

July 2, 2024; page 1

WHO and UNICEF estimates of national immunization coverage - next revision available July  $15,\,2025$ 

BACKGROUND NOTE: Each year WHO and UNICEF jointly review reports submitted by Member States regarding national immunization coverage, finalized survey reports as well as data from published and grey literature. Based on these data, with due consideration to potential biases and the views of local experts, WHO and UNICEF attempt to distinguish between situations where available empirical data accurately reflect immunization system performance and those where the data are likely compromised and present a misleading view of coverage.

WHO and UNICEF estimates are country-specific; that is to say, each country's data are reviewed individually, and data are not borrowed from other countries in the absence of data. Estimates are not based on ad hoc adjustments to reported data; in some instances empirical data are available from a single source, usually the nationally reported coverage data. In cases where no data are available for a given country/vaccine/year combination, data are considered from earlier and later years and interpolated to estimate coverage for the missing year(s). In cases where data sources are mixed and show large variation, an attempt is made to identify the most likely estimate with consideration of the possible biases in available data. For methods see:

- \*Burton et al. 2009. Bull World Health Organ.
- \*Burton et al. 2012. PLoS One.
- \*Danovaro-Holliday et al. 2021. Gates Open Res.

#### DATA SOURCES.

- ADMINISTRATIVE coverage: Reported by national authorities and based on aggregated administrative reports from health service providers on the number of vaccinations administered during a given period (numerator data) and reported target population data (denominator data). May be biased by inaccurate numerator and/or denominator data.
- OFFICIAL coverage: Estimated coverage reported by national authorities that reflects their assessment of the most likely coverage based on any combination of administrative coverage, survey-based estimates or other data sources or adjustments. Approaches to determine OFFICIAL coverage may differ across countries.
- SURVEY coverage: Based on estimated coverage from population-based household surveys among children aged 12-23 or 24-35 months following a review of survey methods and results.

  Information is based on the combination of vaccination history from documented evidence or caregiver recall. Survey results are considered for the appropriate birth cohort based on data collection period.

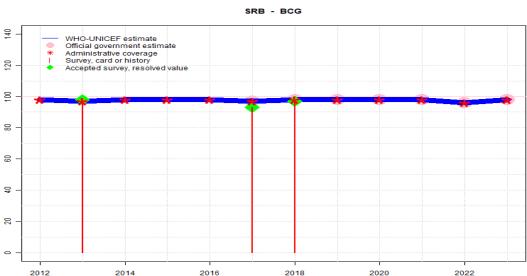
#### ABBREVIATIONS

- BCG: percentage of births who received one dose of Bacillus Calmette Guerin vaccine.
- DTP1 / DTP3: percentage of surviving infants who received the 1st / 3rd dose, respectively, of diphtheria and tetanus toxoid with pertussis containing vaccine.
- Pol3: percentage of surviving infants who received the 3rd dose of polio containing vaccine. May be either oral or inactivated polio vaccine.
- IPV1: percentage of surviving infants who received at least one dose of inactivated polio vaccine. In countries utilizing an immunization schedule recommending either (i) a primary series of three doses of oral polio vaccine (OPV) plus at least one dose of IPV where OPV is included in routine immunization and/or campaign or (ii) a sequential schedule of IPV followed by OPV, WHO and UNICEF estimates for IPV1 reflect coverage with at least one routine dose of IPV among infants <1 year of age. For countries utilizing IPV containing vaccine only, i.e., no recommended dose of OPV, WHO and UNICEF estimate for IPV1 corresponds to coverage for the 1st dose of IPV.

Production of IPV coverage estimates, which begins in 2015, results in no change of the estimated coverage levels for the 3rd dose of polio (Pol3). For countries recommending routine immunization with a primary series of three doses of IPV alone, WHO and UNICEF estimated Pol3 coverage is equivalent to estimated coverage with three doses of IPV. For countries with a sequential schedule, estimated Pol3 coverage is based on that for the 3rd dose of polio vaccine regardless of vaccine type.

- **IPV2:** percentage of surviving infants who received a 2nd dose of inactivated polio vaccine. IPV2 coverage estimates produced for OPV using countries.
- MCV1: percentage of surviving infants who received the 1st dose of measles containing vaccine. In countries where the national schedule recommends the 1st dose of MCV at 12 months or later based on the epidemiology of disease in the country, coverage estimates reflect the percentage of children who received the 1st dose of MCV as recommended.
- MCV2: percentage of children who received the 2nd dose of measles containing vaccine according to the nationally recommended schedule.
- RCV1: percentage of surviving infants who received the 1st dose of rubella containing vaccine. Co verage estimates are based on WHO and UNICEF estimates of coverage for the dose of measles containing vaccine that corresponds to the first measles-rubella combination vaccine. Nationally reported coverage of RCV is not taken into consideration nor are the data represented in the accompanying graph and data table.
- HepBB: percentage of births which received a dose of hepatitis B vaccine within 24 hours of delivery. Estimates of hepatitis B birth dose coverage are produced only for countries with a universal birth dose policy. Estimates are not produced for countries that recommend a birth dose to infants born to HepB virus-infected mothers only or where there is insufficient information to determine whether vaccination is within 24 hours of birth.
- **HepB3:** percentage of surviving infants who received the 3rd dose of hepatitis B containing vaccine following the birth dose.
- **Hib3:** percentage of surviving infants who received the 3rd dose of Haemophilus influenzae type b containing vaccine.
- **RotaC:** percentage of surviving infants who received the final recommended dose of rotavirus vaccine, which can be either the 2nd or the 3rd dose depending on the vaccine.
- PcV3: percentage of surviving infants who received the 3rd dose of pneumococcal conjugate vaccine. In countries where the national schedule recommends two doses during infancy and a booster dose at 12 months or later based on the epidemiology of disease in the country, coverage estimates may reflect the percentage of surviving infants who received two doses of PcV prior to the 1st birthday.
- YFV: percentage of surviving infants who received one dose of yellow fever vaccine in countries where YFV is part of the national immunization schedule for children or is recommended in at risk areas; coverage estimates are annualized for the entire cohort of surviving infants.
- MengA: percentage of children who received one dose of meningococcal A conjugate vaccine. MengA coverage estimates produced for countries in the meningitis belt of sub-Saharan Africa.

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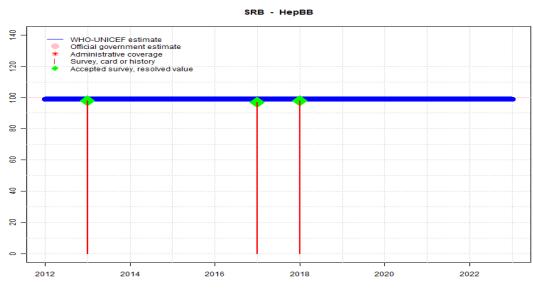
	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Estimate	98	97	98	98	98	97	98	98	98	98	96	98
Estimate GoC	•••	•••	•••	•••	•••	•••	•••	•••	•••	••	••	••
Official	NA	NA	NA	NA	NA	97	98	98	98	98	96	98
Administrative	98	97	98	98	98	97	98	98	98	98	96	98
Survey	NA	98	NA	NA	NA	93	97	NA	NA	NA	NA	NA

- ••• Estimate is supported by reported data [R+], coverage recalculated with an independent denominator from the World Population Prospects: 2022 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.

- 2023: Estimate informed by reported data. No nationally representative household survey for the most recent 5 annual birth cohorts. WHO and UNICEF recommend a high quality survey to verify reported levels of coverage. GoC=R+ D+
- 2022: Estimate informed by reported data. GoC=R+ D+
- 2021: Estimate informed by reported data. GoC=R+ D+
- 2020: Estimate informed by reported data. GoC=R+ S+ D+
- 2019: Estimate informed by reported data. GoC=R+ S+ D+
- 2018: Estimate informed by reported data supported by survey. Survey evidence of 97 percent based on 1 survey(s). GoC=R+ S+ D+
- 2017: Estimate informed by reported data supported by survey. Survey evidence of 93 percent based on 1 survey(s). GoC=R+ S+ D+
- 2016: Estimate informed by reported administrative data. GoC=R+ S+ D+
- 2015: Estimate informed by reported administrative data. GoC=R+S+D+
- 2014: Estimate informed by reported administrative data. GoC=R+ S+ D+
- 2013: Estimate informed by reported administrative data supported by survey. Survey evidence of 98 percent based on 1 survey(s). GoC=R+ S+ D+
- 2012: Estimate informed by reported administrative data. GoC=R+S+D+

## Serbia - HepBB



	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Estimate	99	99	99	99	99	99	99	99	99	99	99	99
Estimate GoC	••	••	••	••	••	••	••	••	••	•	•	•
Official	NA											
Administrative	NA											
Survey	NA	98	NA	NA	NA	97	98	NA	NA	NA	NA	NA

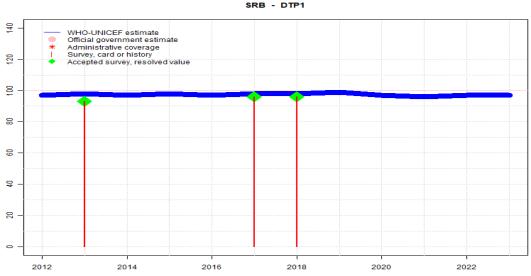
The WHO and UNICEF estimates of national immunization coverage (wuenic) are based on data and information that are of varying, and, in some instances, unknown quality. Beginning with the 2011 revision we describe the grade of confidence (GoC) we have in these estimates. As there is no underlying probability 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: 2022 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.

- 2023: Estimate based on extrapolation from data reported by national government. No nationally representative household survey for the most recent 5 annual birth cohorts. WHO and UNICEF recommend a high quality survey to verify reported levels of coverage. GoC=No accepted empirical data
- 2022: Estimate based on extrapolation from data reported by national government. GoC=No accepted empirical data
- 2021: Estimate based on extrapolation from data reported by national government. GoC=No accepted empirical data
- 2020: Estimate based on extrapolation from data reported by national government. GoC=S+
- 2019: Estimate based on extrapolation from data reported by national government. GoC=S+
- 2018: Estimate based on extrapolation from data reported by national government supported by survey. Survey evidence of 98 percent based on 1 survey(s). GoC=S+
- 2017: Estimate based on extrapolation from data reported by national government supported by survey. Survey evidence of 97 percent based on 1 survey(s). GoC=S+
- 2016: . GoC=S+
- 2015: GoC=S+
- 2014: . GoC=S+
- 2013: Estimate based on extrapolation from data reported by national government supported by survey. Survey evidence of 98 percent based on 1 survey(s). GoC=S+
- 2012: Estimate based on extrapolation from data reported by national government. GoC=S+

### Serbia - DTP1



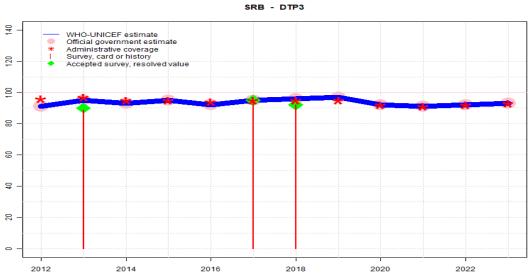
	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Estimate	97	98	97	98	97	98	98	99	97	96	97	97
Estimate GoC	••	••	••	••	••	••	••	••	••	•	•	•
Official	NA											
Administrative	NA											
Survey	NA	93	NA	NA	NA	96	96	NA	NA	NA	NA	NA

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: 2022 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.

- 2023: DTP1 coverage estimated based on DTP3 coverage of 93. No nationally representative household survey for the most recent 5 annual birth cohorts. WHO and UNICEF recommend a high quality survey to verify reported levels of coverage. GoC=No accepted empirical data
- 2022: DTP1 coverage estimated based on DTP3 coverage of 92. GoC=No accepted empirical data
- 2021: Estimate is assigned for consistency with neighbouring years. GoC=No accepted empirical data
- 2020: DTP1 coverage estimated based on DTP3 coverage of 92. GoC=S+
- 2019: DTP1 coverage estimated based on DTP3 coverage of 97. GoC=S+
- 2018: DTP1 coverage estimated based on DTP3 coverage of 96. GoC=S+
- 2017: DTP1 coverage estimated based on DTP3 coverage of 95. GoC=S+
- 2016: Estimate based on DTP3 coverage of 92. GoC=S+
- 2015: Estimate based on DTP3 coverage of 95. GoC=S+
- 2014: Estimate based on DTP3 coverage of 93. GoC=S+
- 2013: DTP1 coverage estimated based on DTP3 coverage of 95. GoC=S+
- 2012: Estimate based on DTP3 coverage of 91. GoC=S+



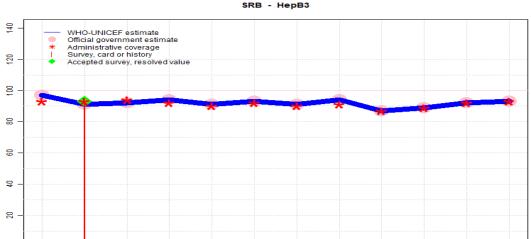
	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Estimate	91	95	93	95	92	95	96	97	92	91	92	93
Estimate GoC	•••	•••	•••	•••	•••	•••	•••	•••	•••	••	••	••
Official	91	95	93	95	92	95	96	97	92	91	92	93
Administrative	96	97	95	95	94	95	95	95	92	91	92	93
Survey	NA	89	NA	NA	NA	95	92	NA	NA	NA	NA	NA

- ••• Estimate is supported by reported data [R+], coverage recalculated with an independent denominator from the World Population Prospects: 2022 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.

- 2023: Estimate informed by reported data. No nationally representative household survey for the most recent 5 annual birth cohorts. WHO and UNICEF recommend a high quality survey to verify reported levels of coverage. GoC=R+ D+
- 2022: Estimate informed by reported data. GoC=R+ D+
- 2021: Estimate informed by reported data. GoC=R+ D+
- 2020: Estimate informed by reported data. GoC=R+S+D+
- 2019: Estimate informed by reported data. GoC=R+S+D+
- 2018: Estimate informed by reported data supported by survey. Survey evidence of 92 percent based on 1 survey(s). GoC=R+ S+ D+
- 2017: Estimate informed by reported data supported by survey. Survey evidence of 95 percent based on 1 survey(s). GoC=R+S+D+
- 2016: Estimate informed by reported data. GoC=R+S+D+
- 2015: Estimate informed by reported data. GoC=R+S+D+
- 2014: Estimate informed by reported data. GoC=R+ S+ D+
- 2013: Estimate informed by reported data supported by survey. Survey evidence of 90 percent based on 1 survey(s). Serbia Multiple Indicator Cluster Survey 2014 card or history results of 89 percent modified for recall bias to 90 percent based on 1st dose card or history coverage of 93 percent, 1st dose card only coverage of 87 percent and 3rd dose card only coverage of 84 percent. GoC=R+ S+ D+
- 2012: Estimate informed by reported data. GoC=R+ S+ D+

## Serbia - HepB3



2018

2020

2022

	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Estimate	97	91	92	94	91	93	91	94	87	89	92	93
Estimate GoC	•••	•••	•••	•••	••	••	••	••	••	••	••	••
Official	97	91	92	94	91	93	91	94	87	89	92	93
Administrative	93	93	94	92	90	92	90	91	87	89	92	93
Survey	NA	93	NA									

2016

2014

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: 2022 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.

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### Description:

- 2023: Estimate informed by reported data. No nationally representative household survey for the most recent 5 annual birth cohorts. WHO and UNICEF recommend a high quality survey to verify reported levels of coverage. GoC=R+ D+
- 2022: Estimate informed by reported data. GoC=R+ D+
- 2021: Estimate informed by reported data. GoC=R+ D+
- 2020: Estimate informed by reported data. GoC=R+ D+
- 2019: Estimate informed by reported data. GoC=R+ D+
- 2018: Estimate informed by reported data. GoC=R+ D+
- 2017: Estimate informed by reported data. GoC=R+ D+
- 2016: Estimate informed by reported data. GoC=R+ D+
- 2015: Estimate informed by reported data. GoC=R+ S+ D+
- 2014: Estimate informed by reported data. GoC=R+ S+ D+
- 2013: Estimate informed by reported data supported by survey. Survey evidence of 93 percent based on 1 survey(s). GoC=R+S+D+
- 2012: Estimate informed by reported data. GoC=R+S+D+

2012



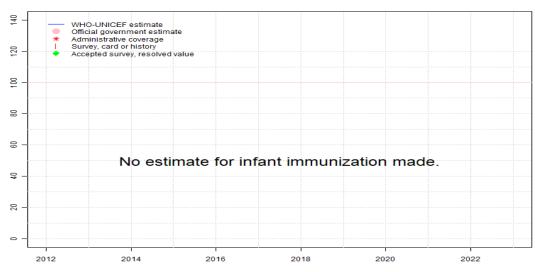
	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Estimate	90	92	94	95	92	95	96	97	92	91	92	93
Estimate GoC	•••	•••	•	•	•••	•••	•••	•••	•••	••	••	••
Official	90	92	94	95	92	95	96	97	92	91	92	93
Administrative	91	95	95	94	94	95	95	95	92	91	92	93
Survey	NA	83	NA	NA	NA	95	91	NA	NA	NA	NA	NA

- ••• Estimate is supported by reported data [R+], coverage recalculated with an independent denominator from the World Population Prospects: 2022 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.

- 2023: Estimate informed by reported data. No nationally representative household survey for the most recent 5 annual birth cohorts. WHO and UNICEF recommend a high quality survey to verify reported levels of coverage. GoC=R+ D+
- 2022: Estimate informed by reported data. GoC=R+ D+
- 2021: Estimate informed by reported data. GoC=R+ D+
- 2020: Estimate informed by reported data. GoC=R+ S+ D+
- 2019: Estimate informed by reported data. GoC=R+S+D+
- 2018: Estimate informed by reported data supported by survey. Survey evidence of 92 percent based on 1 survey(s). Serbia Multiple Indicator Cluster Survey 2019 card or history results of 91 percent modified for recall bias to 92 percent based on 1st dose card or history coverage of 96 percent, 1st dose card only coverage of 80 percent and 3rd dose card only coverage of 77 percent. GoC=R+ S+ D+
- 2017: Estimate informed by reported data supported by survey. Survey evidence of 95 percent based on 1 survey(s). GoC=R+S+D+
- 2016: Estimate informed by reported data. GoC=R+S+D+
- 2015: Estimate informed by reported data. Estimate challenged by: S-
- 2014: Estimate informed by reported data. Estimate challenged by: S-
- 2013: Estimate informed by reported data supported by survey. Survey evidence of 83 percent based on 1 survey(s). GoC=R+S+D+
- 2012: Estimate informed by reported data. GoC=R+ S+ D+

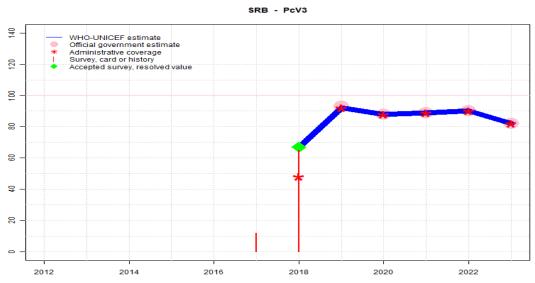




	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Estimate	NA											
Estimate GoC	NA											
Official	NA											
Administrative	NA											
Survey	NA											

- ••• Estimate is supported by reported data [R+], coverage recalculated with an independent denominator from the World Population Prospects: 2022 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.

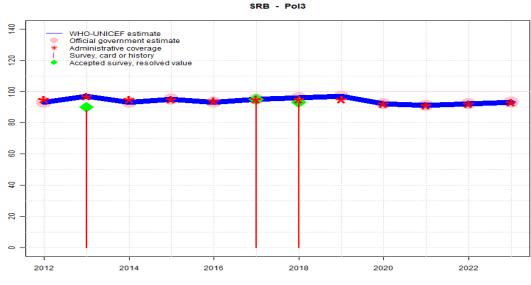


	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Estimate	NA	NA	NA	NA	NA	NA	67	92	88	89	90	82
Estimate GoC	NA	NA	NA	NA	NA	NA	•	•	•	••	••	••
Official	NA	93	88	89	90	82						
Administrative	NA	NA	NA	NA	NA	NA	48	92	88	89	90	82
Survey	NA	NA	NA	NA	NA	12	65	NA	NA	NA	NA	NA

- ••• Estimate is supported by reported data [R+], coverage recalculated with an independent denominator from the World Population Prospects: 2022 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.

- 2023: Estimate informed by reported data. No nationally representative household survey for the most recent 5 annual birth cohorts. WHO and UNICEF recommend a high quality survey to verify reported levels of coverage. Recommended age for 3rd dose changed from 20 weeks to 18 months. GoC=R+ D+
- 2022: Estimate informed by reported data. Estimate of 90 percent changed from previous revision value of 89 percent. GoC=R+D+
- 2021: Estimate informed by reported data. Estimate of 89 percent changed from previous revision value of 88 percent. GoC=R+D+
- 2020: Estimate informed by reported data. Estimate of 88 percent changed from previous revision value of 87 percent. Estimate challenged by: S-
- 2019: Estimate based on reported administrative data. . Estimate challenged by: S-
- 2018: Survey evidence does not support reported data. Estimate based on survey results. Survey evidence of 67 percent based on 1 survey(s). Serbia Multiple Indicator Cluster Survey 2019 card or history results of 65 percent modified for recall bias to 67 percent based on 1st dose card or history coverage of 71 percent, 1st dose card only coverage of 60 percent and 3rd dose card only coverage of 57 percent. Pneumococcal conjugate vaccine introduced in April 2018 Estimate challenged by: R-

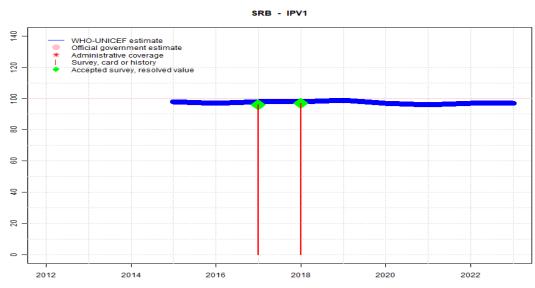


	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Estimate	93	97	93	95	93	95	96	97	92	91	92	93
Estimate GoC	•••	•••	•••	•••	•••	•••	•••	•••	•••	••	••	••
Official	93	NA	93	95	93	95	96	97	92	91	92	93
Administrative	95	97	95	95	94	95	95	95	92	91	92	93
Survey	NA	88	NA	NA	NA	94	93	NA	NA	NA	NA	NA

- ••• Estimate is supported by reported data [R+], coverage recalculated with an independent denominator from the World Population Prospects: 2022 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.

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- 2022: Estimate informed by reported data. GoC=R+ D+
- 2021: Estimate informed by reported data. GoC=R+ D+
- 2020: Estimate informed by reported data. GoC=R+S+D+
- 2019: Estimate informed by reported data. GoC=R+S+D+
- 2018: Estimate informed by reported data supported by survey. Survey evidence of 93 percent based on 1 survey(s). GoC=R+S+D+
- 2017: Estimate informed by reported data supported by survey. Survey evidence of 95 percent based on 1 survey(s). Serbia Multiple Indicator Cluster Survey 2019 card or history results of 94 percent modified for recall bias to 95 percent based on 1st dose card or history coverage of 96 percent, 1st dose card only coverage of 85 percent and 3rd dose card only coverage of 84 percent. GoC=R+ S+ D+
- 2016: Estimate informed by reported data. GoC=R+S+D+
- 2015: Estimate informed by reported data. GoC=R+S+D+
- 2014: Estimate informed by reported data. GoC=R+S+D+
- 2013: Estimate informed by reported administrative data supported by survey. Survey evidence of 90 percent based on 1 survey(s). Serbia Multiple Indicator Cluster Survey 2014 card or history results of 88 percent modifed for recall bias to 90 percent based on 1st dose card or history coverage of 93 percent, 1st dose card only coverage of 86 percent and 3rd dose card only coverage of 83 percent. GoC=R+S+D+
- 2012: Estimate informed by reported data. GoC=R+S+D+



	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Estimate	NA	NA	NA	98	97	98	98	99	97	96	97	97
Estimate GoC	NA	NA	NA	••	••	••	••	••	••	•	•	•
Official	NA											
Administrative	NA											
Survey	NA	NA	NA	NA	NA	96	97	NA	NA	NA	NA	NA

- ••• Estimate is supported by reported data [R+], coverage recalculated with an independent denominator from the World Population Prospects: 2022 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:

Estimates for a dose of inactivated polio vaccine (IPV) begin in 2015 following the Global Polio Eradication Initiative's Polio Eradication and Endgame Strategic Plan: 2013-2018 which recommended at least one full dose or two fractional doses of IPV into routine immunization schedules as a strategy to mitigate the potential consequences should any re-emergence of type 2 poliovirus occur following the planned withdrawal of Sabin type 2 strains from oral polio vaccine (OPV).

2023: Estimate based on estimated DTP1 coverage. No nationally representative household survey for the most recent 5 annual birth cohorts. WHO and UNICEF recommend a high quality survey to verify reported levels of coverage. GoC=No accepted empirical data

2022: Estimate informed by extrapolation from prior year. GoC=No accepted empirical data

2021: Estimate based on extrapolation from prior year. GoC=No accepted empirical data

2020: Estimate based on estimated DTP1 coverage. GoC=S+

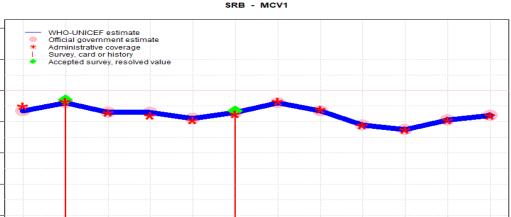
2019: Estimate based on estimated DTP1 coverage. GoC=S+

2018: Estimate based on estimated DTP1 coverage. GoC=S+

2017: Estimate based on estimated DTP1 coverage. GoC=S+

2016: Estimate is based on estimated DTP1 coverage level. GoC=S+

2015: Estimate is based on estimated DTP1 coverage level. GoC=S+



2018

2020

2022

	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Estimate	87	92	86	86	82	86	92	87	78	75	81	84
Estimate GoC	•••	•••	•••	•••	•••	•••	•••	•••	••	••	••	••
Official	87	92	86	86	82	86	92	87	78	75	81	84
Administrative	90	93	86	84	81	85	93	88	78	75	81	84
Survey	NA	94	NA	NA	NA	87	NA	NA	NA	NA	NA	NA

2016

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: 2022 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:

- 2023: Estimate informed by reported data. No nationally representative household survey for the most recent 5 annual birth cohorts. WHO and UNICEF recommend a high quality survey to verify reported levels of coverage. GoC=R+ D+
- 2022: Estimate informed by reported data. GoC=R+ D+
- 2021: Estimate informed by reported data. GoC=R+ D+
- 2020: Estimate informed by reported data. GoC=R+ D+
- 2019: Estimate informed by reported data. GoC=R+S+D+
- 2018: Estimate informed by reported data. GoC=R+S+D+
- 2017: Estimate informed by reported data supported by survey. Survey evidence of 87 percent based on 1 survey(s). GoC=R+S+D+
- 2016: Estimate informed by reported data. GoC=R+S+D+
- 2015: Estimate informed by reported data. GoC=R+ S+ D+
- 2014: Estimate informed by reported data. GoC=R+ S+ D+
- 2013: Estimate informed by reported data supported by survey. Survey evidence of 94 percent based on 1 survey(s). GoC=R+ S+ D+
- 2012: Estimate informed by reported data. GoC=R+ S+ D+

8

8

9

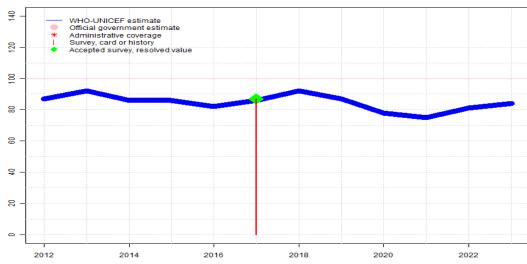
9

20

2012

2014





	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Estimate	87	92	86	86	82	86	92	87	78	75	81	84
Estimate GoC	•••	•••	•••	•••	•••	•••	•••	•••	••	••	••	••
Official	NA											
Administrative	NA											
Survey	NA	NA	NA	NA	NA	87	NA	NA	NA	NA	NA	NA

- ••• Estimate is supported by reported data [R+], coverage recalculated with an independent denominator from the World Population Prospects: 2022 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.

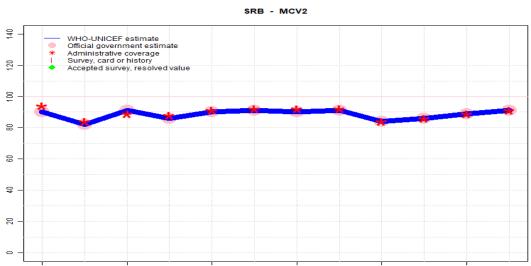
In all cases these estimates should be used with caution and should be assessed in light of the objective for which they are being used.

#### Description:

For this revision, coverage estimates for the first dose of rubella containing vaccine are based on WHO and UNICEF estimates of coverage of measles containing vaccine. Nationally reported coverage of rubella containing vaccine is not taken into consideration nor are they represented in the the accompanying graph and data table.

2023: Estimate based on estimated MCV1. No nationally representative household survey for the most recent 5 annual birth cohorts. WHO and UNICEF recommend a high quality survey to verify reported levels of coverage. GoC=R+ D+

- 2022: Estimate based on estimated MCV1. GoC=R+ D+
- 2021: Estimate based on estimated MCV1. GoC=R+ D+
- 2020: Estimate based on estimated MCV1. GoC=R+D+
- 2019: Estimate based on estimated MCV1. GoC=R+S+D+
- 2018: Estimate based on estimated MCV1. GoC=R+S+D+
- 2017: Estimate based on estimated MCV1. GoC=R+ S+ D+
- 2016: Estimate based on estimated MCV1. GoC=R+S+D+
- 2015: Estimate based on estimated MCV1. GoC=R+S+D+
- 2014: Estimate based on estimated MCV1. GoC=R+S+D+
- 2013: Estimate based on estimated MCV1. GoC=R+S+D+



2018

2020

2022

	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Estimate	90	82	91	86	90	91	90	91	84	86	89	91
Estimate GoC	••	••	••	••	••	••	••	••	••	••	••	••
Official	90	82	91	86	90	91	90	91	84	86	89	91
Administrative	94	84	89	88	91	92	92	92	84	86	89	91
Survey	NA											

2016

2014

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: 2022 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.

2023: Estimate informed by reported data. No nationally representative household survey for the most recent 5 annual birth cohorts. WHO and UNICEF recommend a high quality survey to verify reported levels of coverage. GoC=R+ D+

2022: Estimate informed by reported data. GoC=R+ D+

2021: Estimate informed by reported data. GoC=R+ D+

2020: Estimate informed by reported data. GoC=R+ D+

2019: Estimate informed by reported data. GoC=R+ D+

2018: Estimate informed by reported data. GoC=R+ D+

2017: Estimate informed by reported data. GoC=R+ D+

of 7. Estimate informed by reported data. GoO=It+ D+

2016: Estimate informed by reported data. GoC=R+ D+  $\,$ 

2015: Estimate informed by reported data. GoC=R+ D+

2014: Estimate informed by reported data. GoC=R+ D+ 2013: Estimate informed by reported data. GoC=R+ D+

2012: Estimate informed by reported data. GoC=R+ D+

2012

NOTE: A survey to measure vaccination coverage for infants (i.e., children aged 0-11 months) will sample children aged 12-23 months at the time of survey to capture the youngest annual cohort of children who should have completed the vaccination schedule. Because WUENIC are for infant vaccinations, survey data in this report are presented to reflect the birth year of the youngest survey cohort. For example, results for a survey conducted during December 2020 among children aged 12-23 months at the time of the survey reflect the immunization experience of children born in 2019. Depending on the timing of survey field work, results may reflect the immunization experience of children born and vaccinated 1 or 2 years prior to the survey field work.

#### 2018 Serbia Multiple Indicator Cluster Survey 2019

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	C  or  H < 12  months	96.4	12-23  m	365	68
BCG	Card	77.3	12-23  m	365	68
BCG	Card or History	96.6	12-23  m	365	68
BCG	History	19.3	$12\text{-}23~\mathrm{m}$	365	68
DTP1	C  or  H < 12  months	94.8	$12\text{-}23~\mathrm{m}$	365	68
DTP1	Card	80.8	$12\text{-}23~\mathrm{m}$	365	68
DTP1	Card or History		$12\text{-}23~\mathrm{m}$	365	68
DTP1	History			365	68
DTP3	C  or  H < 12  months	91.3	$12\text{-}23~\mathrm{m}$	365	68
DTP3	Card	78	$12\text{-}23~\mathrm{m}$	365	68
DTP3			$12\text{-}23~\mathrm{m}$	365	68
DTP3	History	13.9	$12\text{-}23~\mathrm{m}$	365	68
HepB1	C  or  H < 12  months	96	$12\text{-}23~\mathrm{m}$	365	68
HepB1			$12\text{-}23~\mathrm{m}$	365	68
HepB1	Card or History	96.3	$12\text{-}23~\mathrm{m}$	365	68
HepB1		15.1	$12\text{-}23~\mathrm{m}$	365	68
HepBB	C or H $<$ 12 months	97.6	$12\text{-}23~\mathrm{m}$	365	68
HepBB			$12\text{-}23~\mathrm{m}$	365	68
HepBB	Card or History History	97.6	$12\text{-}23~\mathrm{m}$	365	68
HepBB	History	16.2	$12\text{-}23~\mathrm{m}$	365	68
Hib1	C or H $<$ 12 months	94.1	$12\text{-}23~\mathrm{m}$	365	68
Hib1	Card	80.1	$12\text{-}23~\mathrm{m}$	365	68
Hib1	Card or History History	95.8	$12\text{-}23~\mathrm{m}$	365	68
Hib1	History	15.6	$12\text{-}23~\mathrm{m}$	365	68

Hib3	C or H $<$ 12 months	90.6	$12\text{-}23~\mathrm{m}$	365	68
Hib3	Card	77.3	$12\text{-}23~\mathrm{m}$	365	68
Hib3	Card or History	91.1	$12\text{-}23~\mathrm{m}$	365	68
Hib3	History	13.9	$12\text{-}23~\mathrm{m}$	365	68
IPV1	C or H $<$ 12 months	95.5	$12\text{-}23~\mathrm{m}$	365	68
IPV1	Card	80.8	$12\text{-}23~\mathrm{m}$	365	68
IPV1	Card or History	97.2	$12\text{-}23~\mathrm{m}$	365	68
IPV1	History	16.4	$12\text{-}23~\mathrm{m}$	365	68
PcV1	C or H $<$ 12 months	70.9	$12\text{-}23~\mathrm{m}$	365	68
PcV1	Card	60	$12\text{-}23~\mathrm{m}$	365	68
PcV1	Card or History	71.4	$12\text{-}23~\mathrm{m}$	365	68
PcV1	History	11.4	$12\text{-}23~\mathrm{m}$	365	68
PcV3	C or H $<$ 12 months	64.2	$12\text{-}23~\mathrm{m}$	365	68
PcV3	Card	56.7	$12\text{-}23~\mathrm{m}$	365	68
PcV3	Card or History	65.4	$12\text{-}23~\mathrm{m}$	365	68
PcV3	History	8.7	$12\text{-}23~\mathrm{m}$	365	68
Pol1	C or H $<$ 12 months	95.5	$12\text{-}23~\mathrm{m}$	365	68
Pol1	Card	80.8	12-23  m	365	68
Pol1	Card or History	97.2	$12\text{-}23~\mathrm{m}$	365	68
Pol1	History	16.4	$12\text{-}23~\mathrm{m}$	365	68
Pol3	C or H $<$ 12 months	92	$12\text{-}23~\mathrm{m}$	365	68
Pol3	Card	78	$12\text{-}23~\mathrm{m}$	365	68
Pol3	Card or History	92.6	$12\text{-}23~\mathrm{m}$	365	68
Pol3	History	14.6	$12\text{-}23~\mathrm{m}$	365	68

#### 2017 Serbia Multiple Indicator Cluster Survey 2019

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	C or H $<$ 12 months	92.5	$24\text{-}35~\mathrm{m}$	384	-
BCG	Card	76.7	$24\text{-}35~\mathrm{m}$	384	-
BCG	Card or History	93	$24\text{-}35~\mathrm{m}$	384	-
BCG	History	16.4	$24\text{-}35~\mathrm{m}$	384	-
DTP1	C or H $<$ 12 months	95.4	$24\text{-}35~\mathrm{m}$	384	-
DTP1	Card	85.2	$24\text{-}35~\mathrm{m}$	384	-
DTP1	Card or History	96	$24\text{-}35~\mathrm{m}$	384	-
DTP1	History	10.9	$24\text{-}35~\mathrm{m}$	384	-
DTP3	C or H $<$ 12 months	89.8	$24\text{-}35~\mathrm{m}$	384	-
DTP3	Card	84	$24\text{-}35~\mathrm{m}$	384	-
DTP3	Card or History	94.7	$24-35~\mathrm{m}$	384	_

DTP3	History	10.7	24-35 m	384	-	Pol3	History	10.5	24-35 m	384	-
HepB1	C or H $<$ 12 months	97.4	$24\text{-}35~\mathrm{m}$	384	-						
HepB1	Card	85.2	$24\text{-}35~\mathrm{m}$	384	-	2012 C	1 . 3 . 1 . 1 1 .	. (71		2014	
HepB1	Card or History	97.4	$24\text{-}35~\mathrm{m}$	384	-	2013 Sei	rbia Multiple Indica	tor Clus	ter Survey	2014	
HepB1	History	12.2	$24\text{-}35~\mathrm{m}$	384	-						
HepBB	C or H $<$ 12 months	97.1	$24\text{-}35~\mathrm{m}$	384	-	Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
HepBB	Card	85.4	$24\text{-}35~\mathrm{m}$	384	-	BCG	C or H <12 months	98	12-23 m	489	87
HepBB	Card or History	97.4	$24\text{-}35~\mathrm{m}$	384	-	BCG	Card	80.3	12-23 m	_	87
HepBB	History	12	$24\text{-}35~\mathrm{m}$	384	-	BCG	Card or History	98	12-23 m	489	87
Hib1	C or H $<$ 12 months	95.4	$24\text{-}35~\mathrm{m}$	384	-	BCG	History	17.6	12-23 m	_	87
Hib1	Card	85.2	$24\text{-}35~\mathrm{m}$	384	-	DTP1	C or H <12 months	92.9	12-23 m	489	87
Hib1	Card or History	96	$24\text{-}35~\mathrm{m}$	384	-	DTP1	Card	86.6	12-23 m	_	87
Hib1	History	10.9	$24\text{-}35~\mathrm{m}$	384	-	DTP1	Card or History	93.1	12-23 m	489	87
Hib3	C or H $<$ 12 months	89.8	$24\text{-}35~\mathrm{m}$	384	-	DTP1	History	6.4	12-23 m	_	87
Hib3	Card	84	$24\text{-}35~\mathrm{m}$	384	-	DTP3	C or $H < 12$ months	87.4	$12-23 \mathrm{m}$	489	87
Hib3	Card or History	94.7	$24\text{-}35~\mathrm{m}$	384	-	DTP3	Card	83.9	$12-23 \mathrm{m}$	_	87
Hib3	History	10.7	$24\text{-}35~\mathrm{m}$	384	-	DTP3	Card or History	89	$12-23 \mathrm{\ m}$	489	87
IPV1	C or H $<$ 12 months	95.3	$24\text{-}35~\mathrm{m}$	384	-	DTP3	History	5.1	12-23 m	_	87
IPV1	Card	85.3	$24\text{-}35~\mathrm{m}$	384	-	HepB1	C or $H < 12$ months	98.2	$12-23~\mathrm{m}$	489	87
IPV1	Card or History	95.9	$24\text{-}35~\mathrm{m}$	384	-	HepB1	Card	86.2	$12-23~\mathrm{m}$	-	87
IPV1	History	10.6	$24\text{-}35~\mathrm{m}$	384	-	HepB1	Card or History	98.5	$12-23 \mathrm{\ m}$	489	87
MCV1	C  or  H < 12  months	83.6	24-35  m	384	-	HepB1	History	12.3	$12-23~\mathrm{m}$	-	87
MCV1	Card	77.2	24-35  m	384	-	HepB3	C or $H < 12$ months	91.3	$12-23~\mathrm{m}$	489	87
MCV1	Card or History	87.2	$24\text{-}35~\mathrm{m}$	384	-	HepB3	Card	82.2	$12-23~\mathrm{m}$	-	87
MCV1	History	10.1	$24\text{-}35~\mathrm{m}$	384	-	HepB3	Card or History	93.2	12-23  m	489	87
PcV1	C  or  H < 12  months	8.3	24-35  m	384	-	HepB3	History	11	$12-23~\mathrm{m}$	_	87
PcV1	Card	10.2	24-35  m	384	-	HepBB	C or H <12 months	98.2	$12-23~\mathrm{m}$	489	87
PcV1	Card or History	18.1	$24\text{-}35 \mathrm{\ m}$	384	-	HepBB	Card	86.2	$12-23~\mathrm{m}$	-	87
PcV1	History	7.9	$24\text{-}35~\mathrm{m}$	384	-	HepBB	Card or History	98.5	$12\text{-}23~\mathrm{m}$	489	87
PcV3	C  or  H < 12  months	11.8	24-35  m	384	-	HepBB	History	12.3	$12\text{-}23~\mathrm{m}$	_	87
PcV3	Card	3.6	24-35  m	384	-	Hib1	C  or  H < 12  months	91.5	$12\text{-}23~\mathrm{m}$	489	87
PcV3	Card or History	11.8	24-35  m	384	-	Hib1	Card	85.3	$12\text{-}23~\mathrm{m}$	-	87
PcV3	History	8.3	$24\text{-}35 \mathrm{\ m}$	384	-	Hib1	Card or History	92	$12\text{-}23~\mathrm{m}$	489	87
Pol1	C  or  H < 12  months	95.3	24-35  m	384	-	Hib1	History	6.7	$12\text{-}23~\mathrm{m}$	-	87
Pol1	Card	85.3	$24\text{-}35~\mathrm{m}$	384	-	Hib3	C  or  H < 12  months	80.4	$12\text{-}23~\mathrm{m}$	489	87
Pol1	Card or History	95.9	$24\text{-}35 \mathrm{\ m}$	384	-	Hib3	Card	77.1	$12\text{-}23~\mathrm{m}$	-	87
Pol1	History	10.6	24-35  m	384	-	Hib3	Card or History	82.7	$12\text{-}23~\mathrm{m}$	489	87
Pol3	C  or  H < 12  months	89.6	24-35  m	384	-	Hib3	History	5.6	$12\text{-}23~\mathrm{m}$	-	87
Pol3	Card	84	24-35  m	384	-	MCV1	Card	82.3	$24\text{-}35~\mathrm{m}$	-	-
Pol3	Card or History	94.5	$24-35 \mathrm{m}$	384	-	MCV1	Card or History	94.4	$24\text{-}35~\mathrm{m}$	465	-

MCV1	History	12.2	$24\text{-}35~\mathrm{m}$	-	-
Pol1	C or H $<$ 12 months	92.8	$12\text{-}23~\mathrm{m}$	489	87
Pol1	Card	86.5	$12\text{-}23~\mathrm{m}$	-	87
Pol1	Card or History	92.9	$12\text{-}23~\mathrm{m}$	489	87
Pol1	History	6.4	$12\text{-}23~\mathrm{m}$	-	87
Pol3	C or H $<$ 12 months	86.4	$12\text{-}23~\mathrm{m}$	489	87
Pol3	Card	83.3	$12\text{-}23~\mathrm{m}$	-	87
Pol3	Card or History	88.4	$12\text{-}23~\mathrm{m}$	489	87
Pol3	History	5.1	$12\text{-}23~\mathrm{m}$	-	87

### 2012 Serbia Multiple Indicator Cluster Survey 2014

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	C or H $<$ 12 months	99	$24\text{-}35~\mathrm{m}$	465	-
DTP1	C or H $<$ 12 months	90.5	$24\text{-}35~\mathrm{m}$	465	-
DTP3	C or H $<$ 12 months	85.9	$24\text{-}35~\mathrm{m}$	465	-
HepB1	C or H $<$ 12 months	98.6	$24\text{-}35~\mathrm{m}$	465	-
HepBB	C or H $<$ 12 months	99	$24\text{-}35~\mathrm{m}$	465	-
Hib1	C or H $<$ 12 months	90.6	$24\text{-}35~\mathrm{m}$	465	-
Hib3	C or H $<$ 12 months	82.4	$24\text{-}35~\mathrm{m}$	465	-
MCV1	C  or  H < 24  months	93.4	$24\text{-}35~\mathrm{m}$	465	-
Pol1	C or H $<$ 12 months	90.9	$24\text{-}35~\mathrm{m}$	465	-
Pol3	C or H $<$ 12 months	85.6	$24-35 \mathrm{\ m}$	465	-

### 2004Serbia Multiple Indicator Cluster Survey 2005

Vaccine	$Confirmation\ method$	Coverage	Age cohort	Sample	Cards seen
BCG	C or H $<$ 12 months	74.1	$18\text{-}29~\mathrm{m}$	782	-
BCG	Card	44.2	$18\text{-}29~\mathrm{m}$	782	-
BCG	Card or History	74.5	$18\text{-}29~\mathrm{m}$	782	-
BCG	History	30.4	$18\text{-}29~\mathrm{m}$	782	-
DTP1	C or H $<$ 12 months	97.1	$18\text{-}29~\mathrm{m}$	782	-
DTP1	Card	72.7	$18\text{-}29~\mathrm{m}$	782	-
DTP1	Card or History	98.5	$18\text{-}29~\mathrm{m}$	782	-

DTP1	History	25.8	$18-29~\mathrm{m}$	782	-
DTP3	C or $H < 12$ months	89.7	$18-29~\mathrm{m}$	782	-
DTP3	Card	77.8	$18-29~\mathrm{m}$	782	-
DTP3	Card or History	95.6	$18-29~\mathrm{m}$	782	-
DTP3	History	17.8	$18-29~\mathrm{m}$	782	-
MCV1	C or $H < 12$ months	84.1	$18-29~\mathrm{m}$	782	-
MCV1	Card	64.1	$18-29~\mathrm{m}$	782	-
MCV1	Card or History	86.6	$18-29~\mathrm{m}$	782	-
MCV1	History	22.5	$18-29~\mathrm{m}$	782	-
Pol1	C or H $<$ 12 months	95	$18-29~\mathrm{m}$	782	-
Pol1	Card	70	$18-29~\mathrm{m}$	782	-
Pol1	Card or History	96.9	$18-29~\mathrm{m}$	782	-
Pol1	History	26.9	$18-29~\mathrm{m}$	782	-
Pol3	C or H $<$ 12 months	88.2	$18-29~\mathrm{m}$	782	-
Pol3	Card	75.1	$18-29~\mathrm{m}$	782	-
Pol3	Card or History	93.8	$18-29~\mathrm{m}$	782	-
Pol3	History	18.7	$18-29~\mathrm{m}$	782	-

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

Vaccine	Confirmation method	Coverage	Age cohort	${\bf Sample}$	Cards seen
BCG	C or H $<$ 12 months	100	$12\text{-}23~\mathrm{m}$	341	76
DTP1	C or H $<$ 12 months	97.6	$12\text{-}23~\mathrm{m}$	341	76
DTP3	C or H $<$ 12 months	94.9	$12\text{-}23~\mathrm{m}$	341	76
Pol1	C or H $<$ 12 months	98.4	$12\text{-}23~\mathrm{m}$	341	76
Pol3	C or H $<$ 12 months	98	$12\text{-}23~\mathrm{m}$	341	76

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

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Vaccine Confirmation method Coverage Age cohort Sample Cards seen MCV1 Card or History 89.2 24-35 m 341 -
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Further information and estimates for previous years are available at:

https://data.unicef.org/topic/child-health/immunization/

https://immunizationdata.who.int/listing.html