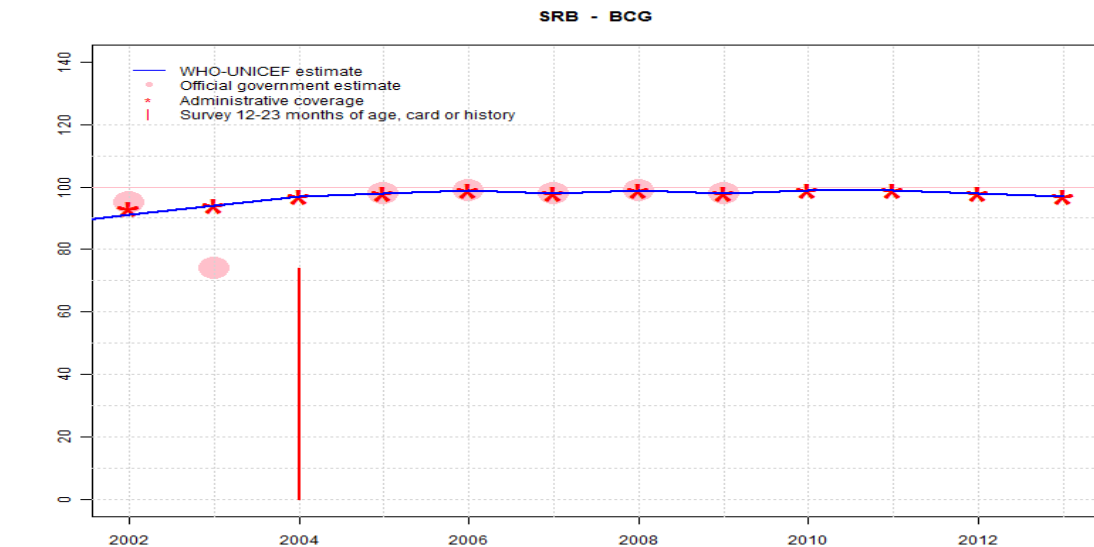


# Serbia - BCG



	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Estimate	91	94	97	98	99	98	99	98	99	99	98	97
Estimate GoC	•	•	•	•	•	•	•	•	•	•	•	•
Official	95	74	NA	98	99	98	99	98	NA	NA	NA	NA
Administrative	93	94	97	98	99	98	99	98	99	99	98	97
Survey	NA	NA	74	NA	NA	NA	NA	NA	NA	NA	NA	NA

The WHO and UNICEF estimates of national immunization coverage (wuenic) are based on data and information that are of varying, and, in some instances, unknown quality. Beginning with the 2011 revision we describe the grade of confidence (GoC) we have in these estimates. As there is no underlying probability model upon which the estimates are based, we are unable to present classical measures of uncertainty, e.g., confidence intervals. Moreover, we have chosen not to make subjective estimates of plausibility/certainty ranges around the coverage. The GoC reflects the degree of empirical support upon which the estimates are based. It is not a judgment of the quality of data reported by national authorities.

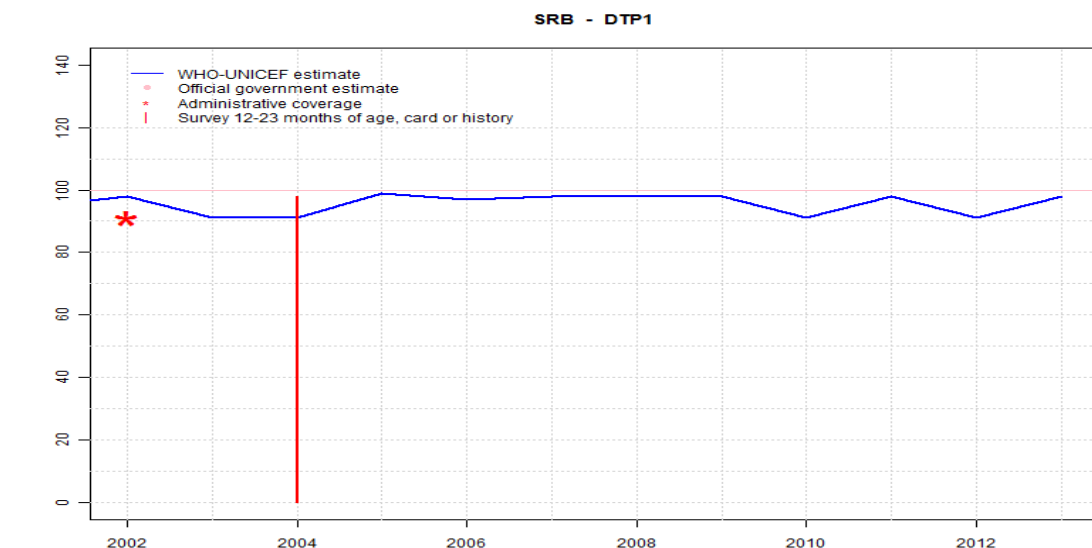
- Estimate is supported by reported data [R+], coverage recalculated with an independent denominator from the World Population Prospects: 2012 revision from the UN Population Division (D+), and at least one supporting survey within 2 years [S+]. While well supported, the estimate still carries a risk of being wrong.
- Estimate is supported by at least one data source; [R+], [S+], or [D+]; and no data source, [R-], [D-], or [S-], challenges the estimate.
- There are no directly supporting data; or data from at least one source; [R-], [D-], [S-]; challenge the estimate.

In all cases these estimates should be used with caution and should be assessed in light of the objective for which they are being used.

## Description:

- 2002: Estimate based on interpolation between data reported by national government. Reported data excluded. Unexplained increase from 67 percent to 95 percent with decrease 74 percent. Estimate challenged by: S-
- 2003: Estimate based on interpolation between data reported by national government. Reported data excluded. Decline in reported coverage from 95 percent to 74 percent with increase to 97 percent. Estimate challenged by: D-S-
- 2004: Estimate based on reported administrative data. Serbia Multiple Indicator Cluster Survey 2005 results ignored by working group. Survey results for BCG not consistent with results from other antigens. Estimate challenged by: S-
- 2005: Estimate based on coverage reported by national government. Estimates do not include Montenegro and Kosovo. Estimate challenged by: D-S-
- 2006: Estimate based on coverage reported by national government. Estimates do not include Kosovo. Estimate challenged by: D-S-
- 2007: Estimate based on coverage reported by national government. Estimates do not include Kosovo. Estimate challenged by: D-
- 2008: Estimate based on coverage reported by national government. Estimates do not include Kosovo. Estimate challenged by: D-
- 2009: Estimate based on coverage reported by national government. Estimates do not include Kosovo. Estimate challenged by: D-
- 2010: Estimate based on reported administrative data. Estimates do not include Kosovo. Estimate challenged by: D-
- 2011: Estimate based on reported administrative data. Estimates do not include Kosovo. Estimate challenged by: D-
- 2012: Estimate based on reported administrative data. Estimate challenged by: D-
- 2013: Estimate based on reported administrative data. No nationally representative household survey within the last 5 years. WHO and UNICEF recommend a high-quality survey to confirm reported levels of coverage. Estimate challenged by: D-

# Serbia - DTP1



	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Estimate	98	91	91	99	97	98	98	98	91	98	91	98
Estimate GoC	•	••	•	••	••	•	•	•	•	•	•	•
Official	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Administrative	91	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Survey	NA	NA	98	NA	NA	NA	NA	NA	NA	NA	NA	NA

The WHO and UNICEF estimates of national immunization coverage (wuenic) are based on data and information that are of varying, and, in some instances, unknown quality. Beginning with the 2011 revision we describe the grade of confidence (GoC) we have in these estimates. As there is no underlying probability model upon which the estimates are based, we are unable to present classical measures of uncertainty, e.g., confidence intervals. Moreover, we have chosen not to make subjective estimates of plausibility/certainty ranges around the coverage. The GoC reflects the degree of empirical support upon which the estimates are based. It is not a judgment of the quality of data reported by national authorities.

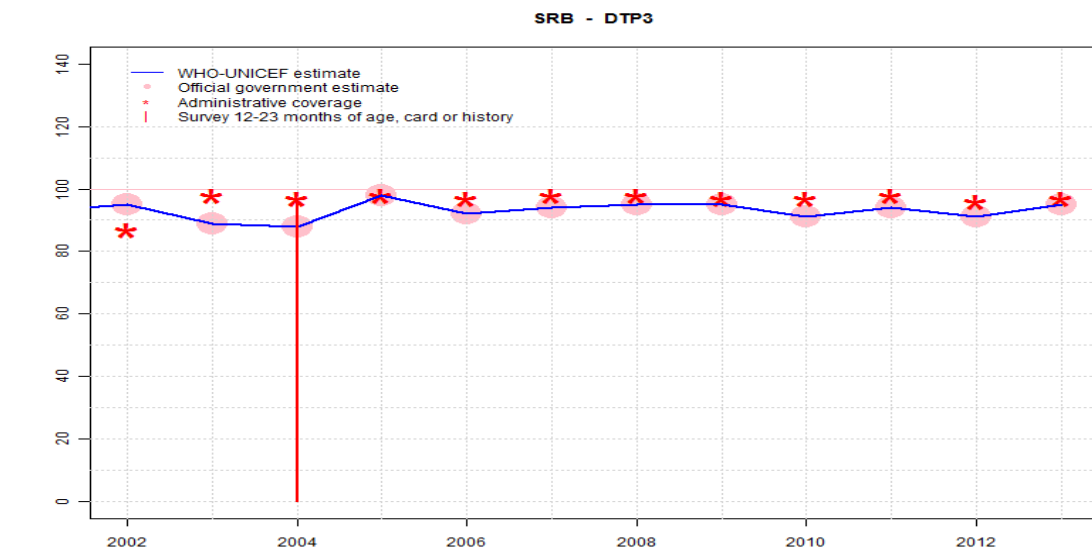
- Estimate is supported by reported data [R+], coverage recalculated with an independent denominator from the World Population Prospects: 2012 revision from the UN Population Division (D+), and at least one supporting survey within 2 years [S+]. While well supported, the estimate still carries a risk of being wrong.
- Estimate is supported by at least one data source; [R+], [S+], or [D+]; and no data source, [R-], [D-], or [S-], challenges the estimate.
- There are no directly supporting data; or data from at least one source; [R-], [D-], [S-]; challenge the estimate.

In all cases these estimates should be used with caution and should be assessed in light of the objective for which they are being used.

## Description:

- 2002: DTP1 coverage estimated based on DTP3 coverage of 95. Estimate challenged by: D-R-
- 2003: Reported data calibrated to 1997 and 2004 levels. GoC=S+
- 2004: Estimate based on extrapolation from data reported by national government supported by survey. Survey evidence of 98 percent based on 1 survey(s). Estimate challenged by: D-
- 2005: DTP1 coverage estimated based on DTP3 coverage of 98. Estimates do not include Montenegro and Kosovo. GoC=S+
- 2006: DTP1 coverage estimated based on DTP3 coverage of 92. Estimates do not include Kosovo. GoC=S+
- 2007: DTP1 coverage estimated based on DTP3 coverage of 94. Estimates do not include Kosovo. GoC=No accepted empirical data
- 2008: DTP1 coverage estimated based on DTP3 coverage of 95. Estimates do not include Kosovo. GoC=No accepted empirical data
- 2009: DTP1 coverage estimated based on DTP3 coverage of 95. Estimates do not include Kosovo. GoC=No accepted empirical data
- 2010: Estimate based on extrapolation from data reported by national government. Estimates do not include Kosovo. GoC=No accepted empirical data
- 2011: DTP1 coverage estimated based on DTP3 coverage of 94. Estimates do not include Kosovo. GoC=No accepted empirical data
- 2012: Estimate based on extrapolation from data reported by national government. GoC=No accepted empirical data
- 2013: DTP1 coverage estimated based on DTP3 coverage of 95. No nationally representative household survey within the last 5 years. WHO and UNICEF recommend a high-quality survey to confirm reported levels of coverage. GoC=No accepted empirical data

# Serbia - DTP3



	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Estimate	95	89	88	98	92	94	95	95	91	94	91	95
Estimate GoC	●●●	●	●●	●	●	●	●	●	●	●	●	●
Official	95	89	88	98	92	94	95	95	91	94	91	95
Administrative	87	98	97	98	97	98	98	97	97	98	96	97
Survey	NA	NA	96	NA	NA	NA	NA	NA	NA	NA	NA	NA

The WHO and UNICEF estimates of national immunization coverage (wuenic) are based on data and information that are of varying, and, in some instances, unknown quality. Beginning with the 2011 revision we describe the grade of confidence (GoC) we have in these estimates. As there is no underlying probability model upon which the estimates are based, we are unable to present classical measures of uncertainty, e.g., confidence intervals. Moreover, we have chosen not to make subjective estimates of plausibility/certainty ranges around the coverage. The GoC reflects the degree of empirical support upon which the estimates are based. It is not a judgment of the quality of data reported by national authorities.

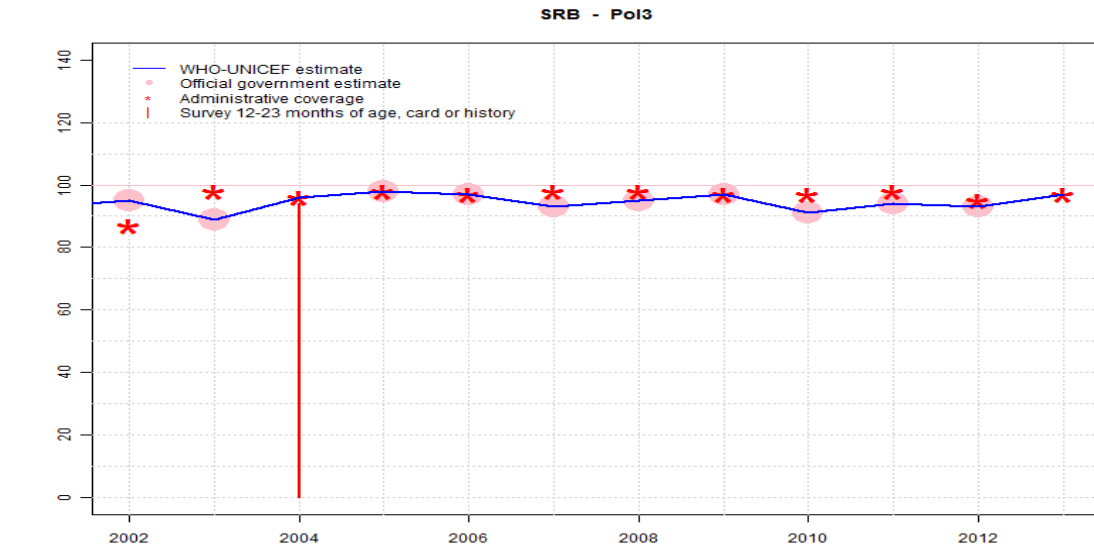
- Estimate is supported by reported data [R+], coverage recalculated with an independent denominator from the World Population Prospects: 2012 revision from the UN Population Division (D+), and at least one supporting survey within 2 years [S+]. While well supported, the estimate still carries a risk of being wrong.
- Estimate is supported by at least one data source; [R+], [S+], or [D+]; and no data source, [R-], [D-], or [S-], challenges the estimate.
- There are no directly supporting data; or data from at least one source; [R-], [D-], [S-]; challenge the estimate.

In all cases these estimates should be used with caution and should be assessed in light of the objective for which they are being used.

## Description:

- 2002: Estimate based on coverage reported by national government. GoC=R+ S+ D+
- 2003: Estimate based on coverage reported by national government. Estimate challenged by: D-
- 2004: Estimate based on reported data. Serbia Multiple Indicator Cluster Survey 2005 card or history results of 96 percent modified for recall bias to 99 percent based on 1st dose card or history coverage of 98 percent, 1st dose card only coverage of 73 percent and 3d dose card only coverage of 78 percent. GoC=R+ D+
- 2005: Estimate based on coverage reported by national government. Estimates do not include Montenegro and Kosovo. Estimate challenged by: D-
- 2006: Estimate based on coverage reported by national government. Estimates do not include Kosovo. Estimate challenged by: D-
- 2007: Estimate based on coverage reported by national government. Estimates do not include Kosovo. Estimate challenged by: D-
- 2008: Estimate based on coverage reported by national government. Estimates do not include Kosovo. Estimate challenged by: D-
- 2009: Estimate based on coverage reported by national government. Estimates do not include Kosovo. Estimate challenged by: D-
- 2010: Estimate based on coverage reported by national government. Estimates do not include Kosovo. Estimate challenged by: D-
- 2011: Estimate based on coverage reported by national government. Estimates do not include Kosovo. Estimate challenged by: D-
- 2012: Estimate based on coverage reported by national government. Estimate challenged by: D-
- 2013: Estimate based on coverage reported by national government. No nationally representative household survey within the last 5 years. WHO and UNICEF recommend a high-quality survey to confirm reported levels of coverage. Estimate challenged by: D-

# Serbia - Pol3



	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Estimate	95	89	96	98	97	93	95	97	91	94	93	97
Estimate GoC	●●●	●	●●●	●	●●	●	●	●	●	●	●	●
Official	95	89	NA	98	97	93	95	97	91	94	93	NA
Administrative	87	98	96	98	97	98	98	97	97	98	95	97
Survey	NA	NA	94	NA	NA	NA	NA	NA	NA	NA	NA	NA

The WHO and UNICEF estimates of national immunization coverage (wuenic) are based on data and information that are of varying, and, in some instances, unknown quality. Beginning with the 2011 revision we describe the grade of confidence (GoC) we have in these estimates. As there is no underlying probability model upon which the estimates are based, we are unable to present classical measures of uncertainty, e.g., confidence intervals. Moreover, we have chosen not to make subjective estimates of plausibility/certainty ranges around the coverage. The GoC reflects the degree of empirical support upon which the estimates are based. It is not a judgment of the quality of data reported by national authorities.

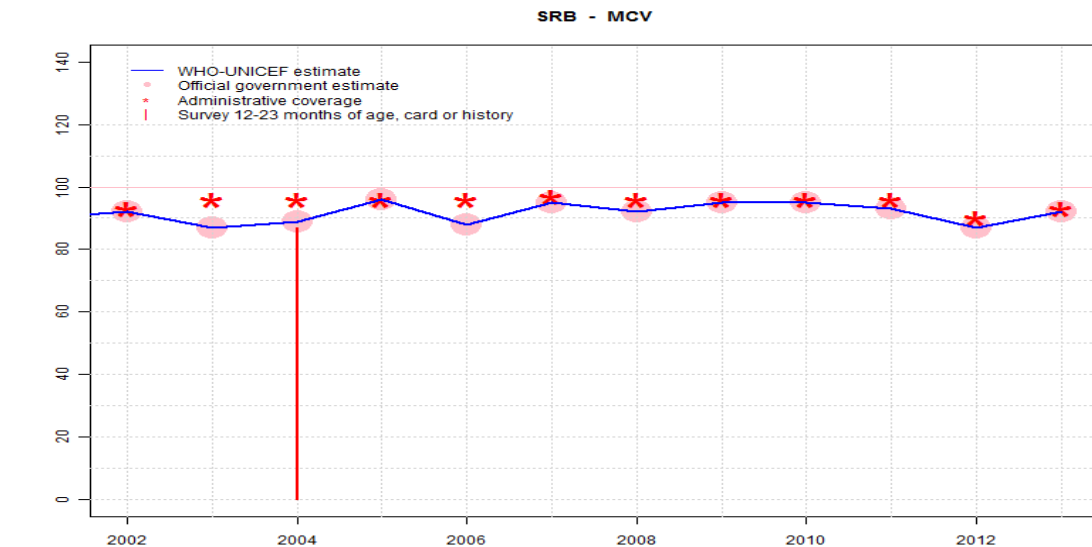
- Estimate is supported by reported data [R+], coverage recalculated with an independent denominator from the World Population Prospects: 2012 revision from the UN Population Division (D+), and at least one supporting survey within 2 years [S+]. While well supported, the estimate still carries a risk of being wrong.
- Estimate is supported by at least one data source; [R+], [S+], or [D+]; and no data source, [R-], [D-], or [S-], challenges the estimate.
- There are no directly supporting data; or data from at least one source; [R-], [D-], [S-]; challenge the estimate.

In all cases these estimates should be used with caution and should be assessed in light of the objective for which they are being used.

## Description:

- 2002: Estimate based on coverage reported by national government. GoC=R+ S+ D+
- 2003: Estimate based on coverage reported by national government. Estimate challenged by: D-
- 2004: Estimate based on administrative data reported by national government supported by survey. Survey evidence of 99 percent based on 1 survey(s). Serbia Multiple Indicator Cluster Survey 2005 card or history results of 94 percent modified for recall bias to 99 percent based on 1st dose card or history coverage of 97 percent, 1st dose card only coverage of 70 percent and 3d dose card only coverage of 75 percent. GoC=R+ S+ D+
- 2005: Estimate based on coverage reported by national government. Estimates do not include Montenegro and Kosovo. Estimate challenged by: D-
- 2006: Estimate based on coverage reported by national government. Estimates do not include Kosovo. GoC=R+ S+
- 2007: Estimate based on coverage reported by national government. Estimates do not include Kosovo. Estimate challenged by: D-
- 2008: Estimate based on coverage reported by national government. Estimates do not include Kosovo. Estimate challenged by: D-
- 2009: Estimate based on coverage reported by national government. Estimates do not include Kosovo. Estimate challenged by: D-
- 2010: Estimate based on coverage reported by national government. Estimates do not include Kosovo. Estimate challenged by: D-
- 2011: Estimate based on coverage reported by national government. Estimates do not include Kosovo. Estimate challenged by: D-
- 2012: Estimate based on coverage reported by national government. Estimate challenged by: D-
- 2013: Estimate based on reported administrative data. No nationally representative household survey within the last 5 years. WHO and UNICEF recommend a high-quality survey to confirm reported levels of coverage. Estimate challenged by: D-

# Serbia - MCV



	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Estimate	92	87	89	96	88	95	92	95	95	93	87	92
Estimate GoC	●●●	●	●●●	●	●	●	●	●	●	●	●	●
Official	92	87	89	96	88	95	92	95	95	93	87	92
Administrative	93	96	96	96	96	97	96	96	96	96	90	93
Survey	NA	NA	87	NA	NA	NA	NA	NA	NA	NA	NA	NA

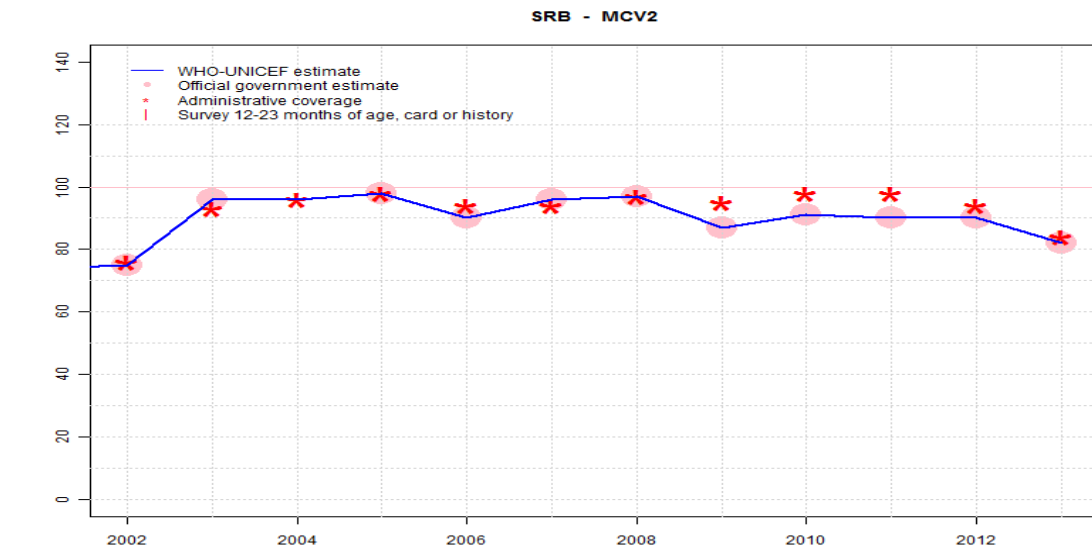
The WHO and UNICEF estimates of national immunization coverage (wuenic) are based on data and information that are of varying, and, in some instances, unknown quality. Beginning with the 2011 revision we describe the grade of confidence (GoC) we have in these estimates. As there is no underlying probability model upon which the estimates are based, we are unable to present classical measures of uncertainty, e.g., confidence intervals. Moreover, we have chosen not to make subjective estimates of plausibility/certainty ranges around the coverage. The GoC reflects the degree of empirical support upon which the estimates are based. It is not a judgment of the quality of data reported by national authorities.

- Estimate is supported by reported data [R+], coverage recalculated with an independent denominator from the World Population Prospects: 2012 revision from the UN Population Division (D+), and at least one supporting survey within 2 years [S+]. While well supported, the estimate still carries a risk of being wrong.
- Estimate is supported by at least one data source; [R+], [S+], or [D+]; and no data source, [R-], [D-], or [S-], challenges the estimate.
- There are no directly supporting data; or data from at least one source; [R-], [D-], [S-]; challenge the estimate.

In all cases these estimates should be used with caution and should be assessed in light of the objective for which they are being used.

## Description:

- 2002: Estimate based on coverage reported by national government. GoC=R+ S+ D+
- 2003: Estimate based on coverage reported by national government. Estimate challenged by: D-
- 2004: Estimate based on coverage reported by national government supported by survey. Survey evidence of 87 percent based on 1 survey(s). GoC=R+ S+ D+
- 2005: Estimate based on coverage reported by national government. Estimates do not include Montenegro and Kosovo. Estimate challenged by: D-
- 2006: Estimate based on coverage reported by national government. Estimates do not include Kosovo. Estimate challenged by: D-
- 2007: Estimate based on coverage reported by national government. Estimates do not include Kosovo. Estimate challenged by: D-
- 2008: Estimate based on coverage reported by national government. Estimates do not include Kosovo. Estimate challenged by: D-
- 2009: Estimate based on coverage reported by national government. Estimates do not include Kosovo. Estimate challenged by: D-
- 2010: Estimate based on coverage reported by national government. Estimates do not include Kosovo. Estimate challenged by: D-
- 2011: Estimate based on coverage reported by national government. Estimates do not include Kosovo. Estimate challenged by: D-
- 2012: Estimate based on coverage reported by national government. Estimate challenged by: D-
- 2013: Estimate based on coverage reported by national government. No nationally representative household survey within the last 5 years. WHO and UNICEF recommend a high-quality survey to confirm reported levels of coverage. Estimate challenged by: D-



	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Estimate	75	96	96	98	90	96	97	87	91	90	90	82
Estimate GoC	••	•	•	•	•	•	•	•	•	•	•	•
Official	75	96	NA	98	90	96	97	87	91	90	90	82
Administrative	76	93	96	98	94	94	97	95	98	98	94	84
Survey	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

The WHO and UNICEF estimates of national immunization coverage (wuenic) are based on data and information that are of varying, and, in some instances, unknown quality. Beginning with the 2011 revision we describe the grade of confidence (GoC) we have in these estimates. As there is no underlying probability model upon which the estimates are based, we are unable to present classical measures of uncertainty, e.g., confidence intervals. Moreover, we have chosen not to make subjective estimates of plausibility/certainty ranges around the coverage. The GoC reflects the degree of empirical support upon which the estimates are based. It is not a judgment of the quality of data reported by national authorities.

- Estimate is supported by reported data [R+], coverage recalculated with an independent denominator from the World Population Prospects: 2012 revision from the UN Population Division (D+), and at least one supporting survey within 2 years [S+]. While well supported, the estimate still carries a risk of being wrong.
- Estimate is supported by at least one data source; [R+], [S+], or [D+]; and no data source, [R-], [D-], or [S-], challenges the estimate.
- There are no directly supporting data; or data from at least one source; [R-], [D-], [S-]; challenge the estimate.

In all cases these estimates should be used with caution and should be assessed in light of the objective for which they are being used.

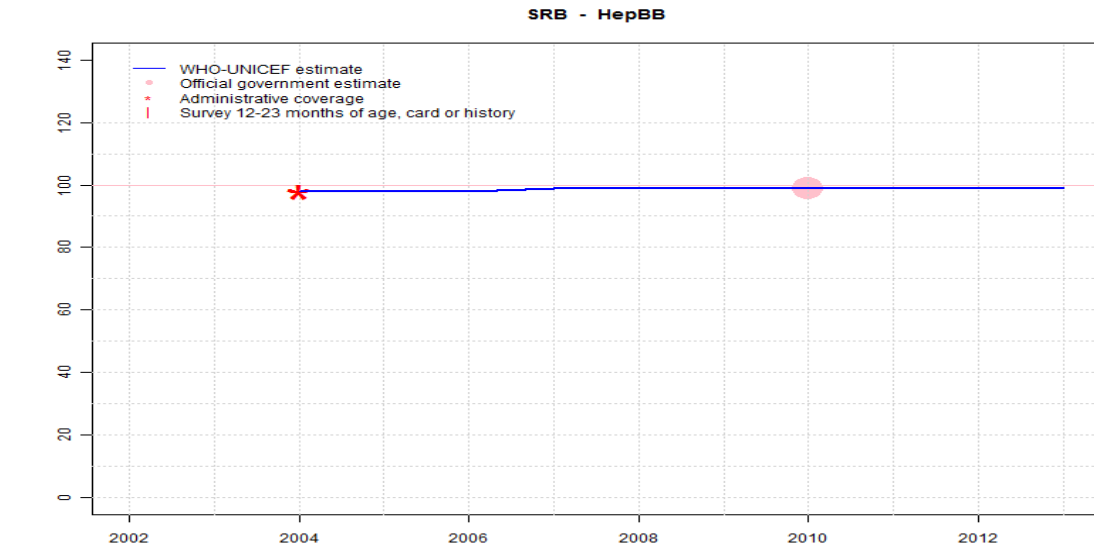
## Description:

Coverage estimates for the second dose of measles containing vaccine are for children by the nationally recommended age.

- 2002: Estimate based on coverage reported by national government. GoC=R+D+
- 2003: Estimate based on coverage reported by national government. Estimate challenged by: D-
- 2004: Estimate based on reported administrative estimate. Estimate challenged by: D-
- 2005: Estimate based on coverage reported by national government. Estimate challenged by: D-
- 2006: Estimate based on coverage reported by national government. Estimate challenged by: D-
- 2007: Estimate based on coverage reported by national government. Estimate challenged by: D-
- 2008: Estimate based on coverage reported by national government. Estimate challenged by: D-
- 2009: Estimate based on coverage reported by national government. Estimate challenged by: D-
- 2010: Estimate based on coverage reported by national government. Estimate challenged by: D-
- 2011: Estimate based on coverage reported by national government. Estimate challenged by: D-
- 2012: Estimate based on coverage reported by national government. Estimate challenged by: D-
- 2013: Estimate based on coverage reported by national government. No nationally representative household survey within the last 5 years. WHO and UNICEF recommend a high-quality survey to confirm reported levels of coverage. Estimate challenged by: D-



# Serbia - HepBB



	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Estimate	NA	NA	98	98	98	99	99	99	99	99	99	99
Estimate GoC	NA	NA	•	•	•	•	•	•	••	•	•	•
Official	NA	NA	NA	NA	NA	NA	NA	NA	99	NA	NA	NA
Administrative	NA	NA	98	NA	NA	NA	NA	NA	NA	NA	NA	NA
Survey	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

The WHO and UNICEF estimates of national immunization coverage (wuenic) are based on data and information that are of varying, and, in some instances, unknown quality. Beginning with the 2011 revision we describe the grade of confidence (GoC) we have in these estimates. As there is no underlying probability model upon which the estimates are based, we are unable to present classical measures of uncertainty, e.g., confidence intervals. Moreover, we have chosen not to make subjective estimates of plausibility/certainty ranges around the coverage. The GoC reflects the degree of empirical support upon which the estimates are based. It is not a judgment of the quality of data reported by national authorities.

- Estimate is supported by reported data [R+], coverage recalculated with an independent denominator from the World Population Prospects: 2012 revision from the UN Population Division (D+), and at least one supporting survey within 2 years [S+]. While well supported, the estimate still carries a risk of being wrong.
- Estimate is supported by at least one data source; [R+], [S+], or [D+]; and no data source, [R-], [D-], or [S-], challenges the estimate.
- There are no directly supporting data; or data from at least one source; [R-], [D-], [S-]; challenge the estimate.

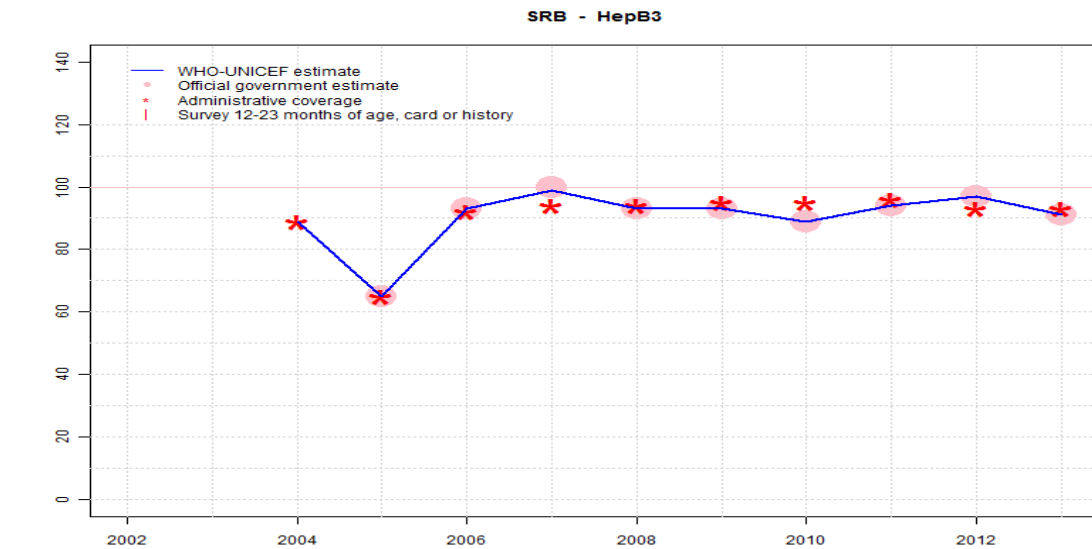
In all cases these estimates should be used with caution and should be assessed in light of the objective for which they are being used.

## Description:

- 2004: Estimate based on reported administrative estimate. Estimate challenged by: D-
- 2005: Estimate based on interpolation between reported values. GoC=No accepted empirical data
- 2006: Estimate based on interpolation between reported values. GoC=No accepted empirical data
- 2007: Estimate based on interpolation between reported values. GoC=No accepted empirical data
- 2008: Estimate based on interpolation between reported values. GoC=No accepted empirical data
- 2009: Estimate based on interpolation between reported values. GoC=No accepted empirical data
- 2010: Estimate based on coverage reported by national government. GoC=R+
- 2011: Estimate based on extrapolation from data reported by national government. GoC=No accepted empirical data
- 2012: Estimate based on extrapolation from data reported by national government. GoC=No accepted empirical data
- 2013: Estimate based on extrapolation from data reported by national government. No nationally representative household survey within the last 5 years. WHO and UNICEF recommend a high-quality survey to confirm reported levels of coverage. GoC=No accepted empirical data



# Serbia - HepB3



	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Estimate	NA	NA	89	65	93	99	93	93	89	94	97	91
Estimate GoC	NA	NA	•	•	•	•	•	•	•	•	•	•
Official	NA	NA	NA	65	93	100	93	93	89	94	97	91
Administrative	NA	NA	89	65	92	94	94	95	95	96	93	93
Survey	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

The WHO and UNICEF estimates of national immunization coverage (wuenic) are based on data and information that are of varying, and, in some instances, unknown quality. Beginning with the 2011 revision we describe the grade of confidence (GoC) we have in these estimates. As there is no underlying probability model upon which the estimates are based, we are unable to present classical measures of uncertainty, e.g., confidence intervals. Moreover, we have chosen not to make subjective estimates of plausibility/certainty ranges around the coverage. The GoC reflects the degree of empirical support upon which the estimates are based. It is not a judgment of the quality of data reported by national authorities.

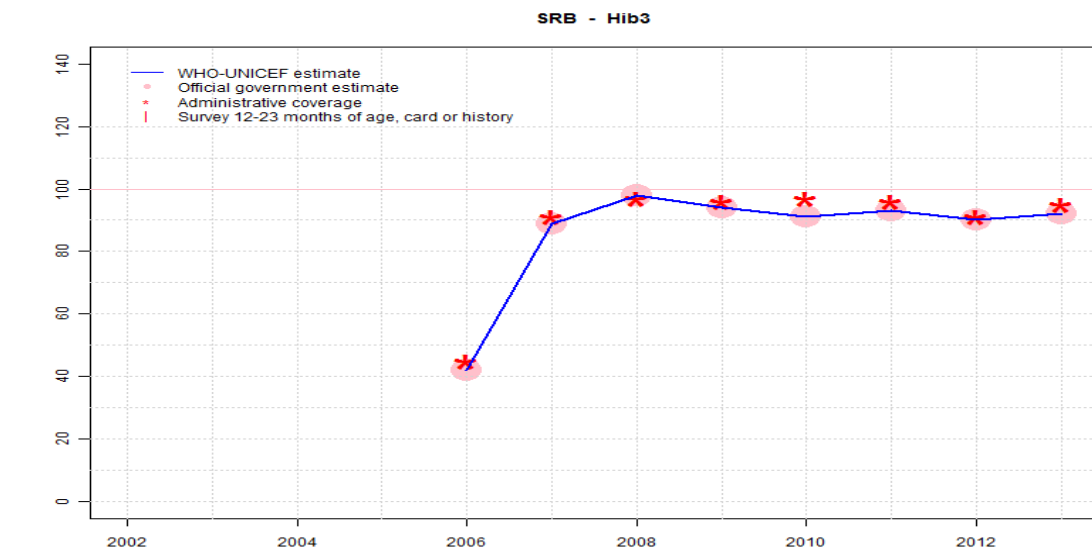
- Estimate is supported by reported data [R+], coverage recalculated with an independent denominator from the World Population Prospects: 2012 revision from the UN Population Division (D+), and at least one supporting survey within 2 years [S+]. While well supported, the estimate still carries a risk of being wrong.
- Estimate is supported by at least one data source; [R+], [S+], or [D+]; and no data source, [R-], [D-], or [S-], challenges the estimate.
- There are no directly supporting data; or data from at least one source; [R-], [D-], [S-]; challenge the estimate.

In all cases these estimates should be used with caution and should be assessed in light of the objective for which they are being used.

## Description:

- 2004: Estimate based on reported administrative estimate. HepB partially introduced in 2002. Reporting started in 2004. Estimate challenged by: D-
- 2005: Estimate based on coverage reported by national government. Estimates do not include Montenegro and Kosovo. HepB partially introduced. Estimate challenged by: D-
- 2006: Estimate based on coverage reported by national government. Estimates do not include Kosovo. Estimate challenged by: D-
- 2007: Estimate based on coverage reported by national government. Estimates do not include Kosovo. Estimate challenged by: D-
- 2008: Estimate based on coverage reported by national government. Estimates do not include Kosovo. Estimate challenged by: D-
- 2009: Estimate based on coverage reported by national government. Estimates do not include Kosovo. Estimate challenged by: D-
- 2010: Estimate based on coverage reported by national government. Estimates do not include Kosovo. Estimate challenged by: D-
- 2011: Estimate based on coverage reported by national government. Estimates do not include Kosovo. Estimate challenged by: D-
- 2012: Estimate based on coverage reported by national government. Estimate challenged by: D-
- 2013: Estimate based on coverage reported by national government. No nationally representative household survey within the last 5 years. WHO and UNICEF recommend a high-quality survey to confirm reported levels of coverage. Estimate challenged by: D-

# Serbia - Hib3



	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Estimate	NA	NA	NA	NA	42	89	98	94	91	93	90	92
Estimate GoC	NA	NA	NA	NA	•	•	•	•	•	•	•	•
Official	NA	NA	NA	NA	42	89	98	94	91	93	90	92
Administrative	NA	NA	NA	NA	45	91	97	96	97	96	91	95
Survey	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

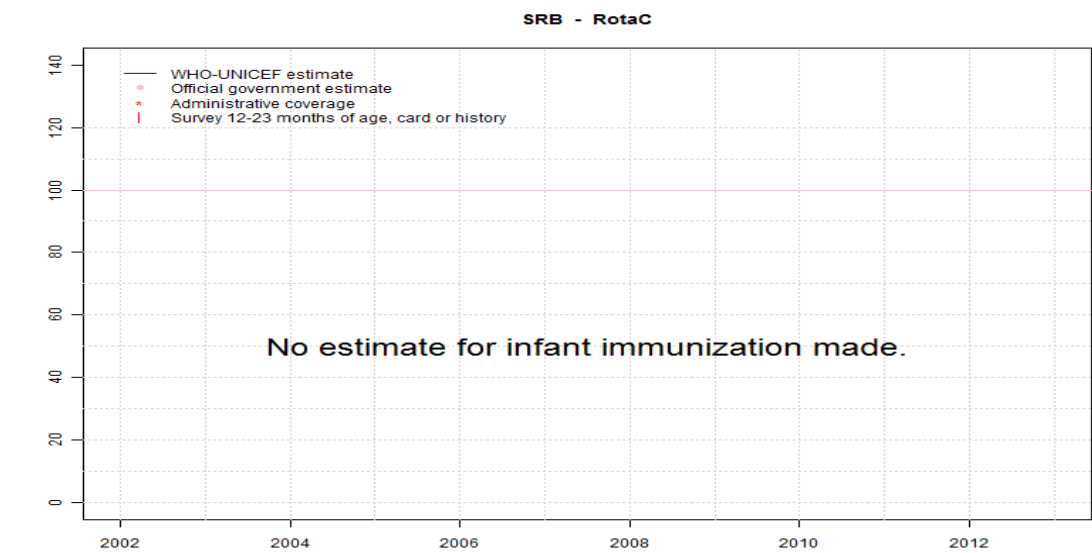
The WHO and UNICEF estimates of national immunization coverage (wuenic) are based on data and information that are of varying, and, in some instances, unknown quality. Beginning with the 2011 revision we describe the grade of confidence (GoC) we have in these estimates. As there is no underlying probability model upon which the estimates are based, we are unable to present classical measures of uncertainty, e.g., confidence intervals. Moreover, we have chosen not to make subjective estimates of plausibility/certainty ranges around the coverage. The GoC reflects the degree of empirical support upon which the estimates are based. It is not a judgment of the quality of data reported by national authorities.

- Estimate is supported by reported data [R+], coverage recalculated with an independent denominator from the World Population Prospects: 2012 revision from the UN Population Division (D+), and at least one supporting survey within 2 years [S+]. While well supported, the estimate still carries a risk of being wrong.
- Estimate is supported by at least one data source; [R+], [S+], or [D+]; and no data source, [R-], [D-], or [S-], challenges the estimate.
- There are no directly supporting data; or data from at least one source; [R-], [D-], [S-]; challenge the estimate.

In all cases these estimates should be used with caution and should be assessed in light of the objective for which they are being used.

## Description:

- 2006: Estimate based on coverage reported by national government. Estimates do not include Kosovo. Estimate challenged by: D-
- 2007: Estimate based on coverage reported by national government. Estimates do not include Kosovo. Estimate challenged by: D-
- 2008: Estimate based on coverage reported by national government. Estimates do not include Kosovo. Estimate challenged by: D-
- 2009: Estimate based on coverage reported by national government. Estimates do not include Kosovo. Estimate challenged by: D-
- 2010: Estimate based on coverage reported by national government. Estimates do not include Kosovo. Estimate challenged by: D-
- 2011: Estimate based on coverage reported by national government. Estimates do not include Kosovo. Estimate challenged by: D-
- 2012: Estimate based on coverage reported by national government. Estimate challenged by: D-
- 2013: Estimate based on coverage reported by national government. No nationally representative household survey within the last 5 years. WHO and UNICEF recommend a high-quality survey to confirm reported levels of coverage. Estimate challenged by: D-



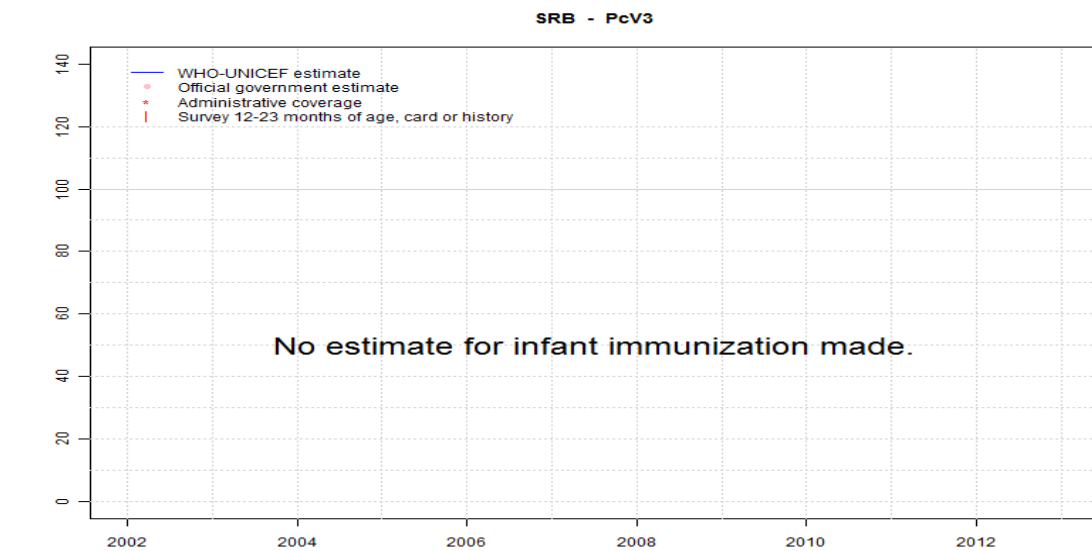
	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Estimate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Estimate GoC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Official	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Administrative	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Survey	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

The WHO and UNICEF estimates of national immunization coverage (wuenic) are based on data and information that are of varying, and, in some instances, unknown quality. Beginning with the 2011 revision we describe the grade of confidence (GoC) we have in these estimates. As there is no underlying probability model upon which the estimates are based, we are unable to present classical measures of uncertainty, e.g., confidence intervals. Moreover, we have chosen not to make subjective estimates of plausibility/certainty ranges around the coverage. The GoC reflects the degree of empirical support upon which the estimates are based. It is not a judgment of the quality of data reported by national authorities.

- Estimate is supported by reported data [R+], coverage recalculated with an independent denominator from the World Population Prospects: 2012 revision from the UN Population Division (D+), and at least one supporting survey within 2 years [S+]. While well supported, the estimate still carries a risk of being wrong.
- Estimate is supported by at least one data source; [R+], [S+], or [D+]; and no data source, [R-], [D-], or [S-], challenges the estimate.
- There are no directly supporting data; or data from at least one source; [R-], [D-], [S-]; challenge the estimate.

In all cases these estimates should be used with caution and should be assessed in light of the objective for which they are being used.

# Serbia - PcV3



	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Estimate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Estimate GoC	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
Administrative	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

The WHO and UNICEF estimates of national immunization coverage (wuenic) are based on data and information that are of varying, and, in some instances, unknown quality. Beginning with the 2011 revision we describe the grade of confidence (GoC) we have in these estimates. As there is no underlying probability model upon which the estimates are based, we are unable to present classical measures of uncertainty, e.g., confidence intervals. Moreover, we have chosen not to make subjective estimates of plausibility/certainty ranges around the coverage. The GoC reflects the degree of empirical support upon which the estimates are based. It is not a judgment of the quality of data reported by national authorities.

- Estimate is supported by reported data [R+], coverage recalculated with an independent denominator from the World Population Prospects: 2012 revision from the UN Population Division (D+), and at least one supporting survey within 2 years [S+]. While well supported, the estimate still carries a risk of being wrong.
- Estimate is supported by at least one data source; [R+], [S+], or [D+]; and no data source, [R-], [D-], or [S-], challenges the estimate.
- There are no directly supporting data; or data from at least one source; [R-], [D-], [S-]; challenge the estimate.

In all cases these estimates should be used with caution and should be assessed in light of the objective for which they are being used.

# Serbia - survey details

## 2004 Serbia Multiple Indicator Cluster Survey 2005

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	C or H <12 months	74	18-29 m	782	71
BCG	Card	44	18-29 m	782	71
BCG	Card or History	74	18-29 m	782	71
BCG	History	30	18-29 m	782	71
DTP1	C or H <12 months	97	18-29 m	782	71
DTP1	Card	73	18-29 m	782	71
DTP1	Card or History	98	18-29 m	782	71
DTP1	History	26	18-29 m	782	71
DTP3	C or H <12 months	90	18-29 m	782	71
DTP3	Card	78	18-29 m	782	71
DTP3	Card or History	96	18-29 m	782	71
DTP3	History	18	18-29 m	782	71
MCV	C or H <12 months	84	18-29 m	782	71
MCV	Card	64	18-29 m	782	71
MCV	Card or History	87	18-29 m	782	71
MCV	History	22	18-29 m	782	71
Pol1	C or H <12 months	95	18-29 m	782	71
Pol1	Card	70	18-29 m	782	71
Pol1	Card or History	97	18-29 m	782	71
Pol1	History	27	18-29 m	782	71
Pol3	C or H <12 months	88	18-29 m	782	71

Pol3	Card	75	18-29 m	782	71
Pol3	Card or History	94	18-29 m	782	71
Pol3	History	19	18-29 m	782	71

## 1999 Federal Republic of Yugoslavia, Multiple Indicator Cluster Survey II 2000 (excluding Kosovo)

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	C or H <12 months	100	12-23 m	341	76
DTP1	C or H <12 months	98	12-23 m	341	76
DTP3	C or H <12 months	95	12-23 m	341	76
Pol1	C or H <12 months	98	12-23 m	341	76
Pol3	C or H <12 months	98	12-23 m	341	76

## 1998 Federal Republic of Yugoslavia, Multiple Indicator Cluster Survey II 2000 (excluding Kosovo)

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
MCV	Card or History	89	24-35 m	341	76

Further information and estimates prior to 2002 are available at:

<http://www.data.unicef.org/child-health/immunization>

[http://www.who.int/immunization/monitoring\\_surveillance/routine/coverage/en/index4.html](http://www.who.int/immunization/monitoring_surveillance/routine/coverage/en/index4.html)