Bosnia and Herzegovina: WHO and UNICEF estimates of immunization coverage: 2014 revision
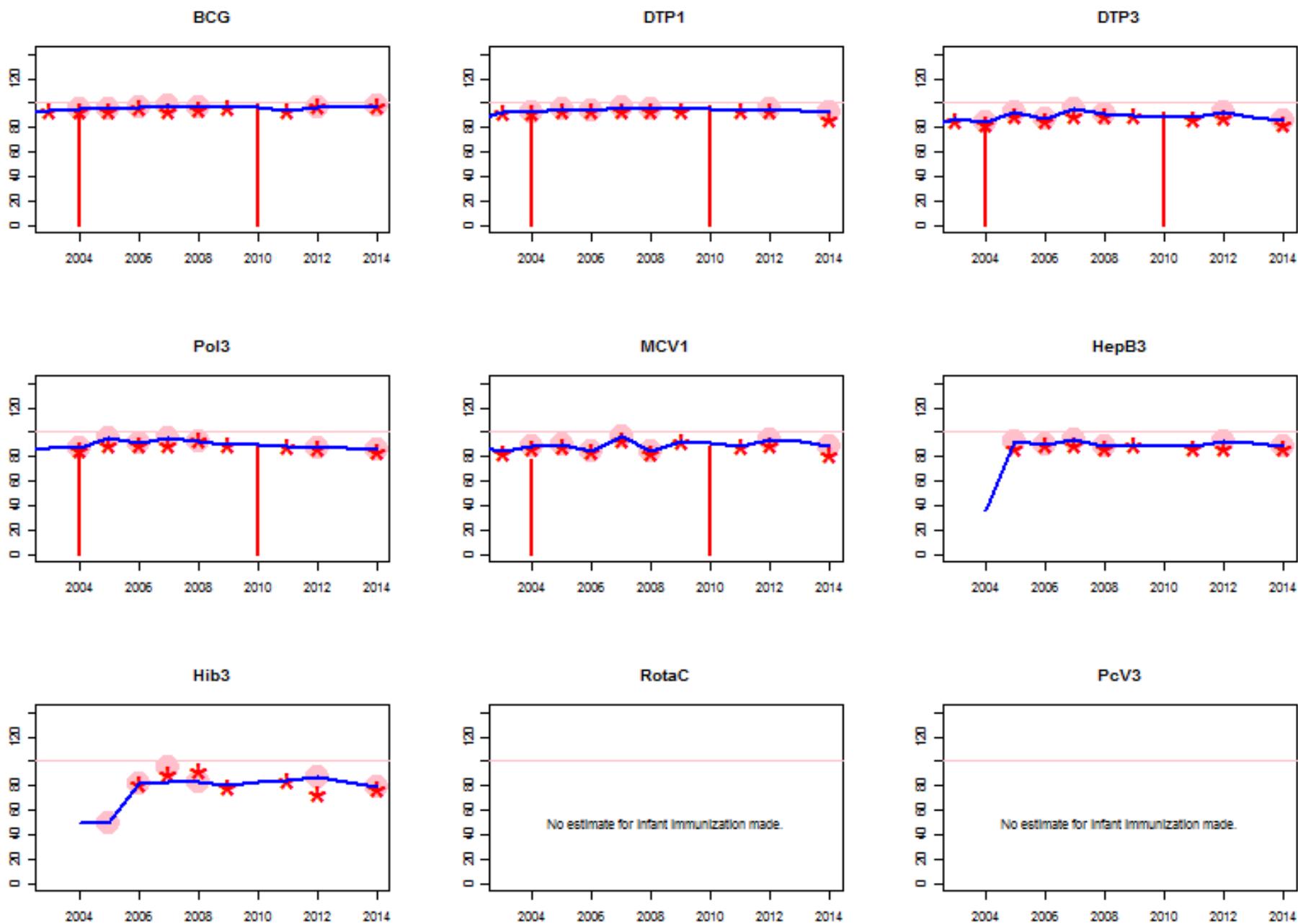
BCG

DTP1

DTP3

Pol3

MCV1

HepB3

Hib3

RotaC

No estimate for infant immunization made.

PcV3

No estimate for infant immunization made.

BIH - BCG

Legend:
- WHO-UNICEF estimate
- Official government estimate
- * Administrative coverage
- | Survey 12-23 months of age, card or history
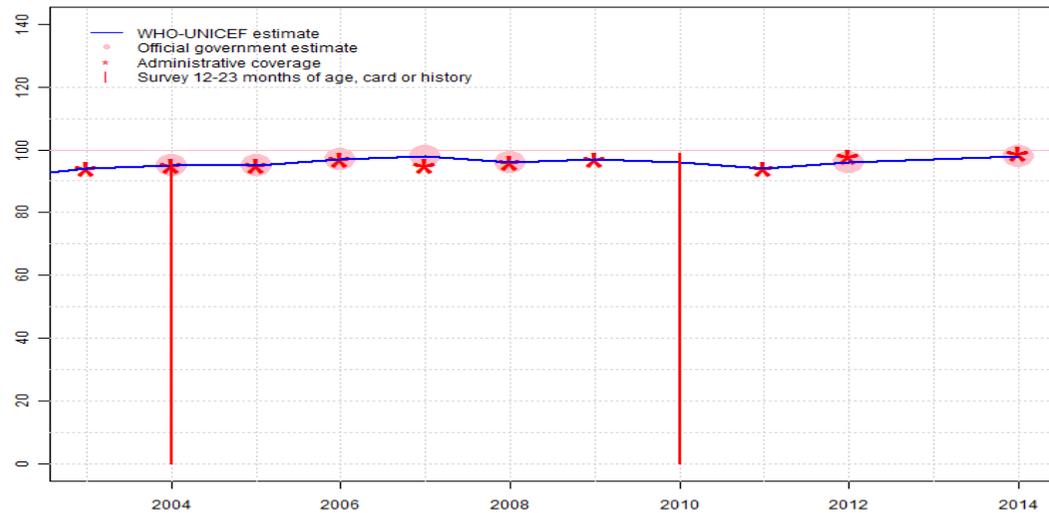
	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Estimate	94	95	95	97	98	96	97	96	94	96	97	98
Estimate GoC	••	•••	•••	•••	••	•	•••	••	•••	•••	•	•
Official	NA	95	95	97	98	96	NA	NA	NA	96	NA	98
Administrative	94	95	95	97	95	96	97	NA	94	98	NA	99
Survey	NA	96	NA	NA	NA	NA	NA	99	NA	NA	NA	NA

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 Popula-
tion 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-];
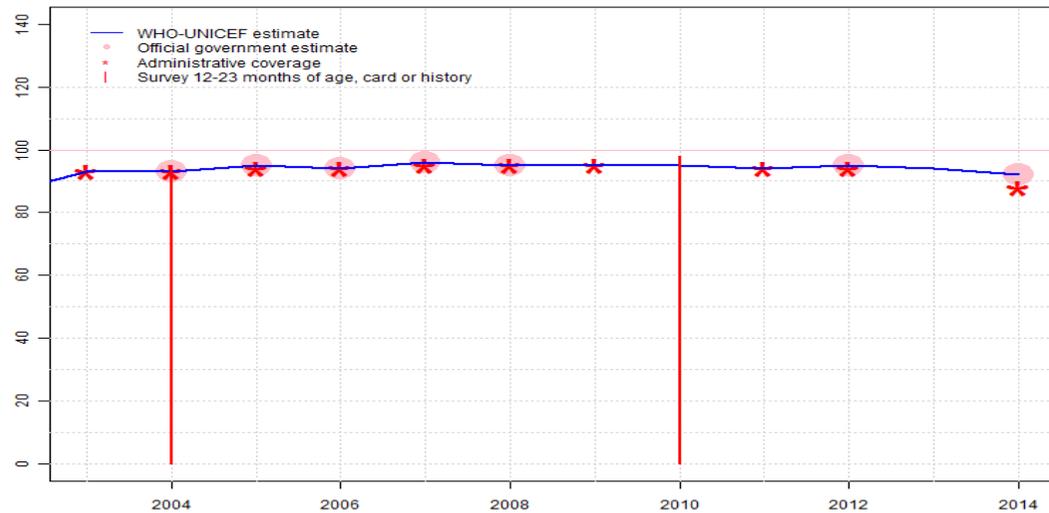challenge the estimate.

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:

2003: Estimate based on reported administrative data. GoC=R+ S+

2004: Estimate based on coverage reported by national government supported by
survey. Survey evidence of 96 percent based on 1 survey(s). GoC=R+ S+
D+

2005: Estimate based on coverage reported by national government. GoC=R+ S+
D+

2006: Estimate based on coverage reported by national government. GoC=R+ S+
D+

2007: Estimate based on coverage reported by national government. GoC=R+
D+

2008: Estimate based on coverage reported by national government. Estimate
challenged by: D-

2009: Estimate based on reported administrative data. GoC=R+ S+ D+

2010: Estimate based on interpolation between data reported by national gov-
ernment supported by survey. Survey evidence of 99 percent based on 1
survey(s). GoC=S+ D+

2011: Estimate based on reported administrative data. GoC=R+ S+ D+

2012: Estimate based on coverage reported by national government. GoC=R+ S+
D+

2013: Estimate based on interpolation between data reported by national govern-
ment. Estimate of 97 percent changed from previous revision value of 96
percent. GoC=No accepted empirical data

2014: Estimate based on coverage reported by national government. Estimate
challenged by: D-

Bosnia and Herzegovina - DTP1

BIH - DTP1

Legend:
- WHO-UNICEF estimate
- Official government estimate
- * Administrative coverage
- | Survey 12-23 months of age, card or history

	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Estimate	93	93	95	94	96	95	95	95	94	95	94	92
Estimate GoC	●●	●●●	●●●	●●●	●●	●	●●●	●●	●●●	●●●	●	●
Official	NA	93	95	94	96	95	NA	NA	NA	95	NA	92
Administrative	93	93	94	94	95	95	95	NA	94	94	NA	88
Survey	NA	94	NA	NA	NA	NA	NA	98	NA	NA	NA	NA

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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 Popula-
   tion 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-];
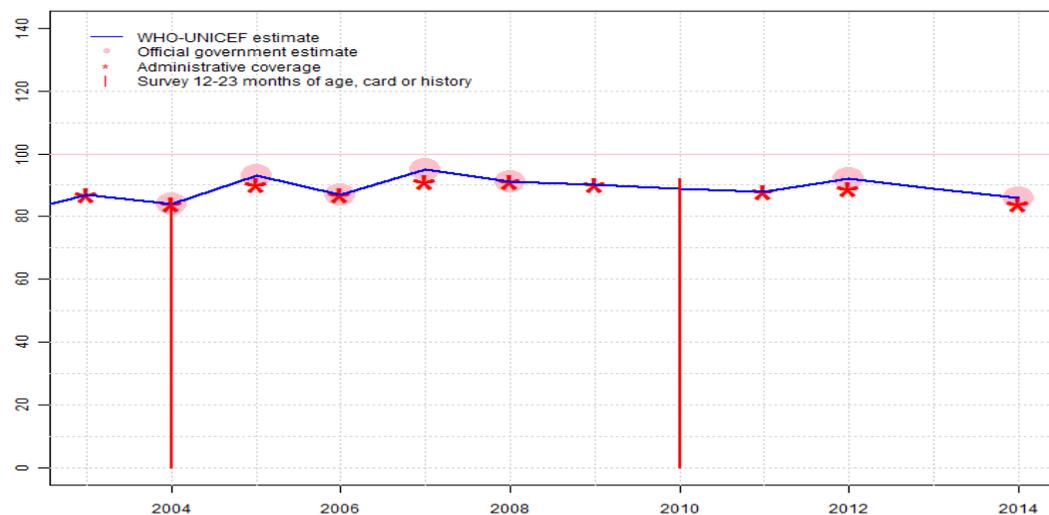   challenge the estimate.

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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.
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Description:

2003: Estimate based on reported administrative data. GoC=R+ S+

2004: Estimate based on coverage reported by national government supported by survey. Survey evidence of 94 percent based on 1 survey(s). GoC=R+ S+ D+

2005: Estimate based on coverage reported by national government. GoC=R+ S+ D+

2006: Estimate based on coverage reported by national government. GoC=R+ S+ D+

2007: Estimate based on coverage reported by national government. GoC=R+ D+

2008: Estimate based on coverage reported by national government. Estimate challenged by: D-

2009: Estimate based on reported administrative data. GoC=R+ S+ D+

2010: Estimate based on interpolation between data reported by national government supported by survey. Survey evidence of 98 percent based on 1 survey(s). GoC=S+ D+

2011: Estimate based on reported administrative data. GoC=R+ S+ D+

2012: Estimate based on coverage reported by national government. GoC=R+ S+ D+

2013: Estimate based on interpolation between data reported by national government. Estimate of 94 percent changed from previous revision value of 95 percent. GoC=No accepted empirical data

2014: Estimate based on coverage reported by national government. Programme reports a six month stock-out of DTP containing vaccine. Estimate challenged by: D-

Bosnia and Herzegovina - DTP3

BIH - DTP3

- —— WHO-UNICEF estimate
- ● Official government estimate
- * Administrative coverage
- | Survey 12-23 months of age, card or history

	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Estimate	87	84	93	87	95	91	90	89	88	92	89	86
Estimate GoC	●●	●●●	●●●	●●●	●●	●	●●●	●●	●●●	●●●	●	●●
Official	NA	84	93	87	95	91	NA	NA	NA	92	NA	86
Administrative	87	84	90	87	91	91	90	NA	88	89	NA	84
Survey	NA	86	NA	NA	NA	NA	NA	92	NA	NA	NA	NA

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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.

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● There are no directly supporting data; or data from at least one source; [R-], [D-], [S-]; challenge the estimate.
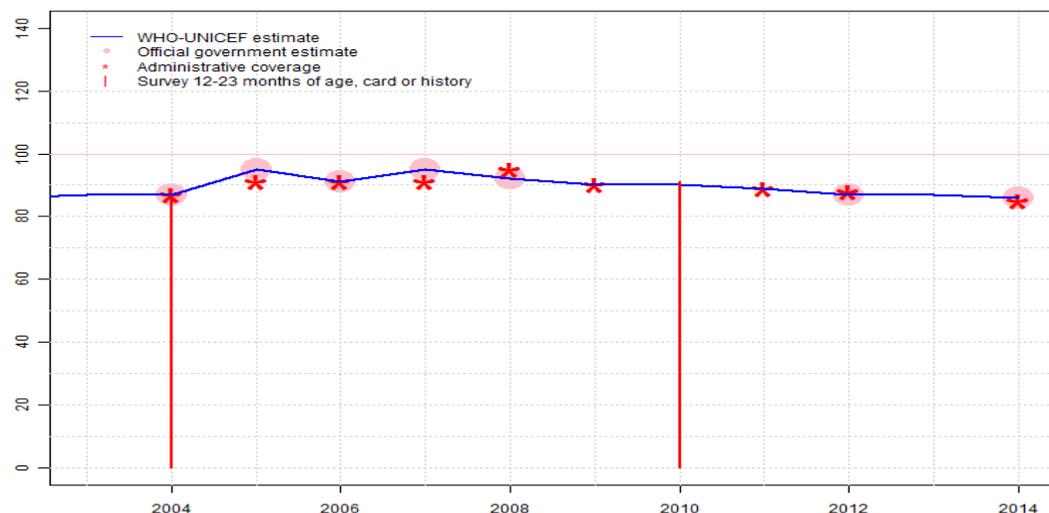
```
In all cases these estimates should be used with caution and should be assessed in light
of the objective for which they are being used.
```

Description:

2003: Estimate based on reported administrative data. GoC=R+ S+

2004: Estimate based on coverage reported by national government supported by survey. Survey evidence of 89 percent based on 1 survey(s). Bosnia and Herzegovina Multiple Indicator Cluster Survey 2006 card or history results of 86 percent modifed for recall bias to 89 percent based on 1st dose card or history coverage of 94 percent, 1st dose card only coverage of 76 percent and 3d dose card only coverage of 72 percent. GoC=R+ S+ D+

2005: Estimate based on coverage reported by national government. GoC=R+ S+ D+

2006: Estimate based on coverage reported by national government. GoC=R+ S+ D+

2007: Estimate based on coverage reported by national government. GoC=R+ D+

2008: Estimate based on coverage reported by national government. Estimate challenged by: D-

2009: Estimate based on reported administrative data. GoC=R+ S+ D+

2010: Estimate based on interpolation between data reported by national government supported by survey. Survey evidence of 94 percent based on 1 survey(s). The Bosnia and Herzegovina Multiple Indicator Cluster Survey 2011–2012 card or history results of 92 percent modifed for recall bias to 94 percent based on 1st dose card or history coverage of 98 percent, 1st dose card only coverage of 89 percent and 3d dose card only coverage of 85 percent. GoC=S+ D+

2011: Estimate based on reported administrative data. GoC=R+ S+ D+

2012: Estimate based on coverage reported by national government. GoC=R+ S+ D+

2013: Estimate based on interpolation between data reported by national government. Estimate of 89 percent changed from previous revision value of 92 percent. GoC=No accepted empirical data

2014: Estimate based on coverage reported by national government. Programme reports a six month stock-out of DTP containing vaccine. GoC=R+ D+

Bosnia and Herzegovina - Pol3

BIH - Pol3

Legend:
- WHO-UNICEF estimate
- Official government estimate
- * Administrative coverage
- | Survey 12-23 months of age, card or history

	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Estimate	87	87	95	91	95	92	90	90	89	87	87	86
Estimate GoC	●●	●●●	●●●	●●●	●●	●	●●●	●●	●●●	●●●	●	●●
Official	NA	87	95	91	95	92	NA	NA	NA	87	NA	86
Administrative	NA	87	91	91	91	95	90	NA	89	88	NA	85
Survey	NA	86	NA	NA	NA	NA	NA	91	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 Popula-
    tion Division (D+), and at least one supporting survey within 2 years [S+]. While well
    supported, the estimate still carries a risk of being wrong.

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    [R-], [D-], or [S-], challenges the estimate.

● There are no directly supporting data; or data from at least one source; [R-], [D-], [S-];
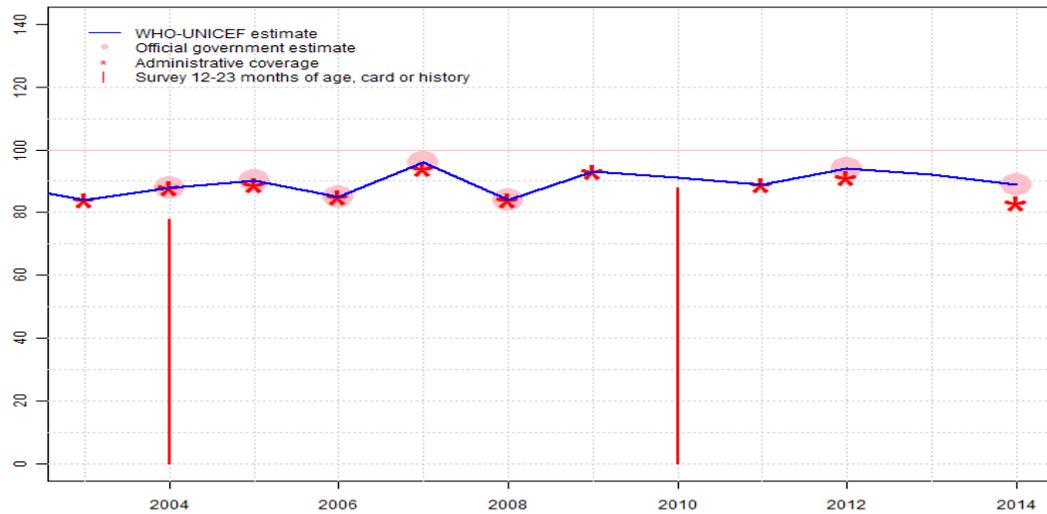   challenge the estimate.

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:

2003: Estimate based on interpolation between coverage reported by national gov-
      ernment. GoC=S+

2004: Estimate based on coverage reported by national government supported by
      survey. Survey evidence of 89 percent based on 1 survey(s). Bosnia and
      Herzegovina Multiple Indicator Cluster Survey 2006 card or history results
      of 86 percent modifed for recall bias to 89 percent based on 1st dose card
      or history coverage of 94 percent, 1st dose card only coverage of 76 percent
      and 3d dose card only coverage of 72 percent. GoC=R+ S+ D+

2005: Estimate based on coverage reported by national government. GoC=R+ S+
      D+

2006: Estimate based on coverage reported by national government. GoC=R+ S+
      D+

2007: Estimate based on coverage reported by national government. GoC=R+
      D+

2008: Estimate based on coverage reported by national government. Estimate
      challenged by: D-

2009: Estimate based on reported administrative data. GoC=R+ S+ D+

2010: Estimate based on interpolation between data reported by national gov-
      ernment supported by survey. Survey evidence of 92 percent based on 1
      survey(s). The Bosnia and Herzegovina Multiple Indicator Cluster Survey
      2011–2012 card or history results of 91 percent modifed for recall bias to
      92 percent based on 1st dose card or history coverage of 96 percent, 1st
      dose card only coverage of 88 percent and 3d dose card only coverage of
      84 percent. GoC=S+ D+

2011: Estimate based on reported administrative data. GoC=R+ S+ D+

2012: Estimate based on coverage reported by national government. GoC=R+ S+
      D+

2013: Estimate based on interpolation between data reported by national govern-
      ment. GoC=No accepted empirical data

2014: Estimate based on coverage reported by national government. Programme
      reports a six month stock-out of IPV and two month stock-out of OPV.
      GoC=R+ D+

Bosnia and Herzegovina - MCV1

BIH - MCV1

- WHO-UNICEF estimate
- Official government estimate
- * Administrative coverage
- | Survey 12-23 months of age, card or history

	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Estimate	84	88	90	85	96	84	93	91	89	94	92	89
Estimate GoC	●	●	●	●	●	●	●●●	●●	●●●	●●●	●	●
Official	NA	88	90	85	96	84	NA	NA	NA	94	NA	89
Administrative	84	88	89	85	94	84	93	NA	89	91	NA	83
Survey	NA	78	NA	NA	NA	NA	NA	88	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 Popula-
tion Division (D+), and at least one supporting survey within 2 years [S+]. While well
supported, the estimate still carries a risk of being wrong.

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[R-], [D-], or [S-], challenges the estimate.

● There are no directly supporting data; or data from at least one source; [R-], [D-], [S-];
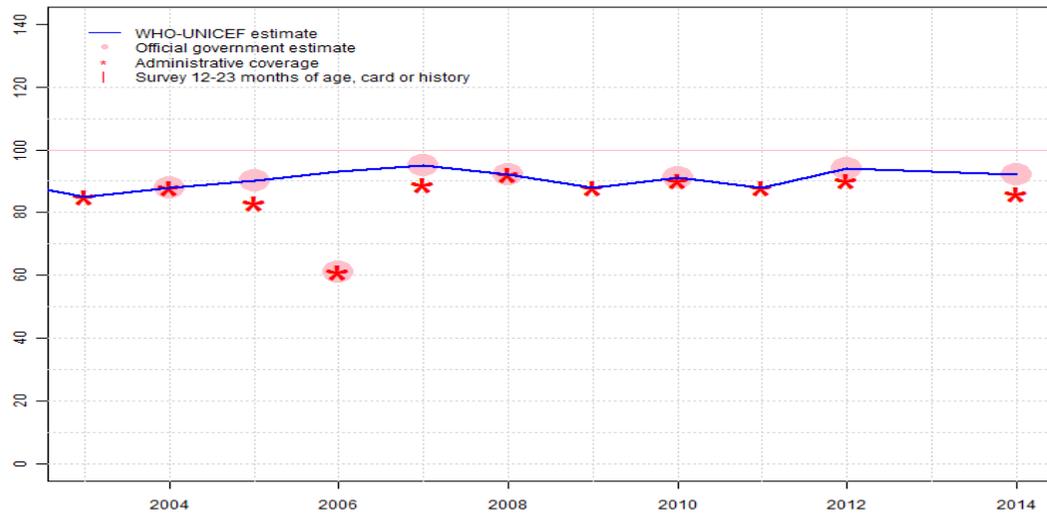challenge the estimate.

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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.
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Description:

2003: Estimate based on reported administrative data. Estimate challenged by: S-

2004: Estimate based on coverage reported by national government supported by survey. Survey evidence of 78 percent based on 1 survey(s). Estimate challenged by: D-S-

2005: Estimate based on coverage reported by national government. Estimate challenged by: S-

2006: Estimate based on coverage reported by national government. Decline result of 4-6 months of vaccine shortage. Estimate challenged by: S-

2007: Estimate based on coverage reported by national government. Increase likely due to catch-up from 2006 vaccine shortage. Estimate challenged by: S-

2008: Estimate based on coverage reported by national government. Reported data includes only 10 of 16 districts. Estimate challenged by: D-

2009: Estimate based on reported administrative data. GoC=R+ S+ D+

2010: Estimate based on interpolation between data reported by national government supported by survey. Survey evidence of 88 percent based on 1 survey(s). GoC=S+ D+

2011: Estimate based on reported administrative data. GoC=R+ S+ D+

2012: Estimate based on coverage reported by national government. GoC=R+ S+ D+

2013: Estimate based on interpolation between data reported by national government. Estimate of 92 percent changed from previous revision value of 94 percent. GoC=No accepted empirical data

2014: Estimate based on coverage reported by national government. Estimate challenged by: D-

Bosnia and Herzegovina - MCV2

BIH - MCV2

Legend:
- WHO-UNICEF estimate
- Official government estimate
- Administrative coverage
- Survey 12-23 months of age, card or history

	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Estimate	85	88	90	93	95	92	88	91	88	94	93	92
Estimate GoC	••	•	••	•	•	•	••	••	••	••	•	•
Official	NA	88	90	61	95	92	NA	91	NA	94	NA	92
Administrative	85	88	83	61	89	92	88	90	88	90	NA	86
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 Popula-
tion Division (D+), and at least one supporting survey within 2 years [S+]. While well
supported, the estimate still carries a risk of being wrong.

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[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.
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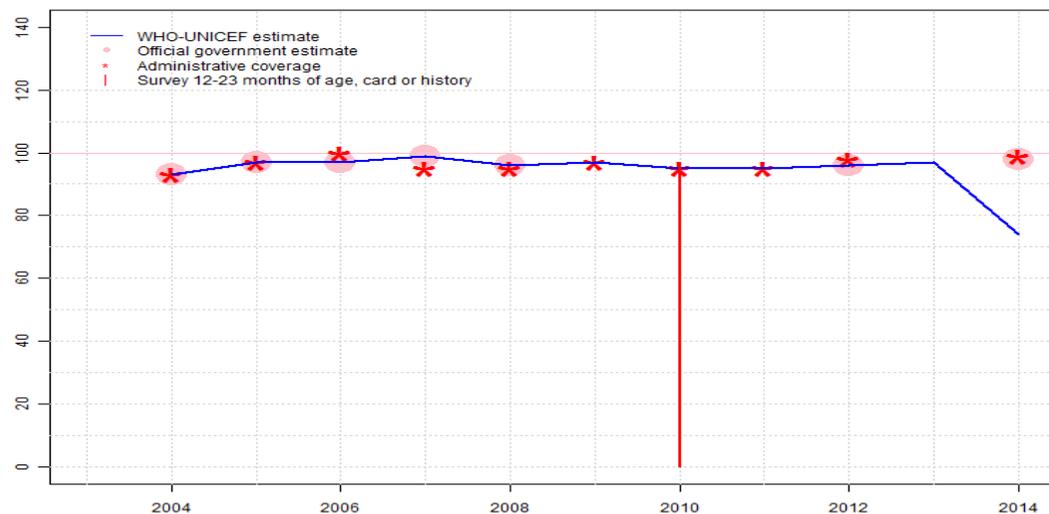
Description:

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

2003: Estimate based on reported administrative estimate. GoC=R+

2004: Estimate based on coverage reported by national government. Estimate
challenged by: D-

2005: Estimate based on coverage reported by national government. GoC=R+
D+

2006: Estimate based on interpolation between reported values. Reported data
excluded. Decline in reported coverage from 90 percent to 61 percent with
increase to 95 percent. 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 reported administrative estimate. GoC=R+ D+

2010: Estimate based on coverage reported by national government. GoC=R+
D+

2011: Estimate based on reported administrative estimate. GoC=R+ D+

2012: Estimate based on coverage reported by national government. GoC=R+
D+

2013: Estimate based on interpolation between reported values. Estimate of 93
percent changed from previous revision value of 94 percent. GoC=No ac-
cepted empirical data

2014: Estimate based on coverage reported by national government. Estimate
challenged by: D-

Bosnia and Herzegovina - HepBB

BIH - HepBB

Legend:
- WHO-UNICEF estimate
- Official government estimate
- * Administrative coverage
- | Survey 12-23 months of age, card or history

	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Estimate	NA	93	97	97	99	96	97	95	95	96	97	74
Estimate GoC	NA	•	••	•	••	•	•••	•••	•••	•••	•	•
Official	NA	93	97	97	99	96	NA	NA	NA	96	NA	98
Administrative	NA	93	97	100	95	95	97	95	95	98	NA	99
Survey	NA	NA	NA	NA	NA	NA	NA	97	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.

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denominator from the World Population Prospects: 2012 revision from the UN Popula-
tion Division (D+), and at least one supporting survey within 2 years [S+]. While well
supported, the estimate still carries a risk of being wrong.

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[R-], [D-], or [S-], challenges the estimate.

● There are no directly supporting data; or data from at least one source; [R-], [D-], [S-];
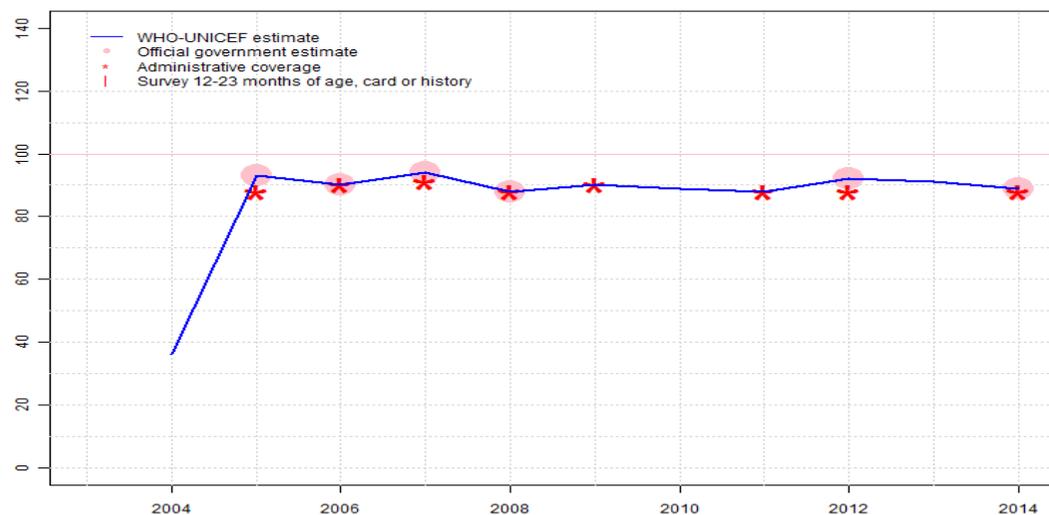challenge the estimate.

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of the objective for which they are being used.

Description:

2004: Estimate based on reported data. HepB birth dose was introduced in 2004.
Estimate challenged by: D-

2005: Estimate based on reported data. GoC=R+ D+

2006: Estimate based on reported data. Estimate challenged by: D-

2007: Estimate based on reported data. GoC=R+ D+

2008: Estimate based on reported data. Estimate challenged by: D-

2009: Estimate based on reported data. GoC=R+ S+ D+

2010: Estimate based on administrative data reported by national government
supported by survey. Survey evidence of 97 percent based on 1 survey(s).
GoC=R+ S+ D+

2011: Estimate based on reported administrative data. GoC=R+ S+ D+

2012: Estimate based on coverage reported by national government. GoC=R+ S+
D+

2013: Estimate based on interpolation between data reported by national govern-
ment. Estimate of 97 percent changed from previous revision value of 96
percent. Estimate challenged by: D-

2014: Programme reports 99 percent coverage among 75 percent of target popu-
lation. Estimate is based on total national target population. Estimate
challenged by: D-R-

Bosnia and Herzegovina - HepB3

BIH - HepB3

Legend:
- WHO-UNICEF estimate
- Official government estimate
- * Administrative coverage
- | Survey 12-23 months of age, card or history

	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Estimate	NA	36	93	90	94	88	90	89	88	92	91	89
Estimate GoC	NA	••	••	••	••	•	••	••	••	••	•	••
Official	NA	NA	93	90	94	88	NA	NA	NA	92	NA	89
Administrative	NA	NA	88	90	91	88	90	NA	88	88	NA	88
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
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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
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tion Division (D+), and at least one supporting survey within 2 years [S+]. While well
supported, the estimate still carries a risk of being wrong.

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[R-], [D-], or [S-], challenges the estimate.

● There are no directly supporting data; or data from at least one source; [R-], [D-], [S-];
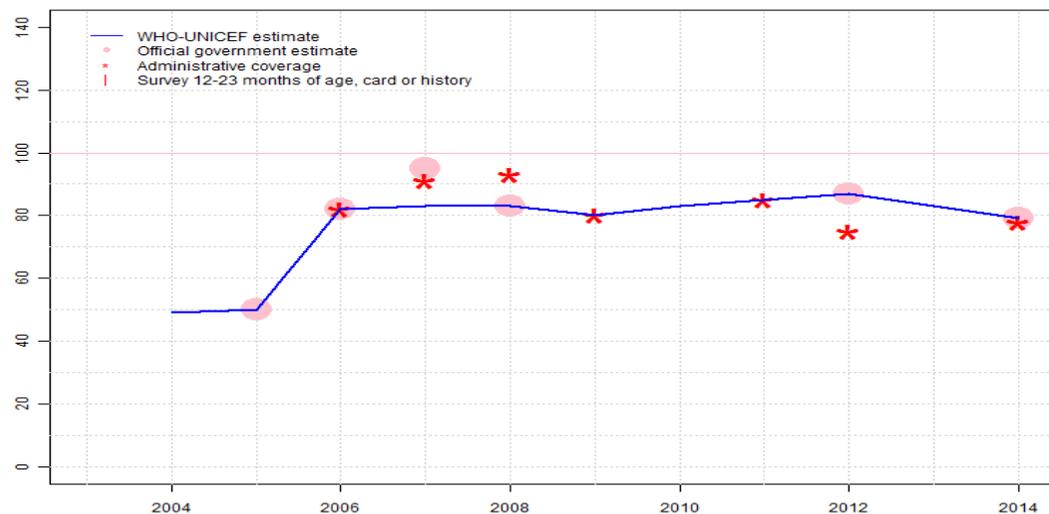challenge the estimate.

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: HepB vaccine introduced in 2003. 81 percent coverage reached in 45 percent
of the country. HepB vaccine introduced in 2001. Reporting started in
2004. Vaccine presentation is HepB . GoC=D+

2005: Estimate based on coverage reported by national government. GoC=R+
D+

2006: Estimate based on coverage reported by national government. GoC=R+
D+

2007: Estimate based on coverage reported by national government. GoC=R+
D+

2008: Estimate based on coverage reported by national government. Estimate
challenged by: D-

2009: Estimate based on reported administrative estimate. GoC=R+ D+

2010: Estimate based on interpolation between reported values. GoC=D+

2011: Estimate based on reported administrative estimate. GoC=R+ D+

2012: Estimate based on coverage reported by national government. GoC=R+
D+

2013: Estimate based on interpolation between reported values. Estimate of 91
percent changed from previous revision value of 92 percent. GoC=No ac-
cepted empirical data

2014: Estimate based on coverage reported by national government. Programme
reports a two month stock-out of HepB containing vaccine. GoC=R+ D+

Bosnia and Herzegovina - Hib3

BIH - Hib3

Description:

2004: Hib vaccine introduced in 2003. 79 percent coverage reached in 67 percent of the country. Hib vaccine partially introduced in 2003, nationally in 2008, reporting started in 2004. Vaccine presentation is monovalent Hib. GoC=D+

2005: Estimate based on coverage reported by national government. GoC=R+ D+

2006: Estimate based on coverage reported by national government. Estimate challenged by: D-

2007: Estimate based on interpolation between reported values. Reported data excluded. Unexplained increase from 82 percent to 95 percent with decrease 83 percent. Estimate challenged by: D-

2008: Estimate based on coverage reported by national government. Estimate challenged by: D-

2009: Estimate based on reported administrative estimate. GoC=R+ D+

2010: Estimate based on interpolation between reported values. GoC=D+

2011: Estimate based on reported administrative estimate. GoC=R+ D+

2012: Estimate based on coverage reported by national government. Estimate challenged by: D-

2013: Estimate based on interpolation between reported values. Estimate of 83 percent changed from previous revision value of 87 percent. GoC=No accepted empirical data

2014: Estimate based on coverage reported by national government. Programme reports a six month stock-out of Hib containing vaccine. GoC=R+ D+

	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Estimate	NA	49	50	82	83	83	80	83	85	87	83	79
Estimate GoC	NA	●●	●●	●	●	●	●●	●●	●●	●	●	●●
Official	NA	NA	50	82	95	83	NA	NA	NA	87	NA	79
Administrative	NA	NA	NA	82	91	93	80	NA	85	75	NA	78
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.
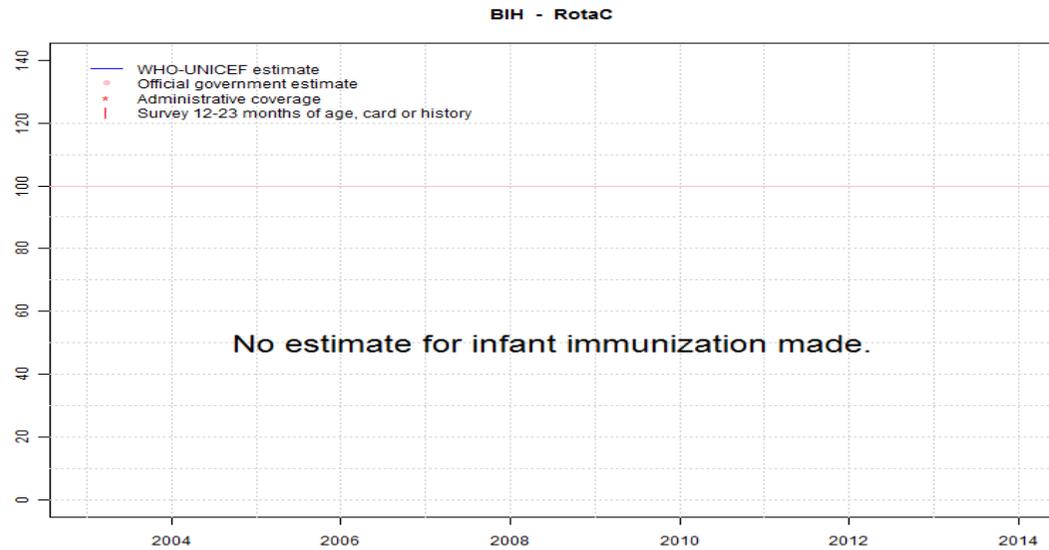
●●● Estimate is supported by reported data [R+], coverage recalculated with an independent denominator from the World Population Prospects: 2012 revision from the UN Population Division (D+), and at least one supporting survey within 2 years [S+]. While well supported, the estimate still carries a risk 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.

Bosnia and Herzegovina - RotaC

BIH - RotaC

- WHO-UNICEF estimate
- Official government estimate
- * Administrative coverage
- | Survey 12-23 months of age, card or history

No estimate for infant immunization made.

	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
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 Popula-
    tion 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.

Bosnia and Herzegovina - PcV3

BIH - PcV3

Legend:
- WHO-UNICEF estimate
- Official government estimate
- Administrative coverage
- Survey 12-23 months of age, card or history

No estimate for infant immunization made.

	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
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 Popula-
tion Division (D+), and at least one supporting survey within 2 years [S+]. While well
supported, the estimate still carries a risk of being wrong.

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[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.

2010 The Bosnia and Herzegovina Multiple Indicator Cluster Survey 2011–2012

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	C or H <12 months	98	18-29 m	-	91
BCG	Card	89	18-29 m	-	91
BCG	Card or History	99	18-29 m	463	91
BCG	History	10	18-29 m	-	91
DTP1	C or H <12 months	95	18-29 m	-	91
DTP1	Card	89	18-29 m	-	91
DTP1	Card or History	98	18-29 m	463	91
DTP1	History	9	18-29 m	-	91
DTP3	C or H <12 months	86	18-29 m	-	91
DTP3	Card	85	18-29 m	-	91
DTP3	Card or History	92	18-29 m	463	91
DTP3	History	7	18-29 m	-	91
HepBB	C or H <12 months	95	18-29 m	-	91
HepBB	Card	91	18-29 m	-	91
HepBB	Card or History	97	18-29 m	463	91
HepBB	History	6	18-29 m	-	91
MCV1	C or H <18 months	80	18-29 m	-	91
MCV1	Card	80	18-29 m	-	91
MCV1	Card or History	88	18-29 m	463	91
MCV1	History	8	18-29 m	-	91
Pol1	C or H <12 months	95	18-29 m	-	91
Pol1	Card	88	18-29 m	-	91
Pol1	Card or History	96	18-29 m	463	91
Pol1	History	8	18-29 m	-	91
Pol3	C or H <12 months	85	18-29 m	-	91
Pol3	Card	84	18-29 m	-	91
Pol3	Card or History	91	18-29 m	463	91
Pol3	History	8	18-29 m	-	91

2004 Bosnia and Herzegovina Multiple Indicator Cluster Survey 2006

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	C or H <12 months	96	18-29 m	636	77
BCG	Card	74	18-29 m	636	77
BCG	Card or History	96	18-29 m	636	77
BCG	History	23	18-29 m	636	77
DTP1	C or H <12 months	93	18-29 m	636	77
DTP1	Card	76	18-29 m	636	77
DTP1	Card or History	94	18-29 m	636	77
DTP1	History	18	18-29 m	636	77
DTP3	C or H <12 months	78	18-29 m	636	77
DTP3	Card	72	18-29 m	636	77
DTP3	Card or History	86	18-29 m	636	77
DTP3	History	14	18-29 m	636	77
MCV1	C or H <12 months	75	18-29 m	636	77
MCV1	Card	65	18-29 m	636	77
MCV1	Card or History	78	18-29 m	636	77
MCV1	History	13	18-29 m	636	77
Pol1	C or H <12 months	94	18-29 m	636	77
Pol1	Card	76	18-29 m	636	77
Pol1	Card or History	94	18-29 m	636	77
Pol1	History	19	18-29 m	636	77
Pol3	C or H <12 months	79	18-29 m	636	77
Pol3	Card	72	18-29 m	636	77
Pol3	Card or History	86	18-29 m	636	77
Pol3	History	14	18-29 m	636	77

1999 Household Survey of Women and Children, Bosnia and Herzegovina 2000 (MICS), 2001, Draft

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	C or H <12 months	95	12-23 m	480	79
BCG	Card	78	12-23 m	480	79
BCG	Card or History	95	12-23 m	480	79
BCG	History	17	12-23 m	480	79
DTP1	C or H <12 months	91	12-23 m	480	79
DTP1	Card	78	12-23 m	480	79
DTP1	Card or History	92	12-23 m	480	79
DTP1	History	15	12-23 m	480	79
DTP3	C or H <12 months	85	12-23 m	480	79
DTP3	Card	75	12-23 m	480	79
DTP3	Card or History	88	12-23 m	480	79

Bosnia and Herzegovina - survey details

DTP3	History	12	12-23 m	480	79
MCV1	C or H <12 months	25	12-23 m	480	79
MCV1	Card	54	12-23 m	480	79
MCV1	Card or History	64	12-23 m	480	79
MCV1	History	11	12-23 m	480	79
Pol1	C or H <12 months	93	12-23 m	480	79
Pol1	Card	78	12-23 m	480	79

Pol1	Card or History	94	12-23 m	480	79
Pol1	History	16	12-23 m	480	79
Pol3	C or H <12 months	82	12-23 m	-	79
Pol3	Card	76	12-23 m	480	79
Pol3	Card or History	85	12-23 m	480	79
Pol3	History	10	12-23 m	480	79

Further information and estimates for previous years are available at:
http://www.data.unicef.org/child-health/immunization
http://www.who.int/immunization/monitoring_surveillance/routine/coverage/en/index4.html