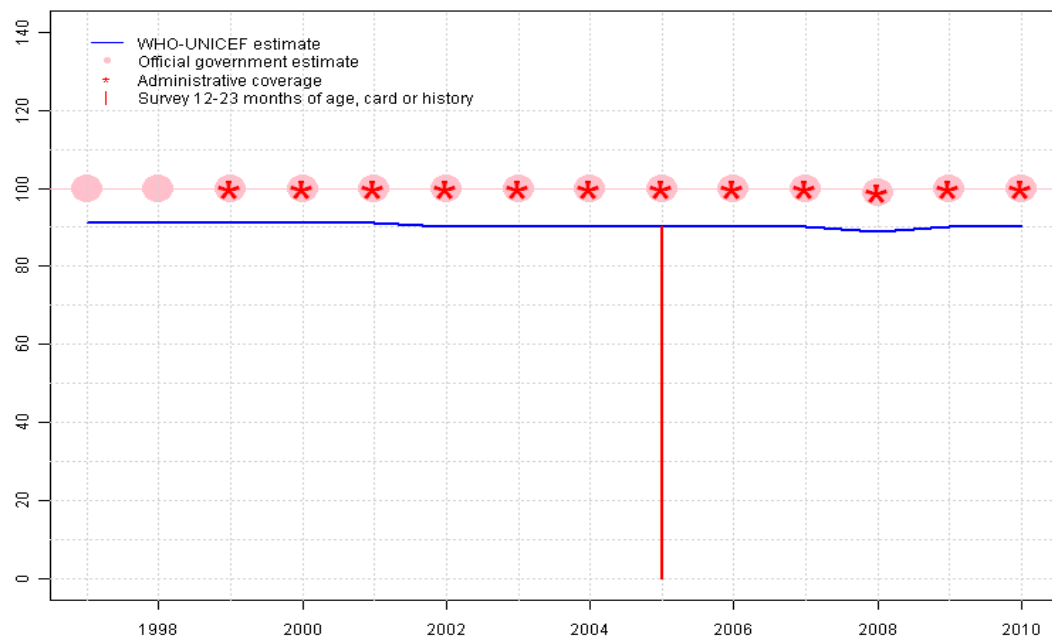


# Syrian Arab Republic - BCG

SYR - BCG



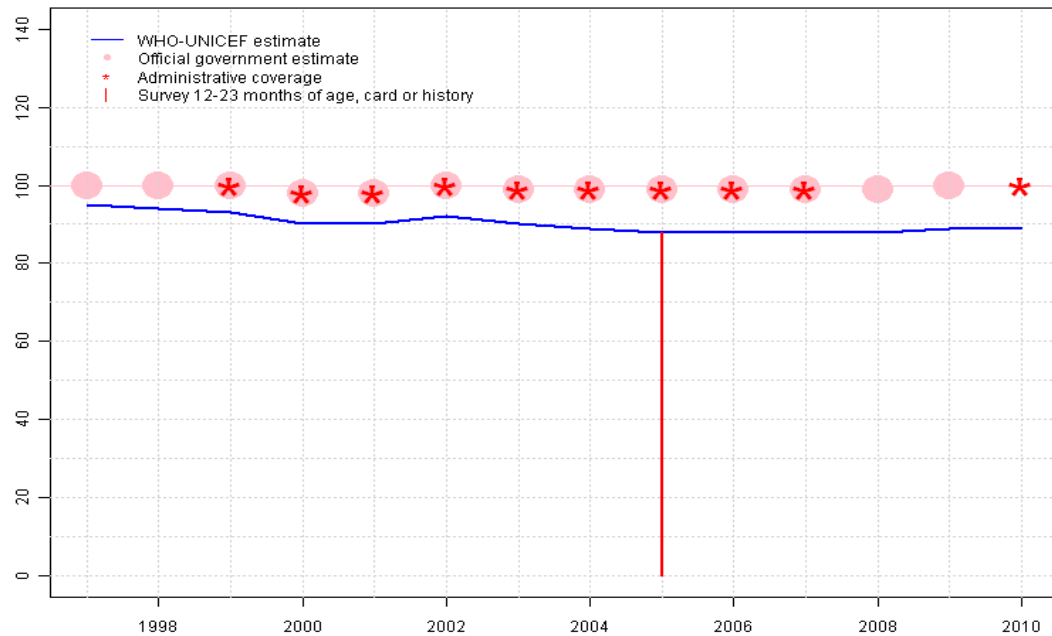
## Description:

- 1997: Legacy estimate.
- 1998: Reported data calibrated to 1997 and 2005 levels.
- 1999: Reported data calibrated to 1997 and 2005 levels.
- 2000: Reported data calibrated to 1997 and 2005 levels.
- 2001: Reported data calibrated to 1997 and 2005 levels.
- 2002: Reported data calibrated to 1997 and 2005 levels.
- 2003: Reported data calibrated to 1997 and 2005 levels.
- 2004: Reported data calibrated to 1997 and 2005 levels.
- 2005: Estimate is based on survey results for all antigens. Estimates for other vaccines referenced to survey data point. Estimate for BCG based on survey results.
- 2006: Reported data 100 percent calibrated to 2005 levels.
- 2007: Reported data 100 percent calibrated to 2005 levels.
- 2008: Reported data 99 percent calibrated to 2005 levels. Current estimate of 89 percent changed from previous revision value of 90 percent.
- 2009: Reported data 100 percent calibrated to 2005 levels.
- 2010: Reported data 100 percent calibrated to 2005 levels.

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Estimate	91	91	91	91	91	90	90	90	90	90	90	89	90	90
Official	100	100	100	100	100	100	100	100	100	100	100	99	100	100
Administrative	NA	NA	100	100	100	100	100	100	100	100	100	99	100	100
Survey	NA	NA	NA	NA	NA	NA	NA	NA	90	NA	NA	NA	NA	NA

# Syrian Arab Republic - DTP1

SYR - DTP1



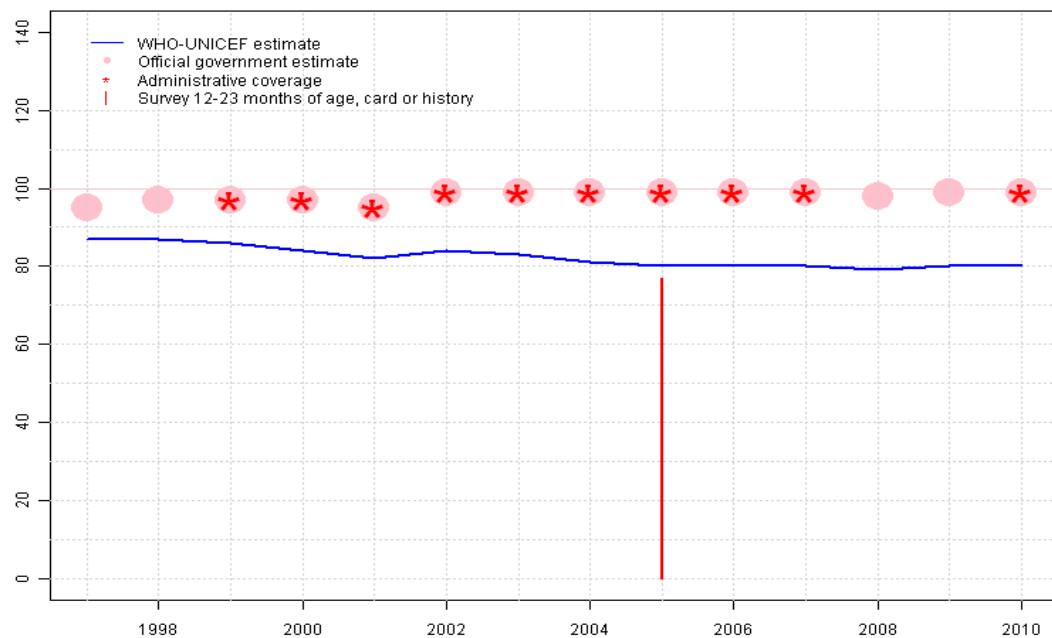
## Description:

- 1997: Legacy estimate.
- 1998: Reported data calibrated to 1997 and 2005 levels.
- 1999: Reported data calibrated to 1997 and 2005 levels.
- 2000: Reported data calibrated to 1997 and 2005 levels. Current estimate of 90 percent changed from previous revision value of 92 percent.
- 2001: Reported data calibrated to 1997 and 2005 levels. Current estimate of 90 percent changed from previous revision value of 92 percent.
- 2002: Reported data calibrated to 1997 and 2005 levels. Current estimate of 92 percent changed from previous revision value of 91 percent.
- 2003: Reported data calibrated to 1997 and 2005 levels.
- 2004: Reported data calibrated to 1997 and 2005 levels.
- 2005: Estimate based on survey results. 88 percent survey results does not support reported data of 99 percent.
- 2006: Reported data 99 percent calibrated to 2005 levels.
- 2007: Reported data 99 percent calibrated to 2005 levels.
- 2008: Reported data 99 percent calibrated to 2005 levels.
- 2009: Reported data 100 percent calibrated to 2005 levels. Current estimate of 89 percent changed from previous revision value of 88 percent.
- 2010: Reported data 100 percent calibrated to 2005 levels.

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Estimate	95	94	93	90	90	92	90	89	88	88	88	88	89	89
Official	100	100	100	98	98	100	99	99	99	99	99	99	100	NA
Administrative	NA	NA	100	98	98	100	99	99	99	99	99	NA	NA	100
Survey	NA	NA	NA	NA	NA	NA	NA	NA	88	NA	NA	NA	NA	NA

# Syrian Arab Republic - DTP3

SYR - DTP3



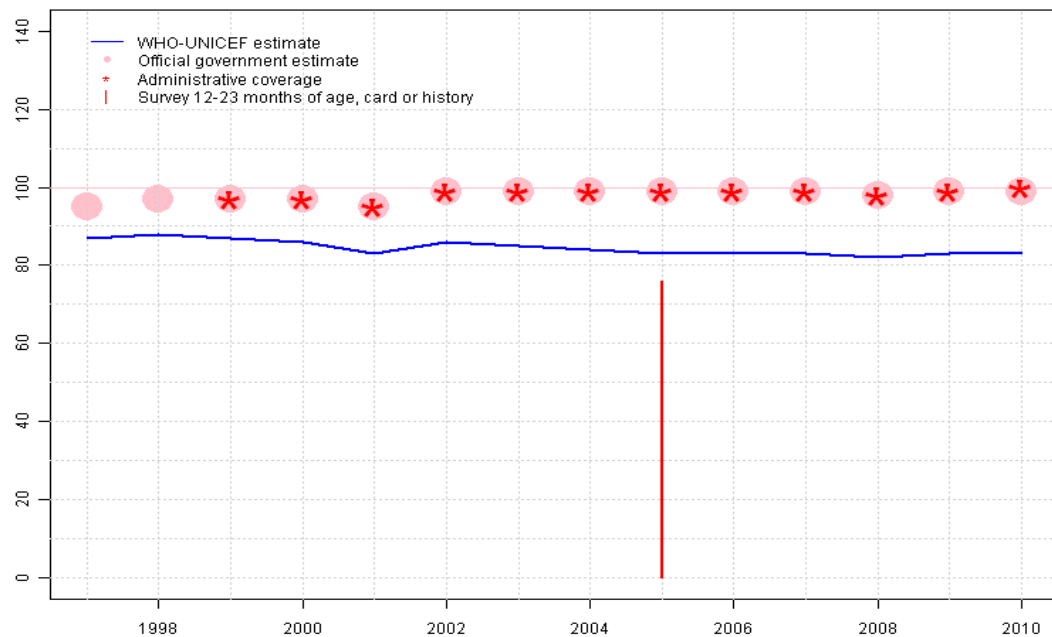
## Description:

- 1997: Legacy estimate.
- 1998: Reported data calibrated to 1997 and 2005 levels. Current estimate of 87 percent changed from previous revision value of 86 percent.
- 1999: Reported data calibrated to 1997 and 2005 levels. Current estimate of 86 percent changed from previous revision value of 85 percent.
- 2000: Reported data calibrated to 1997 and 2005 levels.
- 2001: Reported data calibrated to 1997 and 2005 levels. Current estimate of 82 percent changed from previous revision value of 84 percent.
- 2002: Reported data calibrated to 1997 and 2005 levels. Current estimate of 84 percent changed from previous revision value of 83 percent.
- 2003: Reported data calibrated to 1997 and 2005 levels. Current estimate of 83 percent changed from previous revision value of 82 percent.
- 2004: Reported data calibrated to 1997 and 2005 levels.
- 2005: Estimate based on survey results. 80 percent survey results does not support reported data of 99 percent. Survey results of 77 percent modified for recall bias to 80 percent based on 1st dose card or history coverage of 88 percent, 1st dose card only coverage of 57 percent and 3d dose card only coverage of 52 percent.
- 2006: Reported data 99 percent calibrated to 2005 levels.
- 2007: Reported data 99 percent calibrated to 2005 levels.
- 2008: Reported data 98 percent calibrated to 2005 levels. Current estimate of 79 percent changed from previous revision value of 80 percent.
- 2009: Reported data 99 percent calibrated to 2005 levels.
- 2010: Reported data 99 percent calibrated to 2005 levels.

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Estimate	87	87	86	84	82	84	83	81	80	80	80	79	80	80
Official	95	97	97	97	95	99	99	99	99	99	99	98	99	99
Administrative	NA	NA	97	97	95	99	99	99	99	99	99	NA	NA	99
Survey	NA	NA	NA	NA	NA	NA	NA	NA	77	NA	NA	NA	NA	NA

# Syrian Arab Republic - Pol3

SYR - Pol3



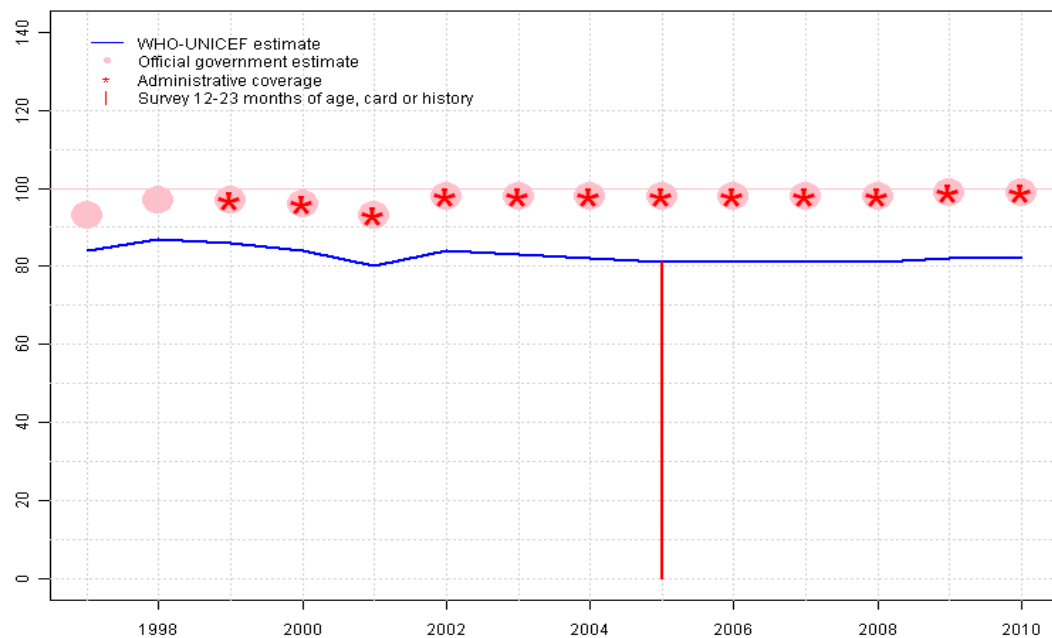
## Description:

- 1997: Legacy estimate.
- 1998: Reported data calibrated to 1997 and 2005 levels. Current estimate of 88 percent changed from previous revision value of 87 percent.
- 1999: Reported data calibrated to 1997 and 2005 levels. Current estimate of 87 percent changed from previous revision value of 86 percent.
- 2000: Reported data calibrated to 1997 and 2005 levels.
- 2001: Reported data calibrated to 1997 and 2005 levels. Current estimate of 83 percent changed from previous revision value of 85 percent.
- 2002: Reported data calibrated to 1997 and 2005 levels. Current estimate of 86 percent changed from previous revision value of 85 percent.
- 2003: Reported data calibrated to 1997 and 2005 levels. Current estimate of 85 percent changed from previous revision value of 84 percent.
- 2004: Reported data calibrated to 1997 and 2005 levels.
- 2005: Estimate based on survey results. 83 percent survey results does not support reported data of 99 percent. Survey results of 76 percent modified for recall bias to 83 percent based on 1st dose card or history coverage of 89 percent, 1st dose card only coverage of 56 percent and 3d dose card only coverage of 52 percent.
- 2006: Reported data 99 percent calibrated to 2005 levels.
- 2007: Reported data 99 percent calibrated to 2005 levels.
- 2008: Reported data 98 percent calibrated to 2005 levels. Current estimate of 82 percent changed from previous revision value of 83 percent.
- 2009: Reported data 99 percent calibrated to 2005 levels.
- 2010: Reported data 99 percent calibrated to 2005 levels.

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Estimate	87	88	87	86	83	86	85	84	83	83	83	82	83	83
Official	95	97	97	97	95	99	99	99	99	99	99	98	99	99
Administrative	NA	NA	97	97	95	99	99	99	99	99	99	98	99	100
Survey	NA	NA	NA	NA	NA	NA	NA	NA	76	NA	NA	NA	NA	NA

# Syrian Arab Republic - MCV

SYR - MCV



## Description:

1997: Legacy estimate.

1998: Reported data calibrated to 1997 and 2005 levels. Current estimate of 87 percent changed from previous revision value of 84 percent.

1999: Reported data calibrated to 1997 and 2005 levels. Current estimate of 86 percent changed from previous revision value of 83 percent.

2000: Reported data calibrated to 1997 and 2005 levels. Current estimate of 84 percent changed from previous revision value of 83 percent.

2001: Reported data calibrated to 1997 and 2005 levels. Current estimate of 80 percent changed from previous revision value of 83 percent.

2002: Reported data calibrated to 1997 and 2005 levels. Current estimate of 84 percent changed from previous revision value of 82 percent.

2003: Reported data calibrated to 1997 and 2005 levels. Current estimate of 83 percent changed from previous revision value of 82 percent.

2004: Reported data calibrated to 1997 and 2005 levels. Current estimate of 82 percent changed from previous revision value of 81 percent.

2005: Estimate based on survey results. 81 percent survey results does not support reported data of 98 percent.

2006: Reported data 98 percent calibrated to 2005 levels.

2007: Reported data 98 percent calibrated to 2005 levels.

2008: Reported data 98 percent calibrated to 2005 levels.

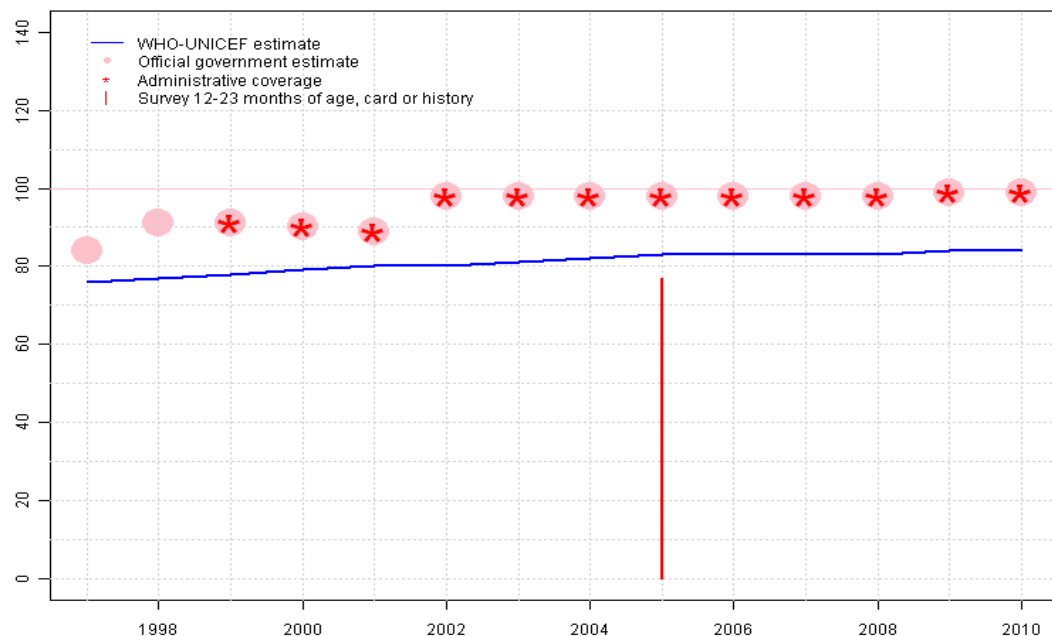
2009: Reported data 99 percent calibrated to 2005 levels. Current estimate of 82 percent changed from previous revision value of 81 percent.

2010: Reported data 99 percent calibrated to 2005 levels.

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Estimate	84	87	86	84	80	84	83	82	81	81	81	81	82	82
Official	93	97	97	96	93	98	98	98	98	98	98	98	99	99
Administrative	NA	NA	97	96	93	98	98	98	98	98	98	98	99	99
Survey	NA	NA	NA	NA	NA	NA	NA	NA	81	NA	NA	NA	NA	NA

# Syrian Arab Republic - HepB3

SYR - HepB3



	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Estimate	76	77	78	79	80	80	81	82	83	83	83	83	84	84
Official	84	91	91	90	89	98	98	98	98	98	98	98	99	99
Administrative	NA	NA	91	90	89	98	98	98	98	98	98	98	99	99
Survey	NA	NA	NA	NA	NA	NA	NA	NA	77	NA	NA	NA	NA	NA

## Description:

1997: Legacy estimate.

1998: Estimate based on interpolation between 1997 and 2005. Vaccine to vaccine consistencyCurrent estimate of 77 percent changed from previous revision value of 76 percent.

1999: Estimate based on interpolation between 1997 and 2005. Vaccine to vaccine consistencyCurrent estimate of 78 percent changed from previous revision value of 76 percent.

2000: Estimate based on interpolation between 1997 and 2005. Vaccine to vaccine consistencyCurrent estimate of 79 percent changed from previous revision value of 76 percent.

2001: Estimate based on interpolation between 1997 and 2005. Vaccine to vaccine consistencyCurrent estimate of 80 percent changed from previous revision value of 77 percent.

2002: Estimate based on interpolation between 1997 and 2005. Vaccine to vaccine consistencyCurrent estimate of 80 percent changed from previous revision value of 77 percent.

2003: Estimate based on interpolation between 1997 and 2005. Vaccine to vaccine consistencyCurrent estimate of 81 percent changed from previous revision value of 77 percent.

2004: Estimate based on interpolation between 1997 and 2005. Vaccine to vaccine consistencyCurrent estimate of 82 percent changed from previous revision value of 77 percent.

2005: Estimate based on survey results. 83 percent survey results does not support reported data of 98 percent. Survey results of 77 percent modified for recall bias to 83 percent based on 1st dose card or history coverage of 89 percent, 1st dose card only coverage of 57 percent and 3d dose card only coverage of 53 percent. Current estimate of 83 percent changed from previous revision value of 77 percent.

2006: Reported data 98 percent calibrated to 2005 levels. Current estimate of 83 percent changed from previous revision value of 77 percent.

2007: Reported data 98 percent calibrated to 2005 levels. Current estimate of 83 percent changed from previous revision value of 77 percent.

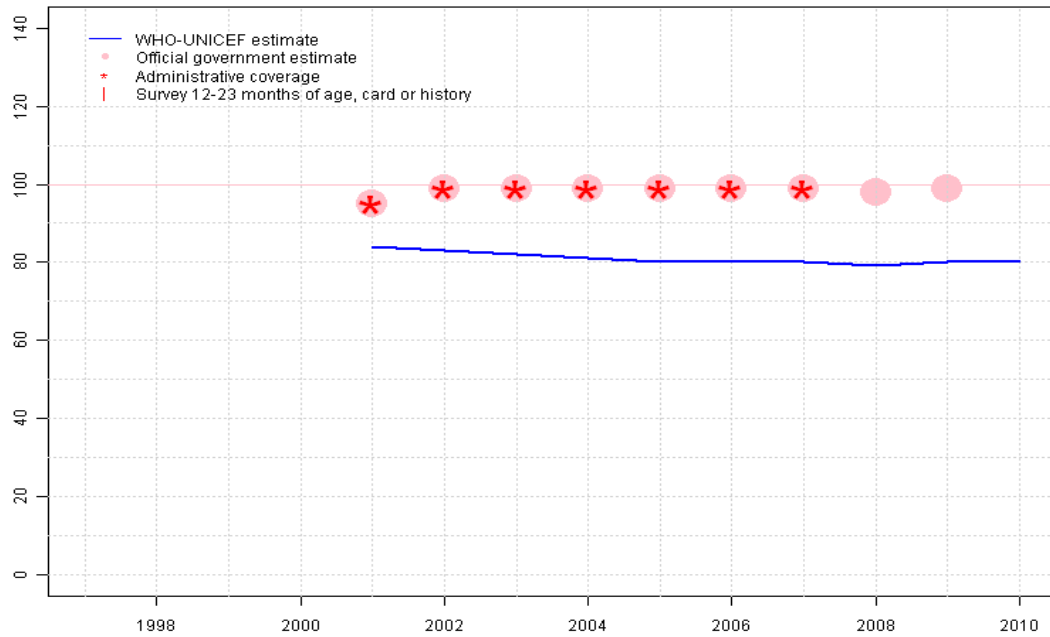
2008: Reported data 98 percent calibrated to 2005 levels. Current estimate of 83 percent changed from previous revision value of 77 percent.

2009: Reported data 99 percent calibrated to 2005 levels. Current estimate of 84 percent changed from previous revision value of 77 percent.

2010: Reported data 99 percent calibrated to 2005 levels.

# Syrian Arab Republic - Hib3

SYR - Hib3

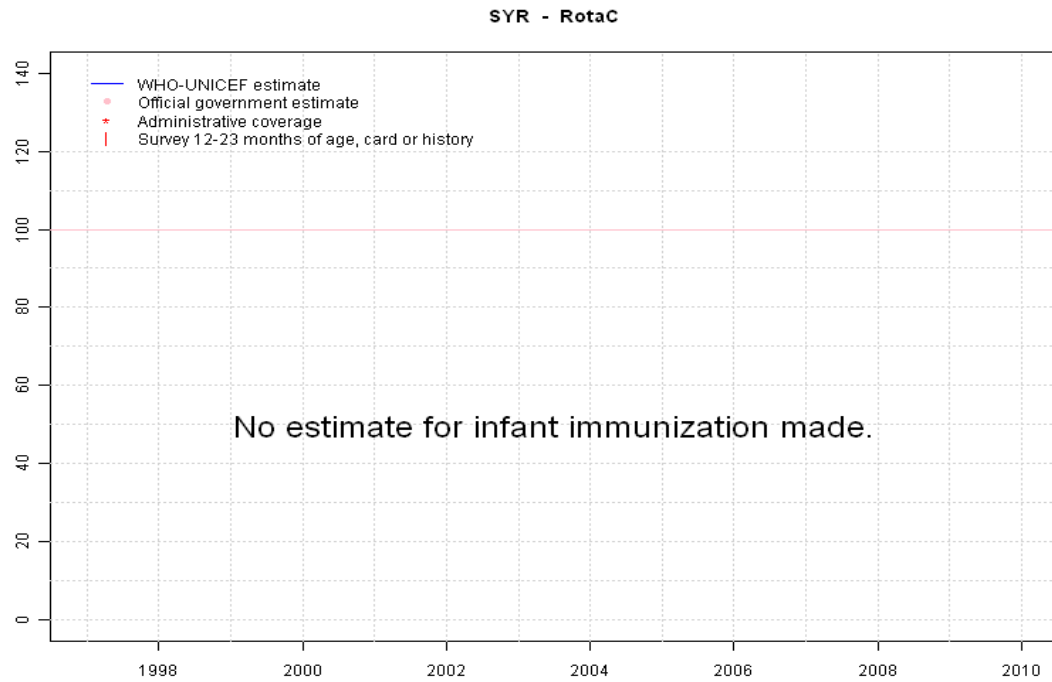


## Description:

- 2001: Estimated immunization coverage levels are based on DTP3 estimates. Hib introduced in 2001
- 2002: Estimated immunization coverage levels are based on DTP3 estimates.
- 2003: Estimated immunization coverage levels are based on DTP3 estimates.
- 2004: Estimated immunization coverage levels are based on DTP3 estimates.
- 2005: Estimated immunization coverage levels are based on DTP3 estimates.
- 2006: Reported data 99 percent calibrated to 2005 levels.
- 2007: Reported data 99 percent calibrated to 2005 levels.
- 2008: Reported data 98 percent calibrated to 2005 levels. Current estimate of 79 percent changed from previous revision value of 80 percent.
- 2009: Reported data 99 percent calibrated to 2005 levels.
- 2010: Estimate based on extrapolation from 2009 value of 80 percent.

	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Estimate	NA	NA	NA	NA	84	83	82	81	80	80	80	79	80	80
Official	NA	NA	NA	NA	95	99	99	99	99	99	99	98	99	NA
Administrative	NA	NA	NA	NA	95	99	99	99	99	99	99	NA	NA	NA
Survey	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

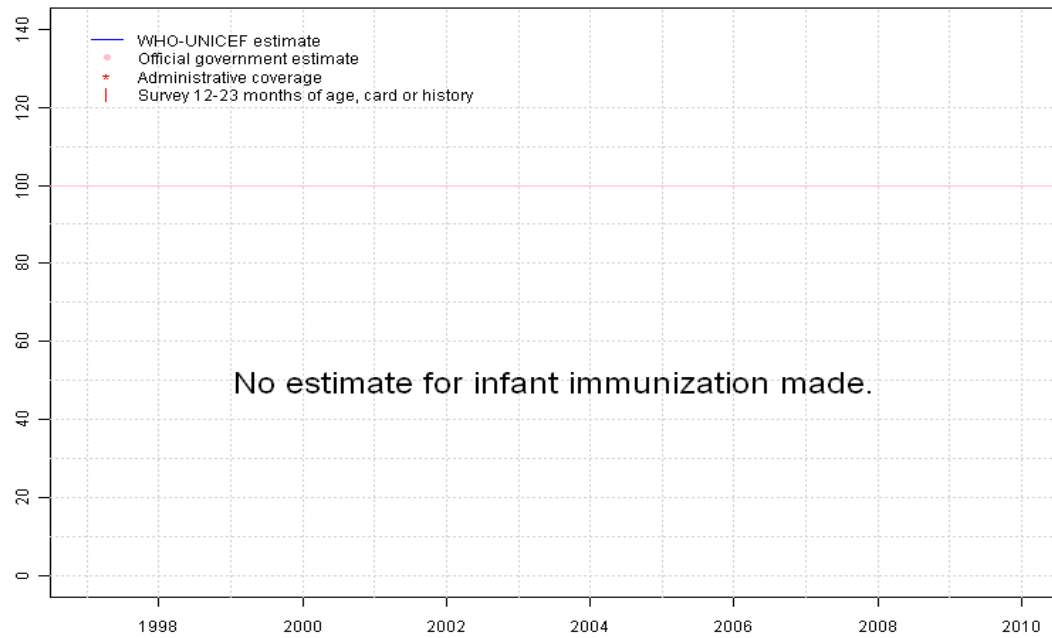
# Syrian Arab Republic - RotaC



	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

# Syrian Arab Republic - PcV3

SYR - 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

# Syrian Arab Republic - survey details

## 2005 Syrian Arab Republic Multiple Indicator Cluster Survey 2006

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	Card	57	12-23 m	2083	55
BCG	Card or History	90	12-23 m	2083	55
BCG	History	33	12-23 m	2083	55
BCG	C or H <12 months	90	12-23 m	2083	55
DTP1	History	31	12-23 m	2083	55
DTP1	C or H <12 months	88	12-23 m	2083	55
DTP1	Card	57	12-23 m	2083	55
DTP1	Card or History	88	12-23 m	2083	55
DTP3	History	24	12-23 m	2083	55
DTP3	Card or History	77	12-23 m	2083	55
DTP3	C or H <12 months	74	12-23 m	2083	55
DTP3	Card	52	12-23 m	2083	55
HepB1	Card or History	89	12-23 m	2083	55
HepB1	C or H <12 months	89	12-23 m	2083	55

HepB1	Card	57	12-23 m	2083	55
HepB1	History	31	12-23 m	2083	55
HepB3	Card	53	12-23 m	2083	55
HepB3	Card or History	77	12-23 m	2083	55
HepB3	History	24	12-23 m	2083	55
HepB3	C or H <12 months	71	12-23 m	2083	55
MCV	History	29	12-23 m	2083	55
MCV	C or H <12 months	74	12-23 m	2083	55
MCV	Card	52	12-23 m	2083	55
MCV	Card or History	81	12-23 m	2083	55
Pol1	History	33	12-23 m	2083	55
Pol1	Card or History	89	12-23 m	2083	55
Pol1	C or H <12 months	88	12-23 m	2083	55
Pol1	Card	56	12-23 m	2083	55
Pol3	History	24	12-23 m	2083	55
Pol3	C or H <12 months	74	12-23 m	2083	55
Pol3	Card	52	12-23 m	2083	55
Pol3	Card or History	76	12-23 m	2083	55

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

[http://www.childinfo.org/immunization\\_countryreports.html](http://www.childinfo.org/immunization_countryreports.html)

[http://www.who.int/immunization\\_monitoring/routine/immunization\\_coverage/en/index4.html](http://www.who.int/immunization_monitoring/routine/immunization_coverage/en/index4.html)

## Syrian Arab Republic

### 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. From 1996 onward, reported PAB estimates have been used.

Year	PAB coverage estimate (%)
1997	79
1998	82
1999	86
2000	90
2001	90
2002	90
2003	92
2004	91
2005	92
2006	93
2007	92
2008	94
2009	94
2010	94

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<sup>1</sup> 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.