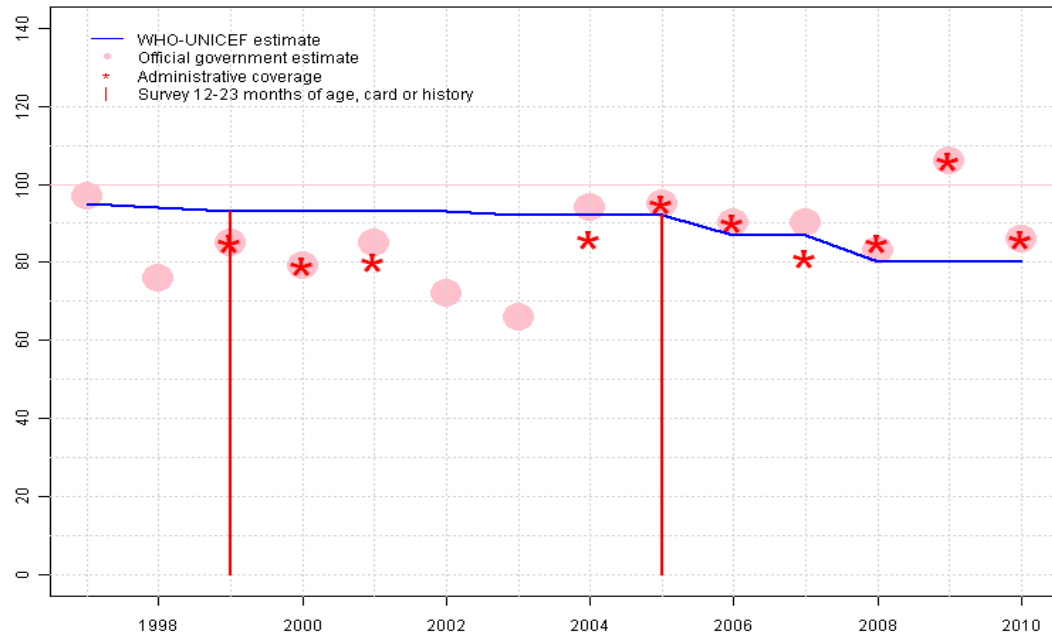


Iraq - BCG

IRQ - BCG



	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Estimate	95	94	93	93	93	93	92	92	92	87	87	80	80	80
Official	97	76	85	79	85	72	66	94	95	90	90	83	106	86
Administrative	NA	NA	85	79	80	NA	NA	86	95	90	81	85	106	86
Survey	NA	NA	93	NA	NA	NA	NA	NA	92	NA	NA	NA	NA	NA

Description:

1997: Legacy estimate.

1998: Estimate based on interpolation between 1997 and 1999. Service and reporting system effected by local situation

1999: Service and reporting system effected by local situation

2000: Estimate based on interpolation between 1999 and 2005. Service and reporting system effected by local situation

2001: Estimate based on interpolation between 1999 and 2005. Service and reporting system effected by local situation

2002: Estimate based on interpolation between 1999 and 2005. Service and reporting system effected by local situation

2003: Estimate based on interpolation between 1999 and 2005. Service and reporting system effected by local situation

2004: Estimate based on interpolation between 1999 and 2005. Service and reporting system effected by local situation

2005: Service and reporting system effected by local situation

2006: Reported data 90 percent calibrated to 2005 levels. Current estimate of 87 percent changed from previous revision value of 92 percent.

2007: Reported data 90 percent calibrated to 2005 levels. Current estimate of 87 percent changed from previous revision value of 92 percent.

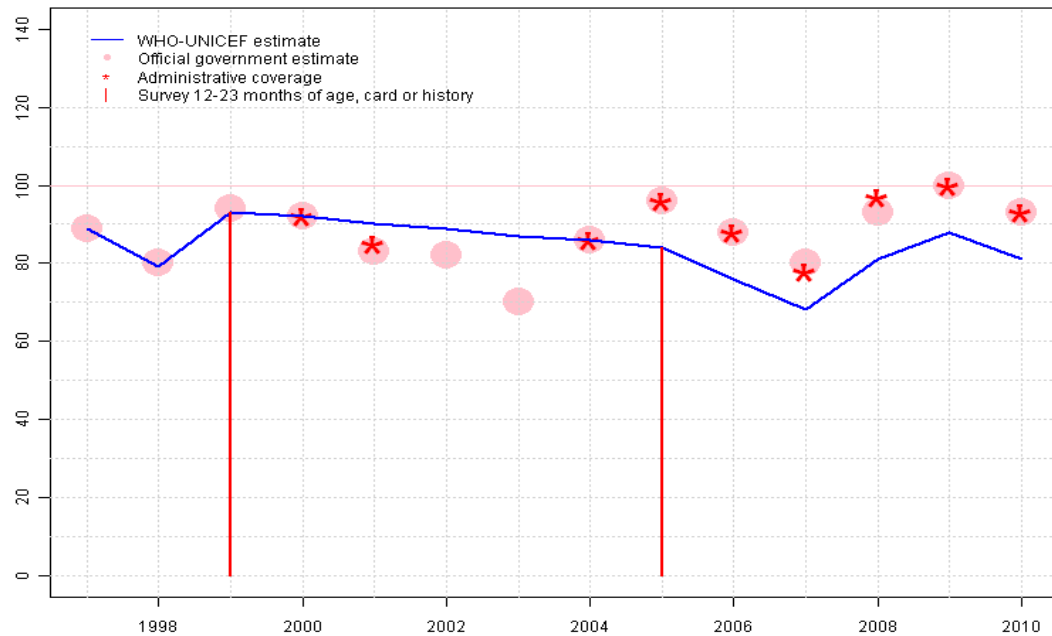
2008: Reported data 83 percent calibrated to 2005 levels. Current estimate of 80 percent changed from previous revision value of 92 percent.

2009: Estimate based on extrapolation from 2008 value of 80 percent. Reported data of 106 percent greater than 100 percent. Reported data not accepted due to an increase from 83 percent to 106 percent with a subsequent decrease to 86 percent. Current estimate of 80 percent changed from previous revision value of 92 percent.

2010: Estimate based on extrapolation from 2008 value of 80 percent. Reported data not accepted due to a change from 106 level to 86 percent. Ministry of Health highlights increases in coverage since 2007. Upcoming MICS4 survey results awaited to confirm the rise in coverage.

Iraq - DTP1

IRQ - DTP1



	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Estimate	89	79	93	92	90	89	87	86	84	76	68	81	88	81
Official	89	80	94	92	83	82	70	86	96	88	80	93	100	93
Administrative	NA	NA	NA	92	85	NA	NA	86	96	88	78	97	100	93
Survey	NA	NA	93	NA	NA	NA	NA	NA	84	NA	NA	NA	NA	NA

Description:

1997: Legacy estimate.

1998: Reported data calibrated to 1997 and 1999 levels. Current estimate of 79 percent changed from previous revision value of 93 percent.

1999: Service and reporting system effected by local situation

2000: Estimate based on interpolation between 1999 and 2005. Service and reporting system effected by local situation

2001: Estimate based on interpolation between 1999 and 2005. Service and reporting system effected by local situation

2002: Estimate based on interpolation between 1999 and 2005. Service and reporting system effected by local situation

2003: Estimate based on interpolation between 1999 and 2005. Reported data not accepted due to a decline from 82 percent to 70 percent with a subsequent increase to 86 percent. Service and reporting system effected by local situation

2004: Estimate based on interpolation between 1999 and 2005. Service and reporting system effected by local situation

2005: Service and reporting system effected by local situation

2006: Reported data 88 percent calibrated to 2005 levels. Current estimate of 76 percent changed from previous revision value of 84 percent.

2007: Reported data 80 percent calibrated to 2005 levels. Current estimate of 68 percent changed from previous revision value of 84 percent.

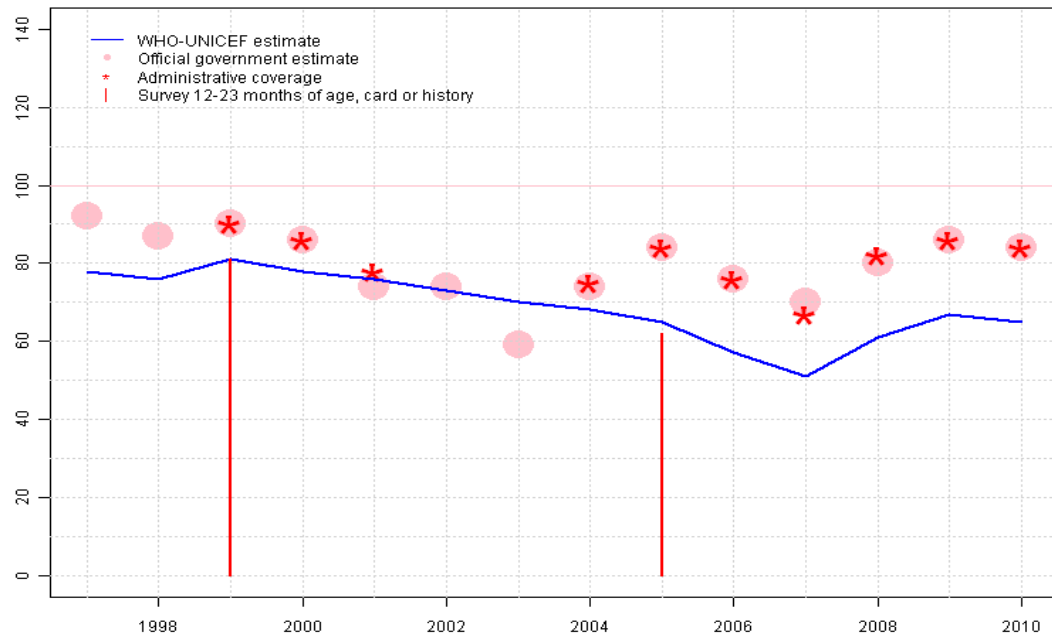
2008: Reported data 93 percent calibrated to 2005 levels. Current estimate of 81 percent changed from previous revision value of 84 percent.

2009: Reported data 100 percent calibrated to 2005 levels. Current estimate of 88 percent changed from previous revision value of 84 percent.

2010: Reported data 93 percent calibrated to 2005 levels. Ministry of Health highlights increases in coverage since 2007. Upcoming MICS4 survey results awaited to confirm the rise in coverage.

Iraq - DTP3

IRQ - DTP3



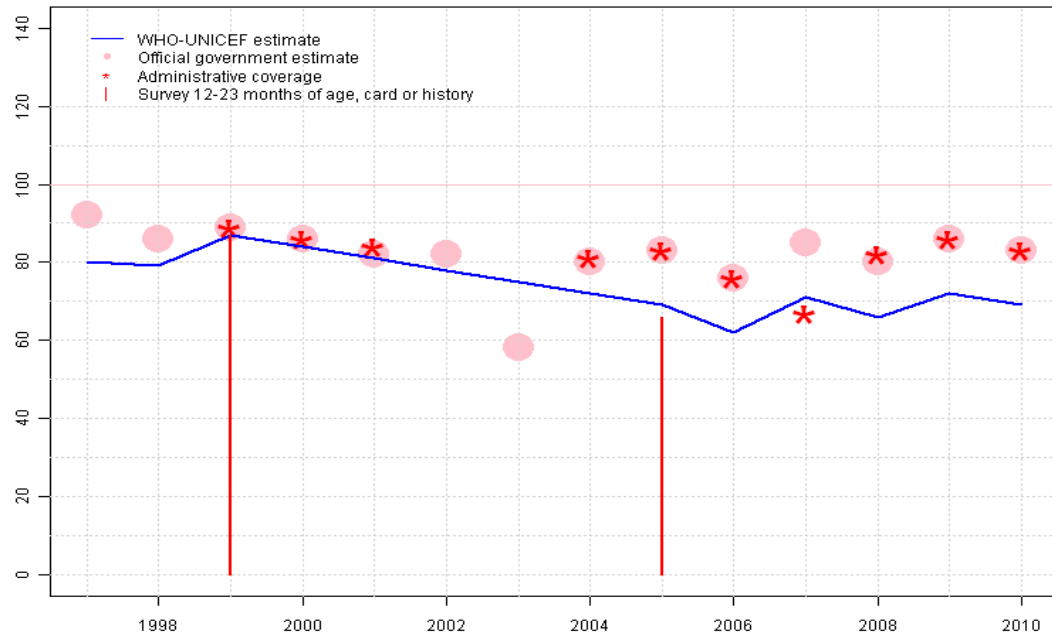
	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Estimate	78	76	81	78	76	73	70	68	65	57	51	61	67	65
Official	92	87	90	86	74	74	59	74	84	76	70	80	86	84
Administrative	NA	NA	90	86	78	NA	NA	75	84	76	67	82	86	84
Survey	NA	NA	81	NA	NA	NA	NA	NA	62	NA	NA	NA	NA	NA

Description:

- 1997: Legacy estimate.
- 1998: Reported data calibrated to 1997 and 1999 levels. Current estimate of 76 percent changed from previous revision value of 80 percent.
- 1999: Service and reporting system effected by local situation
- 2000: Estimate based on interpolation between 1999 and 2005. Service and reporting system effected by local situation
- 2001: Estimate based on interpolation between 1999 and 2005. Service and reporting system effected by local situation
- 2002: Estimate based on interpolation between 1999 and 2005. Service and reporting system effected by local situation
- 2003: Estimate based on interpolation between 1999 and 2005. Reported data not accepted due to a decline from 74 percent to 59 percent with a subsequent increase to 74 percent. Service and reporting system effected by local situation
- 2004: Estimate based on interpolation between 1999 and 2005. Service and reporting system effected by local situation
- 2005: Service and reporting system effected by local situation Survey results of 62 percent modified for recall bias to 65 percent based on 1st dose card or history coverage of 84 percent, 1st dose card only coverage of 49 percent and 3d dose card only coverage of 38 percent.
- 2006: Reported data 76 percent calibrated to 2005 levels. Current estimate of 57 percent changed from previous revision value of 65 percent.
- 2007: Reported data 70 percent calibrated to 2005 levels. Current estimate of 51 percent changed from previous revision value of 65 percent.
- 2008: Reported data 80 percent calibrated to 2005 levels. Current estimate of 61 percent changed from previous revision value of 65 percent.
- 2009: Reported data 86 percent calibrated to 2005 levels. Current estimate of 67 percent changed from previous revision value of 65 percent.
- 2010: Reported data 84 percent calibrated to 2005 levels. Ministry of Health highlights increases in coverage since 2007. Upcoming MICS4 survey results awaited to confirm the rise in coverage.

Iraq - Pol3

IRQ - Pol3



	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Estimate	80	79	87	84	81	78	75	72	69	62	71	66	72	69
Official	92	86	89	86	82	82	58	80	83	76	85	80	86	83
Administrative	NA	NA	89	86	84	NA	NA	81	83	76	67	82	86	83
Survey	NA	NA	87	NA	NA	NA	NA	NA	66	NA	NA	NA	NA	NA

Description:

1997: Legacy estimate.

1998: Reported data calibrated to 1997 and 1999 levels. Current estimate of 79 percent changed from previous revision value of 84 percent.

1999: Service and reporting system effected by local situation

2000: Estimate based on interpolation between 1999 and 2005. Service and reporting system effected by local situation

2001: Estimate based on interpolation between 1999 and 2005. Service and reporting system effected by local situation

2002: Estimate based on interpolation between 1999 and 2005. Service and reporting system effected by local situation

2003: Estimate based on interpolation between 1999 and 2005. Reported data not accepted due to a decline from 82 percent to 58 percent with a subsequent increase to 80 percent. Service and reporting system effected by local situation

2004: Estimate based on interpolation between 1999 and 2005. Service and reporting system effected by local situation

2005: Service and reporting system effected by local situation Survey results of 66 percent modified for recall bias to 69 percent based on 1st dose card or history coverage of 91 percent, 1st dose card only coverage of 49 percent and 3d dose card only coverage of 37 percent.

2006: Reported data 76 percent calibrated to 2005 levels. Current estimate of 62 percent changed from previous revision value of 69 percent.

2007: Reported data 85 percent calibrated to 2005 levels. Current estimate of 71 percent changed from previous revision value of 69 percent.

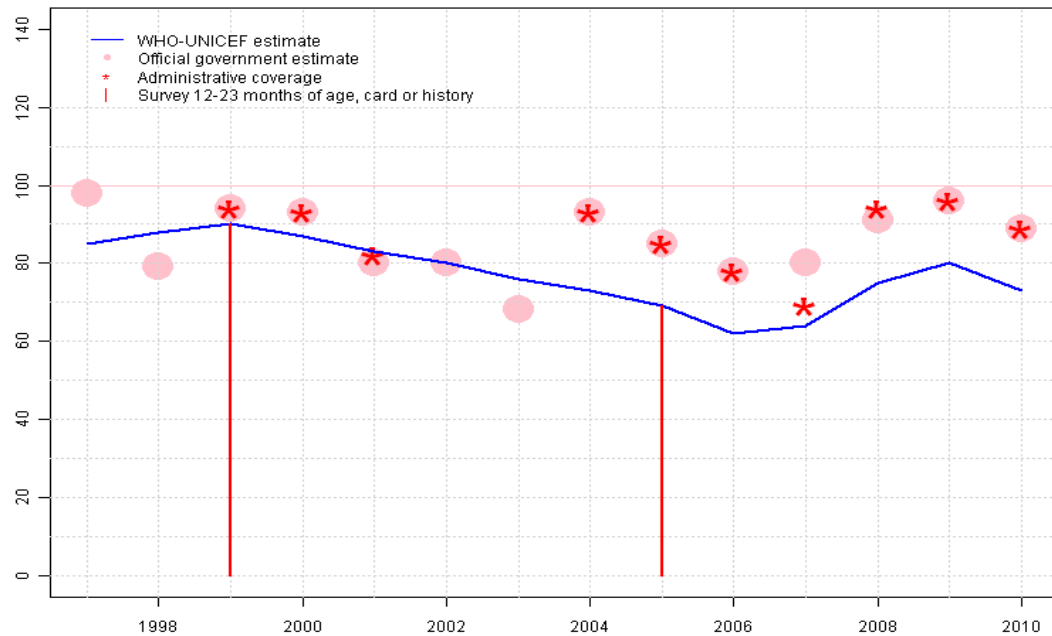
2008: Reported data 80 percent calibrated to 2005 levels. Current estimate of 66 percent changed from previous revision value of 69 percent.

2009: Reported data 86 percent calibrated to 2005 levels. Current estimate of 72 percent changed from previous revision value of 69 percent.

2010: Reported data 83 percent calibrated to 2005 levels. Ministry of Health highlights increases in coverage since 2007. Upcoming MICS4 survey results awaited to confirm the rise in coverage.

Iraq - MCV

IRQ - MCV



	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Estimate	85	88	90	87	83	80	76	73	69	62	64	75	80	73
Official	98	79	94	93	80	80	68	93	85	78	80	91	96	89
Administrative	NA	NA	94	93	82	NA	NA	93	85	78	69	94	96	89
Survey	NA	NA	90	NA	NA	NA	NA	NA	69	NA	NA	NA	NA	NA

Description:

1997: Legacy estimate.

1998: Estimate based on interpolation between 1997 and 1999. Reported data not accepted due to a decline from 98 percent to 79 percent with a subsequent increase to 94 percent.

1999: Service and reporting system effected by local situation

2000: Estimate based on interpolation between 1999 and 2005. Service and reporting system effected by local situation

2001: Estimate based on interpolation between 1999 and 2005. Service and reporting system effected by local situation

2002: Estimate based on interpolation between 1999 and 2005. Service and reporting system effected by local situation

2003: Estimate based on interpolation between 1999 and 2005. Reported data not accepted due to a decline from 80 percent to 68 percent with a subsequent increase to 93 percent. Service and reporting system effected by local situation

2004: Estimate based on interpolation between 1999 and 2005. Service and reporting system effected by local situation

2005: Service and reporting system effected by local situation

2006: Reported data 78 percent calibrated to 2005 levels. Current estimate of 62 percent changed from previous revision value of 69 percent.

2007: Reported data 80 percent calibrated to 2005 levels. Current estimate of 64 percent changed from previous revision value of 69 percent.

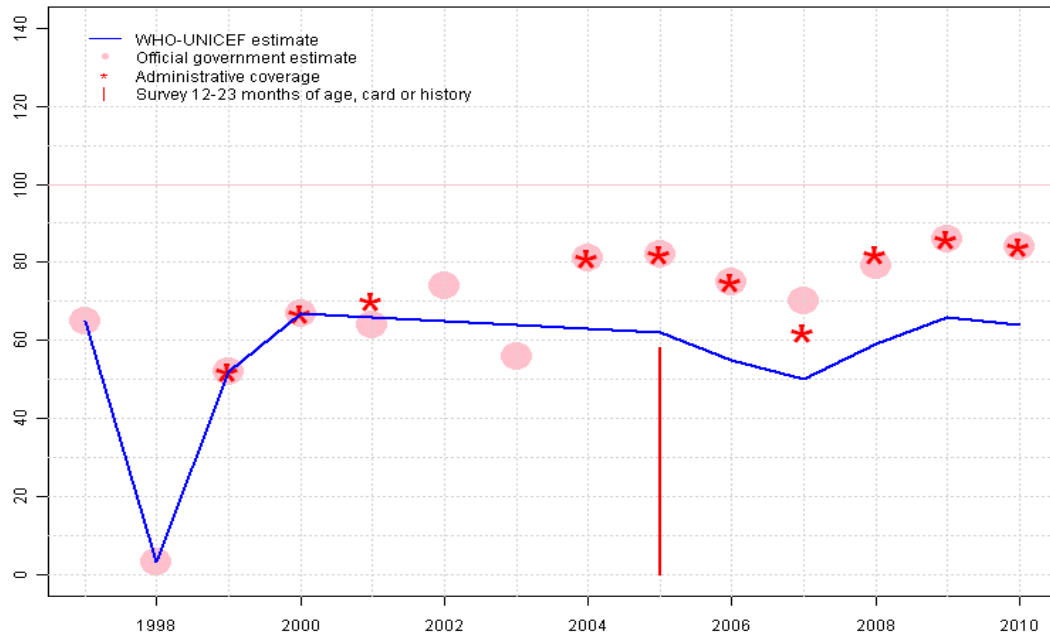
2008: Reported data 91 percent calibrated to 2005 levels. Current estimate of 75 percent changed from previous revision value of 69 percent.

2009: Reported data 96 percent calibrated to 2005 levels. Current estimate of 80 percent changed from previous revision value of 69 percent.

2010: Reported data 89 percent calibrated to 2005 levels. Ministry of Health highlights increases in coverage since 2007. Upcoming MICS4 survey results awaited to confirm the rise in coverage.

Iraq - HepB3

IRQ - HepB3



	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Estimate	65	3	52	67	66	65	64	63	62	55	50	59	66	64
Official	65	3	52	67	64	74	56	81	82	75	70	79	86	84
Administrative	NA	NA	52	67	70	NA	NA	81	82	75	62	82	86	84
Survey	NA	NA	NA	NA	NA	NA	NA	NA	58	NA	NA	NA	NA	NA

Description:

1997: Legacy estimate.

1998: Hepatitis B vaccine introduced in 1994 and Fluctuations are most likely the result of unstable vaccine supply. Reported data not accepted due to a decline from 65 percent to 3 percent with a subsequent increase to 52 percent.

1999: Hepatitis B vaccine introduced in 1994 and Fluctuations are most likely the result of unstable vaccine supply.

2000: Estimates since 1999 assume that supply issues have been resolved and coverage reaches DTP3 levels - both vaccines are recommended at the same ages.

2001: Estimate based on interpolation between 2000 and 2005. Service and reporting system effected by local situation Current estimate of 66 percent changed from previous revision value of 65 percent.

2002: Estimate based on interpolation between 2000 and 2005. Service and reporting system effected by local situation Current estimate of 65 percent changed from previous revision value of 63 percent.

2003: Estimate based on interpolation between 2000 and 2005. Reported data not accepted due to a decline from 74 percent to 56 percent with a subsequent increase to 81 percent. Service and reporting system effected by local situation Current estimate of 64 percent changed from previous revision value of 62 percent.

2004: Estimate based on interpolation between 2000 and 2005. Service and reporting system effected by local situation Current estimate of 63 percent changed from previous revision value of 60 percent.

2005: Estimate based on survey results. 62 percent survey results does not support reported data of 82 percent. Survey results of 58 percent modified for recall bias to 62 percent based on 1st dose card or history coverage of 88 percent, 1st dose card only coverage of 54 percent and 3d dose card only coverage of 38 percent. Current estimate of 62 percent changed from previous revision value of 58 percent.

2006: Reported data 75 percent calibrated to 2005 levels. Current estimate of 55 percent changed from previous revision value of 58 percent.

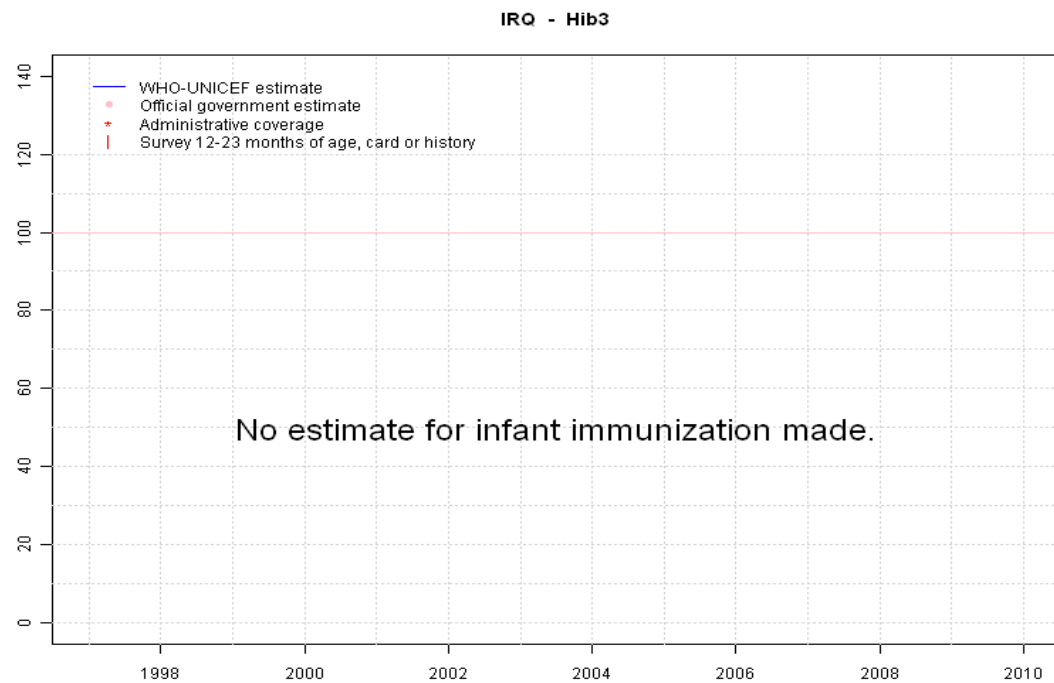
2007: Reported data 70 percent calibrated to 2005 levels. Current estimate of 50 percent changed from previous revision value of 58 percent.

2008: Reported data 79 percent calibrated to 2005 levels. Current estimate of 59 percent changed from previous revision value of 58 percent.

2009: Reported data 86 percent calibrated to 2005 levels. Current estimate of 66 percent changed from previous revision value of 58 percent.

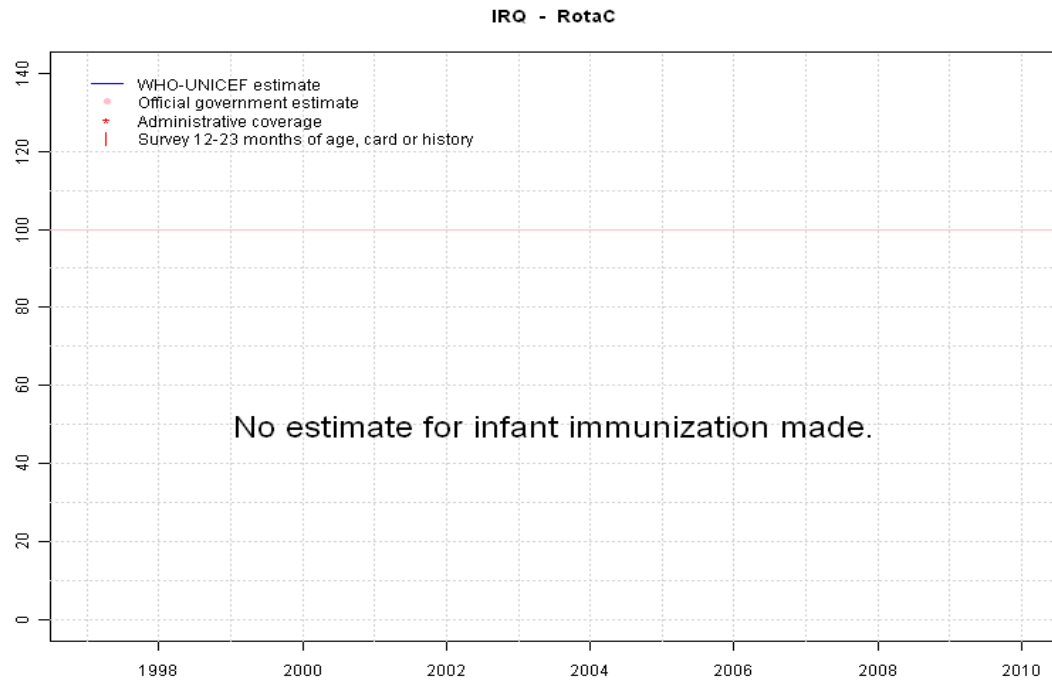
2010: Reported data 84 percent calibrated to 2005 levels. Ministry of Health highlights increases in coverage since 2007. Upcoming MICS4 survey results awaited to confirm the rise in coverage.

Iraq - Hib3



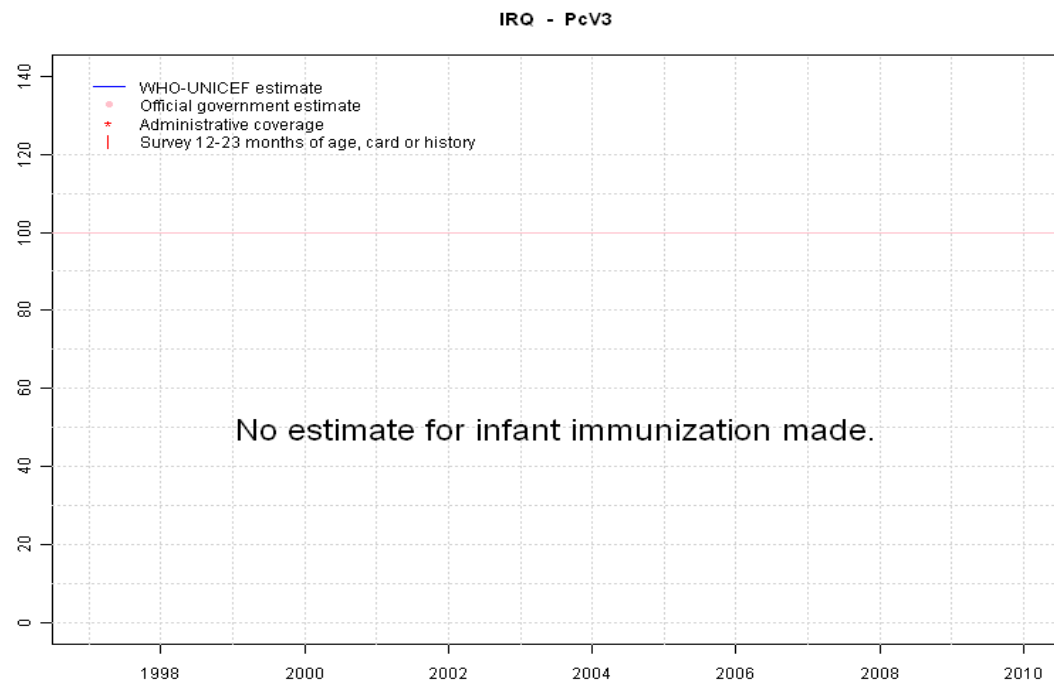
	1997	1998	1999	2000	2001	2002	2003	2004	2005	2006	2007	2008	2009	2010
Estimate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Official	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Administrative	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Survey	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

Iraq - 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

Iraq - 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

Iraq - survey details

2005 Iraq Multiple Indicator Cluster Survey 2006

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	C or H <12 months	91	18-29 m	3329	55
BCG	Card	54	18-29 m	3329	55
BCG	Card or History	92	18-29 m	3329	55
BCG	History	39	18-29 m	3329	55
DTP1	C or H <12 months	82	18-29 m	3329	55
DTP1	Card	49	18-29 m	3329	55
DTP1	Card or History	84	18-29 m	3329	55
DTP1	History	36	18-29 m	3329	55
DTP3	History	24	18-29 m	3329	55
DTP3	C or H <12 months	53	18-29 m	3329	55
DTP3	Card	38	18-29 m	3329	55
DTP3	Card or History	62	18-29 m	3329	55
HepB1	Card	54	18-29 m	3329	55
HepB1	Card or History	88	18-29 m	3329	55
HepB1	History	34	18-29 m	3329	55
HepB1	C or H <12 months	87	18-29 m	3329	55
HepB3	Card	38	18-29 m	3329	55
HepB3	Card or History	58	18-29 m	3329	55
HepB3	History	19	18-29 m	3329	55
HepB3	C or H <12 months	49	18-29 m	3329	55

MCV	Card	39	18-29 m	3329	55
MCV	Card or History	69	18-29 m	3329	55
MCV	History	31	18-29 m	3329	55
Pol1	Card	49	18-29 m	3329	55
Pol1	Card or History	91	18-29 m	3329	55
Pol1	C or H <12 months	88	18-29 m	3329	55
Pol1	History	42	18-29 m	3329	55
Pol3	History	28	18-29 m	3329	55
Pol3	C or H <12 months	57	18-29 m	3329	55
Pol3	Card	37	18-29 m	3329	55
Pol3	Card or History	66	18-29 m	3329	55

1999 Iraq MICS 2000

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	Card or History	93	12-23 m	434	78
DTP1	Card or History	93	12-23 m	434	78
DTP3	Card or History	81	12-23 m	434	78
MCV	Card or History	90	12-23 m	434	78
Pol1	Card or History	96	12-23 m	434	78
Pol3	Card or History	87	12-23 m	434	78

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

Iraq

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	75
1998	70
1999	73
2000	75
2001	86
2002	87
2003	88
2004	88
2005	71
2006	70
2007	69
2008	69
2009	69
2010	80

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.