82	98	99	93	90	91	97	95	83	82	90	87
Reported	89	82	98	99	93	90	91	97	95	83	82	90	87
Official	NA	NA	98	99	93	90	91	97	95	83	82	90	87
Administrative	NA	NA	79	99	93	90	84	97	95	83	82	90	90
Survey	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Venezuela - DTP1

VEN - DTP1



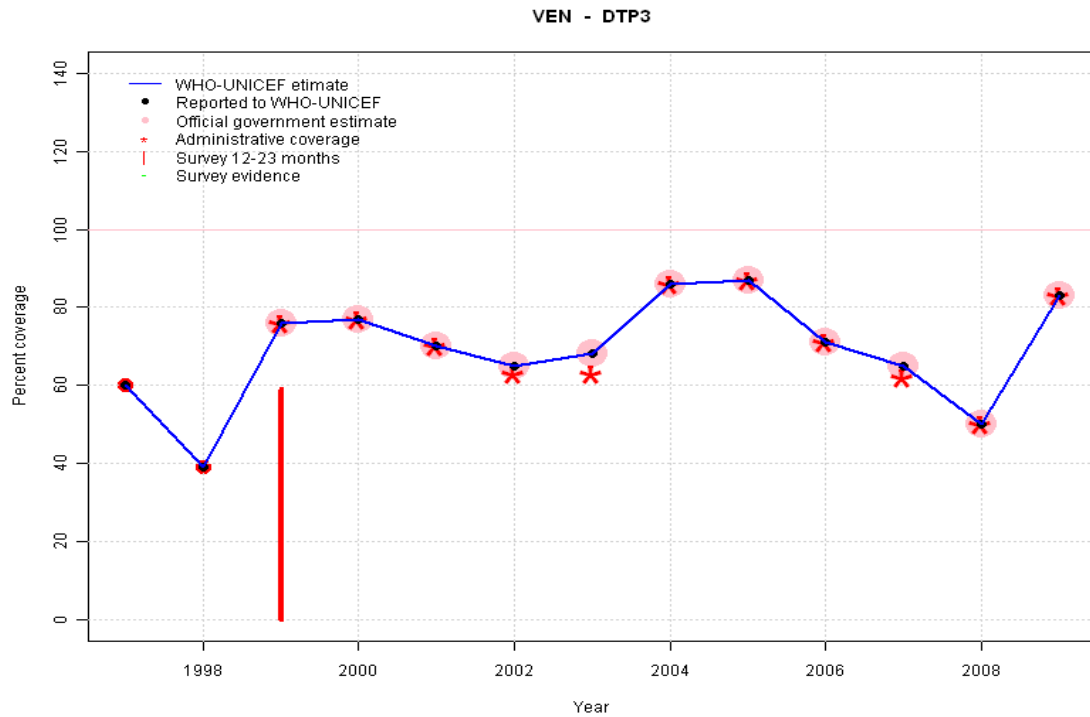
Description:

- 1997: Legacy estimate.
- 1998: Estimate interpolated between 1997 and 2000 estimates.
- 1999: Estimate interpolated between 1997 and 2000 estimates. Survey results of 88 percent with sample size 0 ignored; sample size less than 300.
- 2000: Estimate is based on the reported data.
- 2001: Estimate based on reported data.
- 2002: Estimate based on trend in reported data. Missing or ignored reported value estimated by interpolation between reported values of 85 percent in 2001 and 85 percent in 2003.
- 2003: Estimate based on reported data.
- 2004: Estimate based on trend in reported data. Missing or ignored reported value estimated by interpolation between reported values of 85 percent in 2003 and 98 percent in 2005. 2004 reported data (110 percent) ignored; greater than 100 percent. 2004 reported data (110 percent) inconsistent with data from other years.
- 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.

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Estimate	82	85	89	92	85	85	85	92	98	78	69	79	83
Reported	NA	NA	NA	92	85	NA	85	110	98	78	69	79	83
Official	NA	NA	NA	92	85	NA	NA	110	98	78	69	79	83
Administrative	NA	NA	NA	92	70	NA	85	110	98	79	70	79	83
Survey	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Venezuela - DTP3

Description:

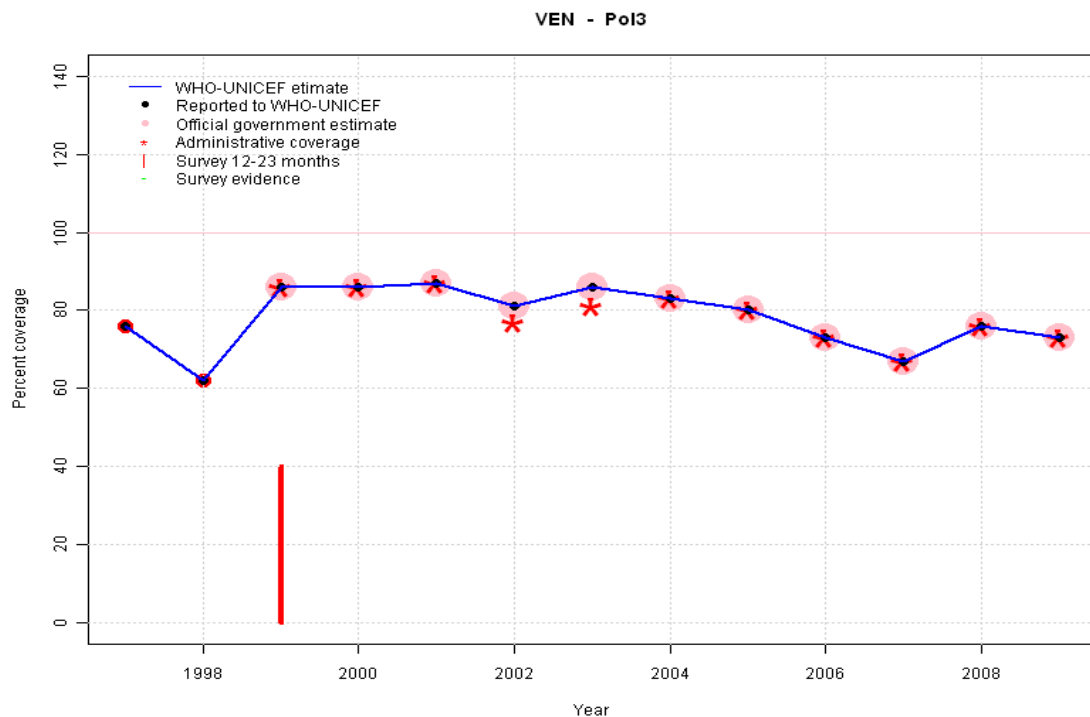


- 1997: Legacy estimate.
- 1998: Estimate based on reported data. Decline unexplained.
- 1999: Estimate based on reported data. Survey results of 59 percent with sample size 0 ignored; sample size less than 300.
- 2000: Estimate based on reported data.
- 2001: Estimate based on reported data.
- 2002: 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. Two months long pentavalent vaccine stock-out reported.
- 2009: Estimate based on reported data. Coverage levels recover after shortages in the preceding year.

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

Venezuela - Pol3

Description:

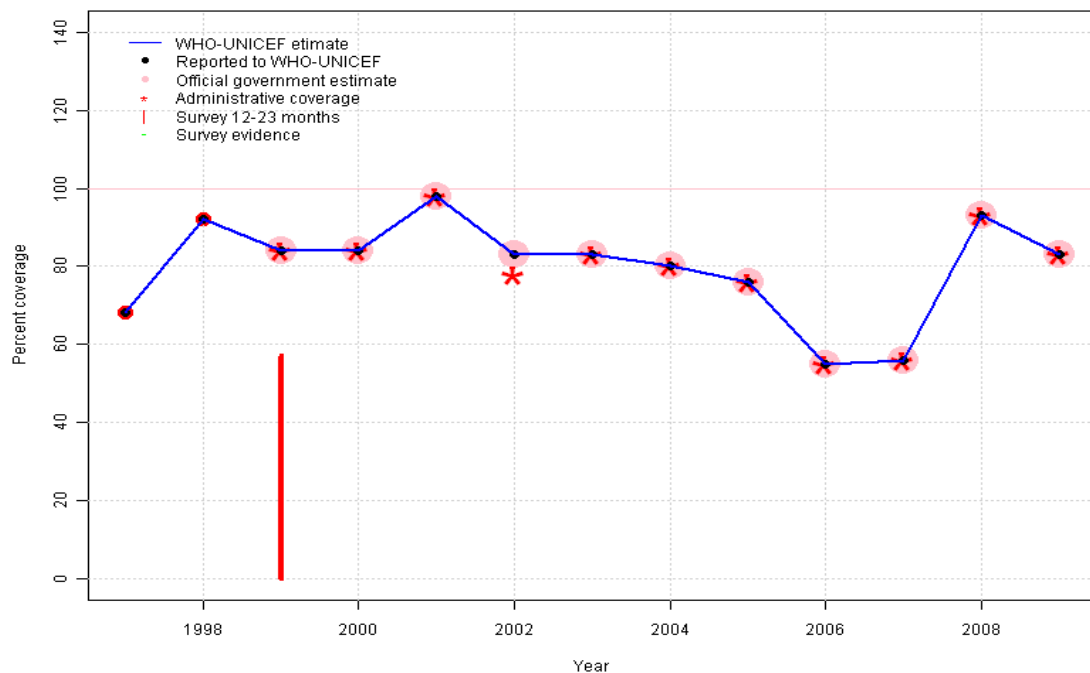


1997: Legacy estimate.
 1998: Estimate based on reported data. Decline unexplained.
 1999: Estimate based on reported data. Survey results of 40 percent with sample size 0 ignored; sample size less than 300.
 2000: Estimate based on reported data.
 2001: Estimate based on reported data.
 2002: Estimate 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.

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

Venezuela - MCV

VEN - MCV

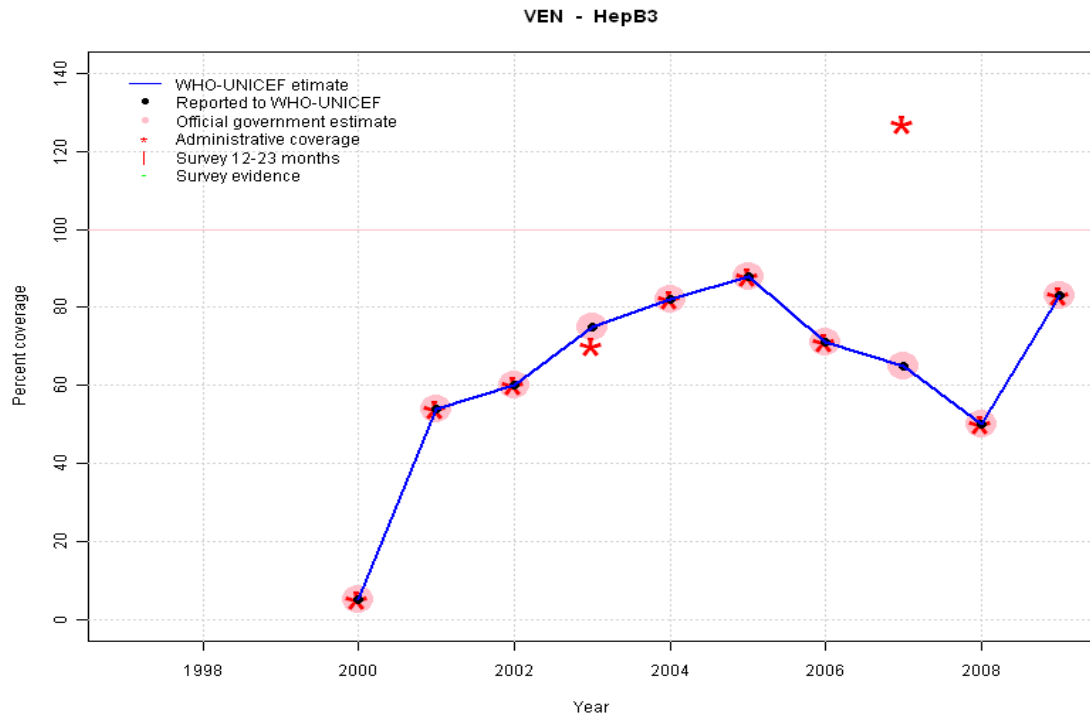


Description:

- 1997: Legacy estimate.
- 1998: Estimate based on reported data.
- 1999: Estimate based on reported data. Survey results of 57 percent with sample size 0 ignored; sample size 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 reported data.
- 2007: Estimate based on reported data.
- 2008: Estimate based on reported data.
- 2009: Estimate based on reported data.

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Estimate	68	92	84	84	98	83	83	80	76	55	56	93	83
Reported	68	92	84	84	98	83	83	80	76	55	56	93	83
Official	NA	NA	84	84	98	83	83	80	76	55	56	93	83
Administrative	NA	NA	84	84	98	78	83	80	76	55	56	93	83
Survey	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Venezuela - HepB3



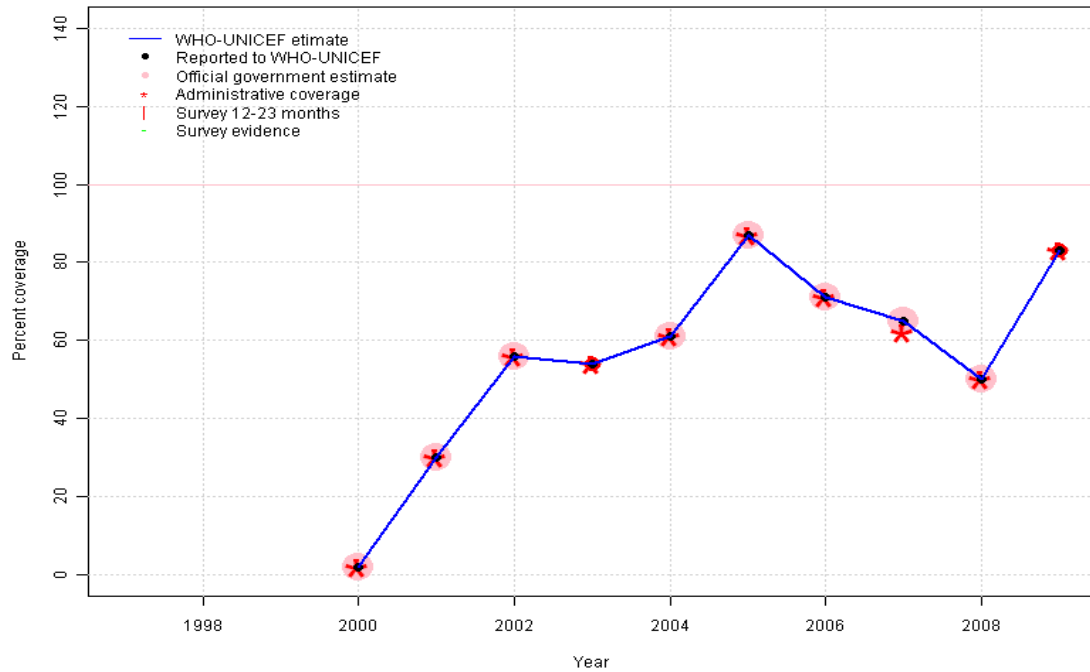
Description:

- 2000: Estimate based on reported data. HepB introduced in 2000 Vaccine presentation is DTP-HepB-Hib.
- 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. Two months long pentavalent vaccine stock-out reported.
- 2009: Estimate based on reported data. Coverage levels recover after shortages in the preceding year.

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Estimate	NA	NA	NA	5	54	60	75	82	88	71	65	50	83
Reported	NA	NA	NA	5	54	60	75	82	88	71	65	50	83
Official	NA	NA	NA	5	54	60	75	82	88	71	65	50	83
Administrative	NA	NA	NA	5	54	60	70	82	88	71	127	50	83
Survey	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Venezuela - Hib3

VEN - Hib3



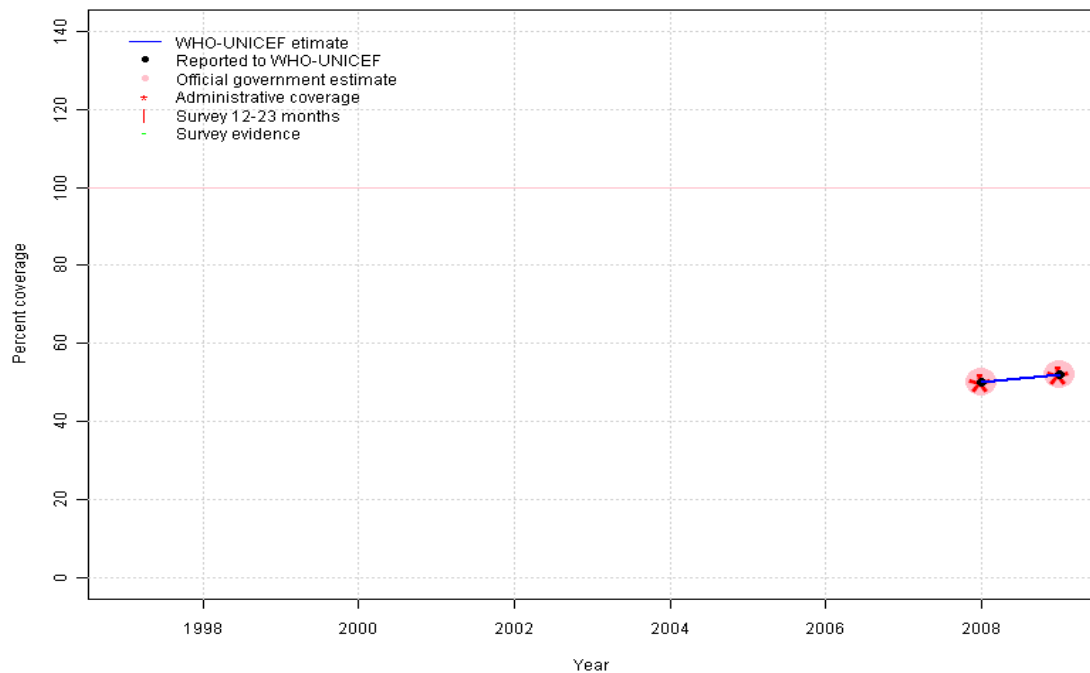
Description:

- 2000: Estimate based on reported data. Hib introduced in 2000 Vaccine presentation is DTP-HepB-Hib.
- 2001: Estimate based on reported data.
- 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. Two months long pentavalent vaccine stock-out reported.
- 2009: Estimate based on reported data. Coverage levels recover after shortages in the preceding year.

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Estimate	NA	NA	NA	2	30	56	54	61	87	71	65	50	83
Reported	NA	NA	NA	2	30	56	54	61	87	71	65	50	83
Official	NA	NA	NA	2	30	56	NA	61	87	71	65	50	NA
Administrative	NA	NA	NA	2	30	56	54	61	87	71	62	50	83
Survey	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Venezuela - RotaC

VEN - RotaC



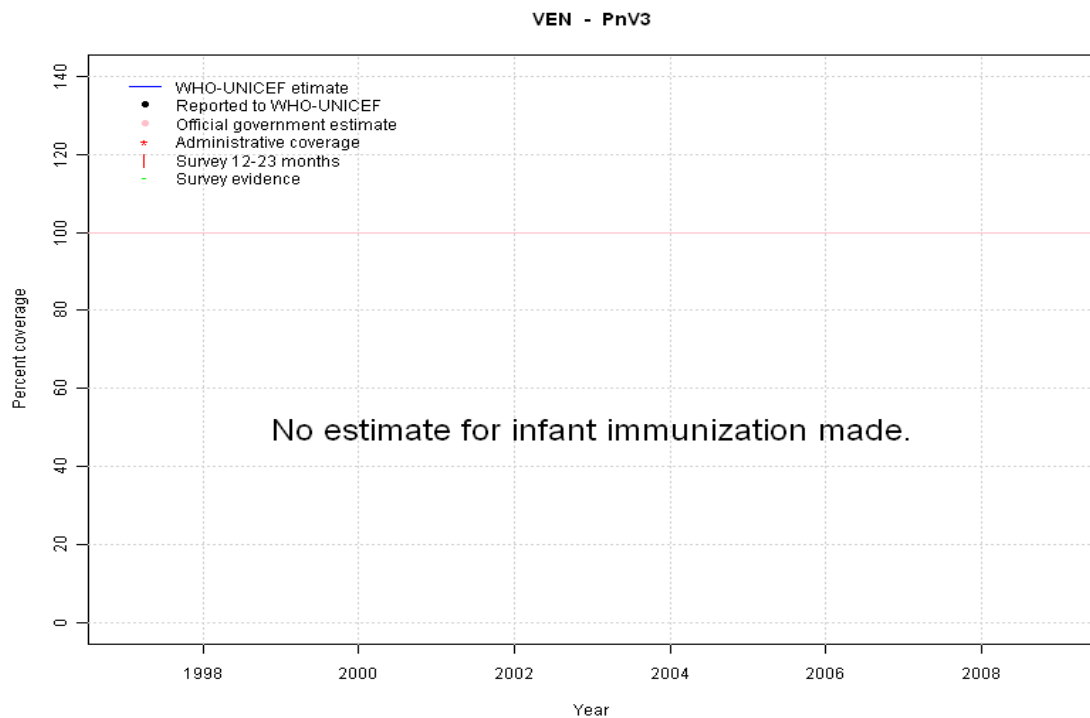
Description:

2008: Estimate based on reported data. Rota introduced in 2006 reporting started in 2008

2009: Estimate based on reported data. Rota introduced in 2006 reporting started in 2009

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Estimate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	50	52
Reported	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	50	52
Official	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	50	52
Administrative	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	50	52
Survey	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

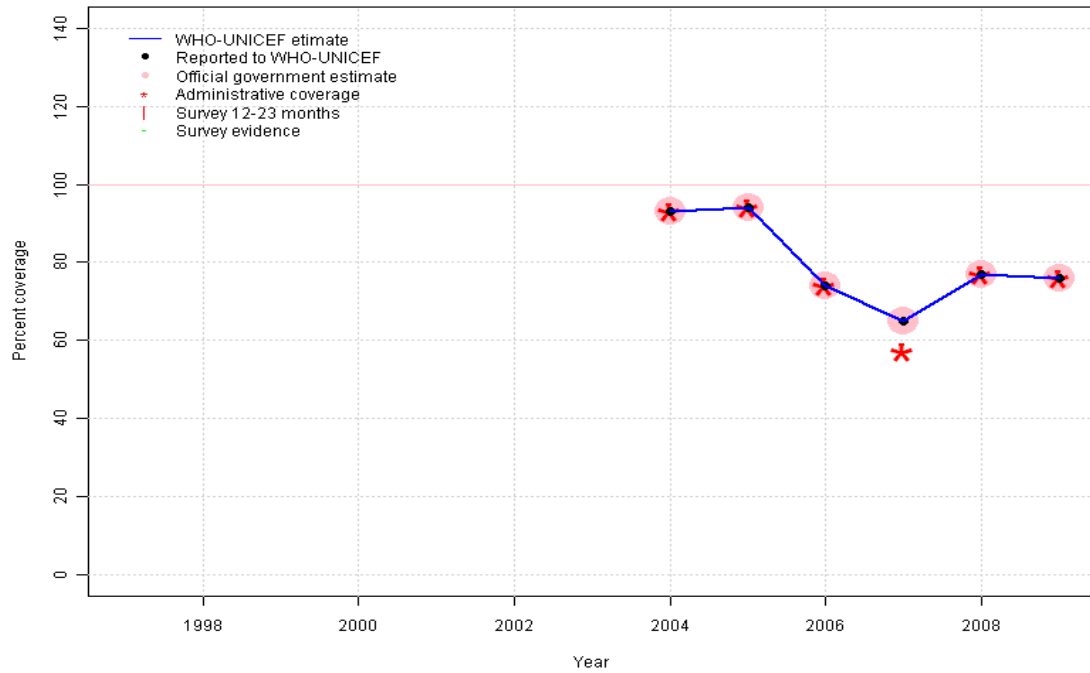
Venezuela - PnV3



	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Estimate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Reported	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
Administrative	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

Venezuela - YFV

VEN - YFV



Description:

2004: Estimate based on reported data. YFV introduced in 2004
 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.

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009
Estimate	NA	NA	NA	NA	NA	NA	NA	93	94	74	65	77	76
Reported	NA	NA	NA	NA	NA	NA	NA	93	94	74	65	77	76
Official	NA	NA	NA	NA	NA	NA	NA	93	94	74	65	77	76
Administrative	NA	NA	NA	NA	NA	NA	NA	93	94	74	57	77	76
Survey	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

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.