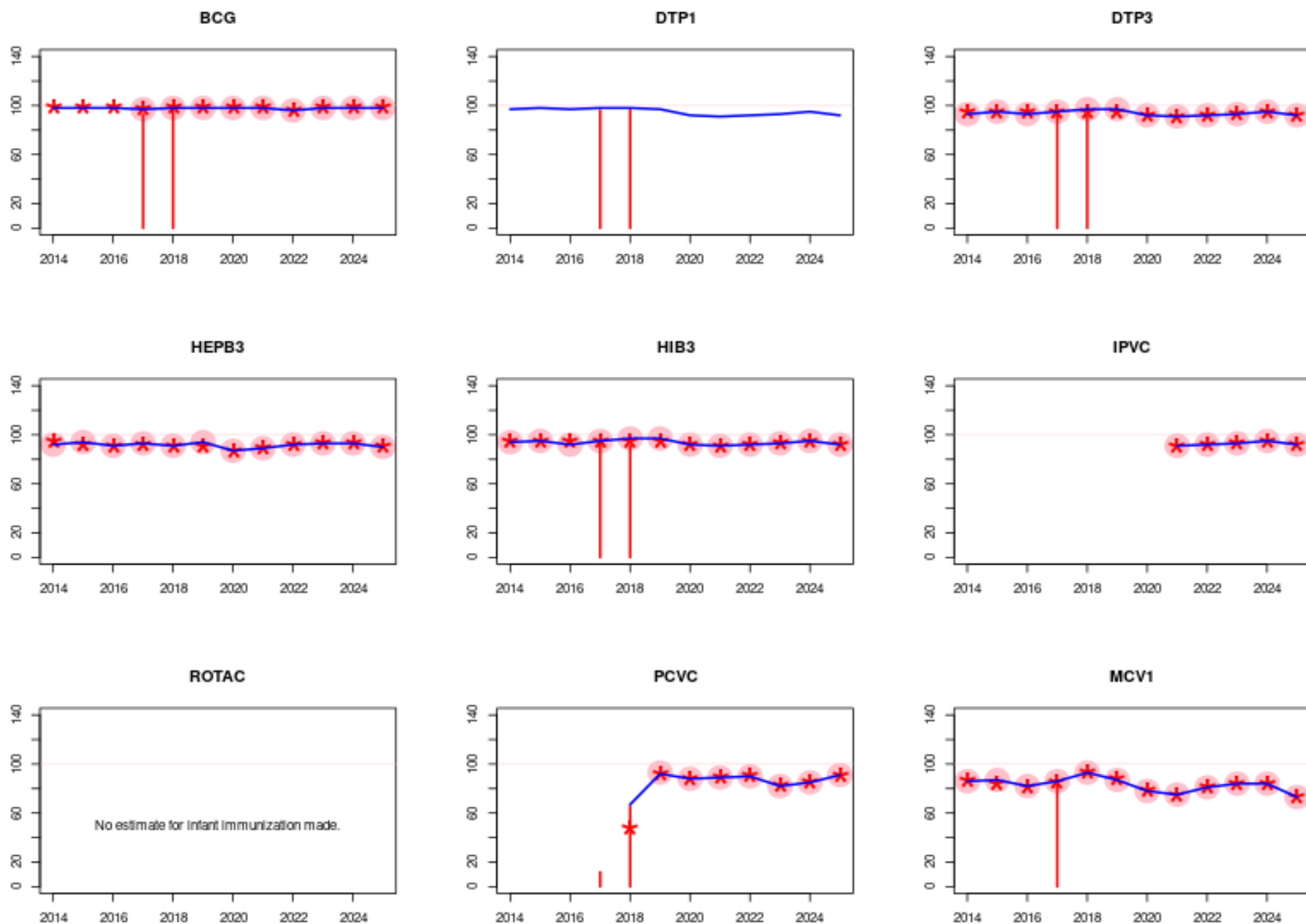




BACKGROUND NOTE Each year WHO and UNICEF jointly review reports submitted by Member States regarding national immunization coverage, finalized survey reports as well as data from published and grey literature. Based on these data, with due consideration to potential biases and the views of local experts, 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. The estimates refer to immunizations delivered through routine immunization services to children less than 12 months of age, or at the age specified in the recommended immunization schedule, for whom vaccinations are recorded. Immunizations received through supplemental immunization activities, such as polio and measles campaigns, are not included.

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.
* Brown et al. 2013. Open Pub Health Journal. * 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 6-11, 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 AND DEFINITIONS

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.

IPV1: percentage of surviving infants who received the first dose of inactivated polio vaccine.

IPVC: percentage of surviving infants who received the final recommended dose of IPV in the primary series, according to the national immunization schedule primary series (e.g., second or third dose).

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. Coverage 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 in the production of the estimate.

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.

PCVC: percentage of surviving infants who received the final recommended dose of pneumococcal conjugate vaccine according to the national immunization schedule (e.g., second or third dose).

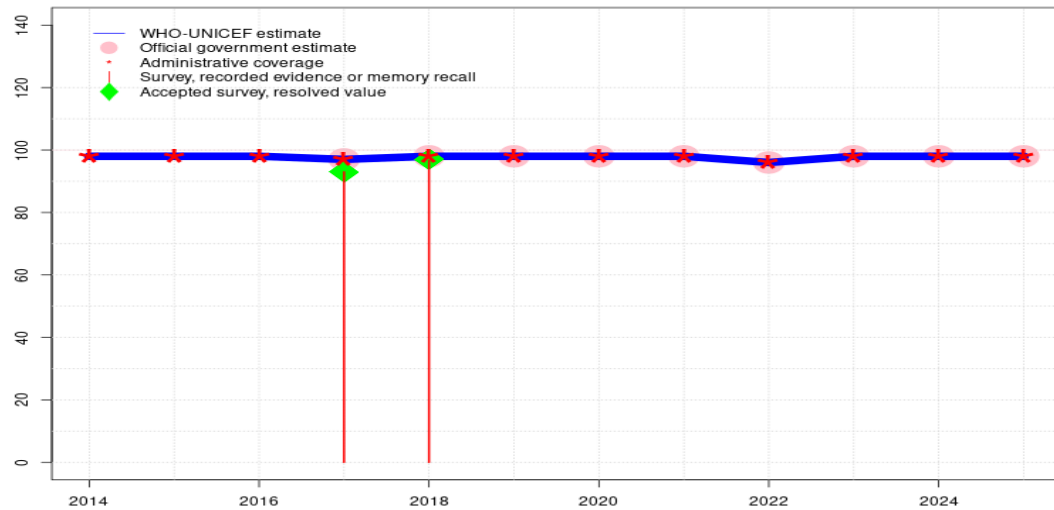
YFV: percentage of surviving infants who received one dose of yellow fever vaccine in countries where YFV is part of the national immunization schedule for children or is recommended in at risk areas; coverage estimates are annualized for the entire cohort of surviving infants.

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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Serbia - BCG

SRB - BCG



Description:

- 2025: Estimate informed by reported data. Vaccination in the private sector is not included. WHO and UNICEF are aware of the ongoing 2025 Multiple Indicator Cluster Survey and await final results. GoC=R+ D+
- 2024: Estimate informed by reported data. GoC=R+ D+
- 2023: Estimate informed by reported data. 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+

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Estimate	98	98	98	97	98	98	98	98	96	98	98	98
Estimate GoC	●●●	●●●	●●●	●●●	●●●	●●●	●●●	●●	●●	●●	●●	●●
Official	-	-	-	97	98	98	98	98	96	98	98	98
Administrative	98	98	98	97	98	98	98	98	96	98	98	98
Survey	-	-	-	93	97	-	-	-	-	-	-	-

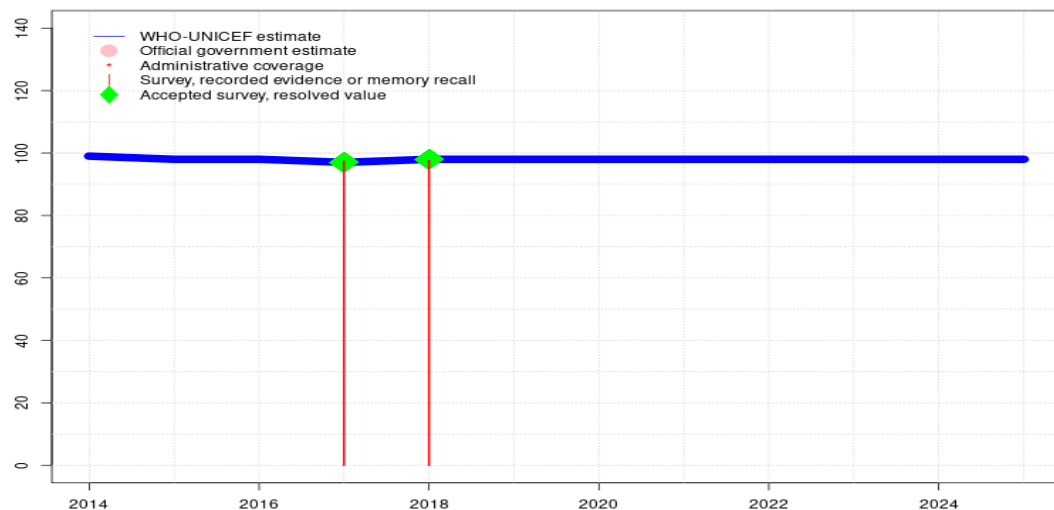
The WHO and UNICEF estimates of national immunization coverage (wuenic) are based on data and information that are of varying, and, in some instances, unknown quality. Beginning with the 2011 revision we describe the grade of confidence (GoC) we have in these estimates. As there is no underlying probability 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: 2024 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 - HEPBB

SRB - HEPBB



	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Estimate	99	98	98	97	98	98	98	98	98	98	98	98
Estimate GoC	●●	●●	●●	●●	●●	●●	●●	●	●	●	●	●
Official	-	-	-	-	-	-	-	-	-	-	-	-
Administrative	-	-	-	-	-	-	-	-	-	-	-	-
Survey	-	-	-	97	98	-	-	-	-	-	-	-

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.

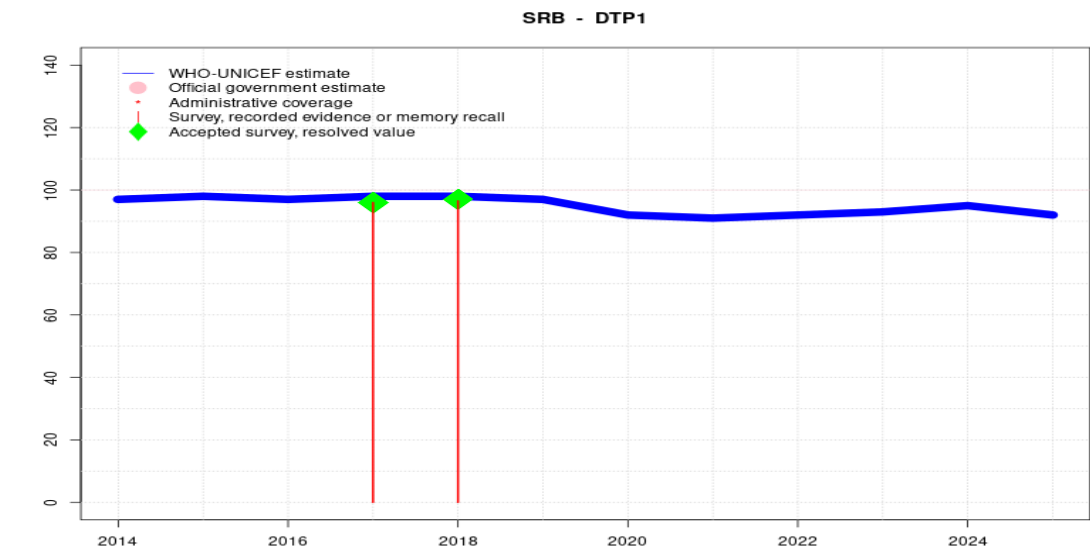
- Estimate is supported by reported data [R+], coverage recalculated with an independent denominator from the World Population Prospects: 2024 revision from the UN Population Division (D+), and at least one supporting survey within 2 years [S+]. While well supported, the estimate still carries a risk 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:

- 2025: Reported data calibrated to 2018 levels. Vaccination in the private sector is not included. WHO and UNICEF are aware of the ongoing 2025 Multiple Indicator Cluster Survey and await final results. GoC=No accepted empirical data
- 2024: Reported data calibrated to 2018 levels. GoC=No accepted empirical data
- 2023: Reported data calibrated to 2018 levels. Country indicates that the immunization information system is not set-up to capture Hep B birth dose. GoC=No accepted empirical data
- 2022: Reported data calibrated to 2018 levels. GoC=No accepted empirical data
- 2021: Reported data calibrated to 2018 levels. GoC=No accepted empirical data
- 2020: Reported data calibrated to 2018 levels. GoC=S+
- 2019: Reported data calibrated to 2018 levels. GoC=S+
- 2018: Estimate of 98 percent assigned by working group. Estimate based on survey coverage. GoC=S+
- 2017: Estimate of 97 percent assigned by working group. Country indicates that the immunization information system is not set-up to capture Hep B birth dose GoC=S+
- 2016: Estimate informed by interpolation between 2013 and 2017 levels. GoC=S+
- 2015: Estimate informed by interpolation between 2013 and 2017 levels. GoC=S+
- 2014: Estimate informed by interpolation between 2013 and 2017 levels. GoC=S+

Serbia - DTP1



Description:

- 2025: Estimate based on DTP3 coverage of 92. Vaccination in the private sector is not included. WHO and UNICEF are aware of the ongoing 2025 Multiple Indicator Cluster Survey and await final results. GoC=No accepted empirical data
- 2024: Estimate based on DTP3 coverage of 95. GoC=No accepted empirical data
- 2023: Estimate based on DTP3 coverage of 93. GoC=No accepted empirical data
- 2022: Estimate based on DTP3 coverage of 92. GoC=No accepted empirical data
- 2021: Estimate informed by extrapolation from reported data. GoC=No accepted empirical data
- 2020: Estimate based on DTP3 coverage of 92. GoC=S+
- 2019: Estimate based on DTP3 coverage of 97. GoC=S+
- 2018: Estimate informed by estimated DTP3 coverage adjusted for dropout. GoC=S+
- 2017: Estimate informed by estimated DTP3 coverage adjusted for dropout. GoC=S+
- 2016: Estimate informed by estimated DTP3 coverage adjusted for dropout. GoC=S+
- 2015: Estimate informed by estimated DTP3 coverage adjusted for dropout. GoC=S+
- 2014: Estimate informed by estimated DTP3 coverage adjusted for dropout. GoC=S+

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Estimate	97	98	97	98	98	97	92	91	92	93	95	92
Estimate GoC	●●	●●	●●	●●	●●	●●	●●	●	●	●	●	●
Official	-	-	-	-	-	-	-	-	-	-	-	-
Administrative	-	-	-	-	-	-	-	-	-	-	-	-
Survey	-	-	-	96	97	-	-	-	-	-	-	-

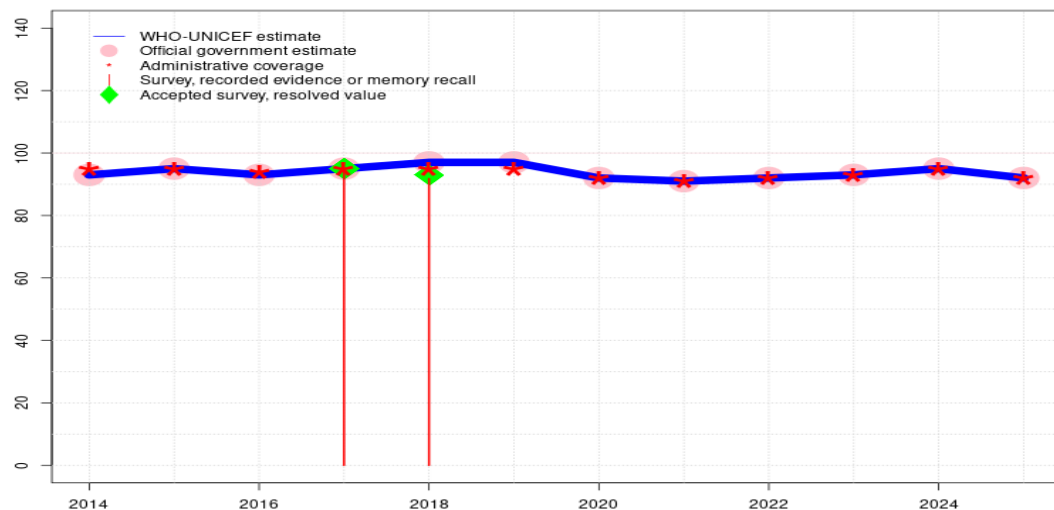
The WHO and UNICEF estimates of national immunization coverage (wuenic) are based on data and information that are of varying, and, in some instances, unknown quality. Beginning with the 2011 revision we describe the grade of confidence (GoC) we have in these estimates. As there is no underlying probability 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: 2024 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 - DTP3

SRB - DTP3



	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Estimate	93	95	93	95	97	97	92	91	92	93	95	92
Estimate GoC	●●●	●●●	●●●	●●●	●●●	●●●	●●●	●●	●●	●●	●●	●●
Official	93	95	93	95	97	97	92	91	92	93	95	92
Administrative	95	95	94	95	95	95	92	91	92	93	95	92
Survey	-	-	-	95	92	-	-	-	-	-	-	-

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: 2024 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.

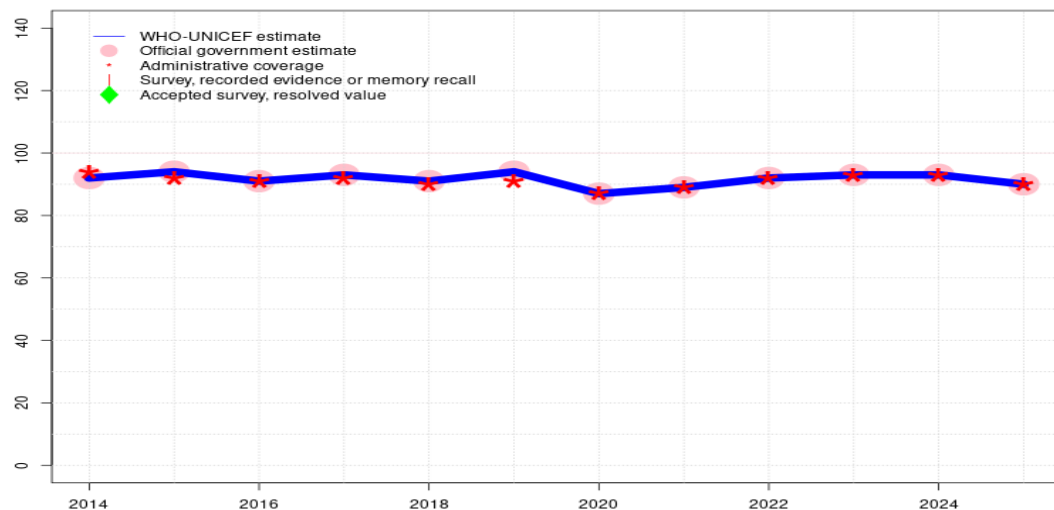
In all cases these estimates should be used with caution and should be assessed in light of the objective for which they are being used.

Description:

- 2025: Estimate informed by reported data. Vaccination in the private sector is not included. WHO and UNICEF are aware of the ongoing 2025 Multiple Indicator Cluster Survey and await final results. GoC=R+ D+
- 2024: Estimate informed by reported data. GoC=R+ D+
- 2023: Estimate informed by reported data. 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 93 percent based on 1 survey(s). Serbia Multiple Indicator Cluster Survey 2019 record or recall results of 92 percent modified for recall bias to 93 percent based on 1st dose record or recall coverage of 97 percent, 1st dose record only coverage of 81 percent and 3rd dose record only coverage of 78 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. GoC=R+ S+ D+
- 2014: Estimate informed by reported data. GoC=R+ S+ D+

Serbia - HEPB3

SRB - HEPB3



Description:

2025: Estimate informed by reported data. Vaccination in the private sector is not included. WHO and UNICEF are aware of the ongoing 2025 Multiple Indicator Cluster Survey and await final results. GoC=R+ D+

2024: Estimate informed by reported data. GoC=R+ D+

2023: Estimate informed by reported data. 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+

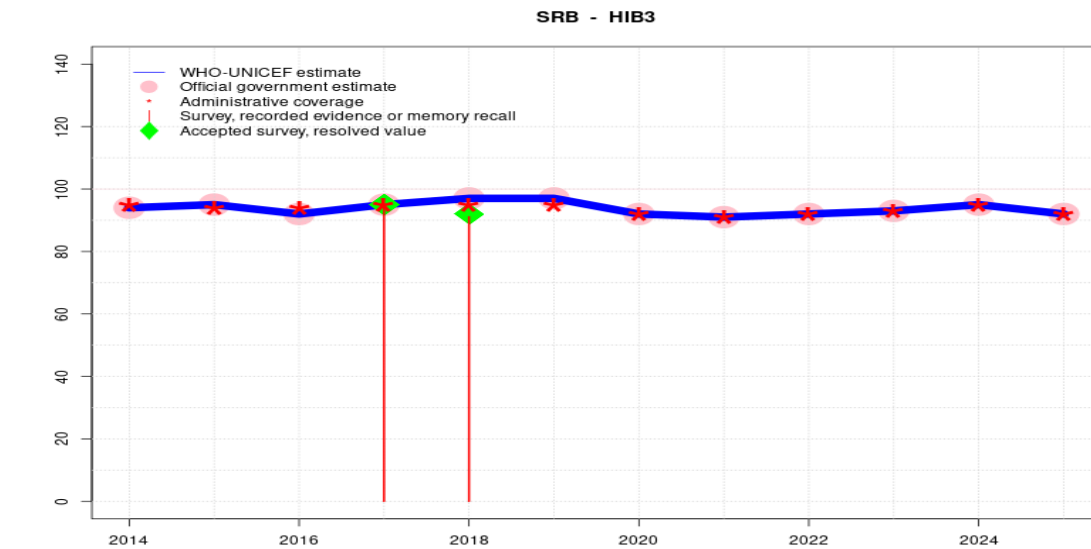
	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Estimate	92	94	91	93	91	94	87	89	92	93	93	90
Estimate GoC	●●●	●●●	●●	●●	●●	●●	●●	●●	●●	●●	●●	●●
Official	92	94	91	93	91	94	87	89	92	93	93	90
Administrative	94	92	91	92	90	91	87	89	92	93	93	90
Survey	-	-	-	-	-	-	-	-	-	-	-	-

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: 2024 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 - HIB3



	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Estimate	94	95	92	95	97	97	92	91	92	93	95	92
Estimate GoC	•	•	•••	•••	•••	•••	•••	••	••	••	••	••
Official	94	95	92	95	97	97	92	91	92	93	95	92
Administrative	95	94	94	95	95	95	92	91	92	93	95	92
Survey	-	-	-	95	91	-	-	-	-	-	-	-

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.

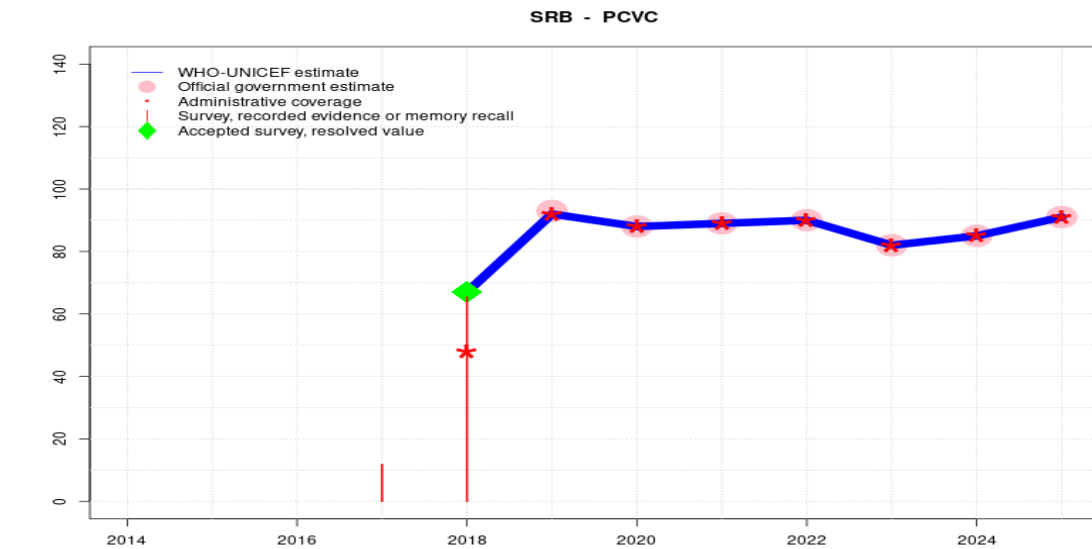
- Estimate is supported by reported data [R+], coverage recalculated with an independent denominator from the World Population Prospects: 2024 revision from the UN Population Division (D+), and at least one supporting survey within 2 years [S+]. While well supported, the estimate still carries a risk 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:

- 2025: Estimate informed by reported data. Vaccination in the private sector is not included. WHO and UNICEF are aware of the ongoing 2025 Multiple Indicator Cluster Survey and await final results. GoC=R+ D+
- 2024: Estimate informed by reported data. GoC=R+ D+
- 2023: Estimate informed by reported data. 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 record or recall results of 91 percent modified for recall bias to 92 percent based on 1st dose record or recall coverage of 96 percent, 1st dose record only coverage of 80 percent and 3rd dose record 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-

Serbia - PCVC



Description:

2025: Estimate informed by reported data. Vaccination in the private sector is not included. WHO and UNICEF are aware of the ongoing 2025 Multiple Indicator Cluster Survey and await final results. GoC=R+ D+

2024: Estimate informed by reported data. GoC=R+ D+

2023: Estimate informed by reported data. Recommended age for 3rd dose changed from 20 weeks to 18 months. 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. 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 result. Survey evidence of 67 percent based on 1 survey(s). Serbia Multiple Indicator Cluster Survey 2019 record or recall results of 65 percent modified for recall bias to 67 percent based on 1st dose record or recall coverage of 71 percent, 1st dose record only coverage of 60 percent and 3rd dose record only coverage of 57 percent. Pneumococcal conjugate vaccine introduced in April 2018 Estimate challenged by: R-

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Estimate	-	-	-	-	67	92	88	89	90	82	85	91
Estimate GoC	-	-	-	-	•	•	•	••	••	••	••	••
Official	-	-	-	-	-	93	88	89	90	82	85	91
Administrative	-	-	-	-	48	92	88	89	90	82	85	91
Survey	-	-	-	12	65	-	-	-	-	-	-	-

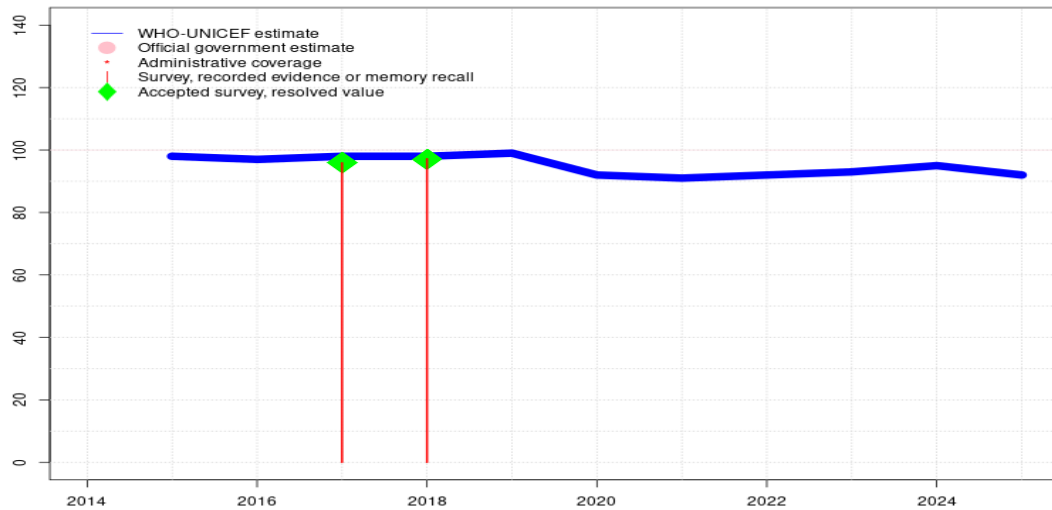
The WHO and UNICEF estimates of national immunization coverage (wuenic) are based on data and information that are of varying, and, in some instances, unknown quality. Beginning with the 2011 revision we describe the grade of confidence (GoC) we have in these estimates. As there is no underlying probability 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: 2024 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 - IPV1

SRB - IPV1



Description:

2025: Estimate based on estimated DTP1. Vaccination in the private sector is not included. WHO and UNICEF are aware of the ongoing 2025 Multiple Indicator Cluster Survey and await final results. GoC=No accepted empirical data

2024: Estimate based on estimated DTP1 coverage. GoC=No accepted empirical data

2023: Estimate based on estimated DTP1 coverage. GoC=No accepted empirical data

2022: Estimate based on estimated DTP1 coverage. 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 informed by estimated DTP1 coverage level. GoC=S+

2015: Estimate informed by estimated DTP1 coverage level. GoC=S+

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Estimate	-	98	97	98	98	99	92	91	92	93	95	92
Estimate GoC	-	●●	●●	●●	●●	●●	●●	●	●	●	●	●
Official	-	-	-	-	-	-	-	-	-	-	-	-
Administrative	-	-	-	-	-	-	-	-	-	-	-	-
Survey	-	-	-	96	97	-	-	-	-	-	-	-

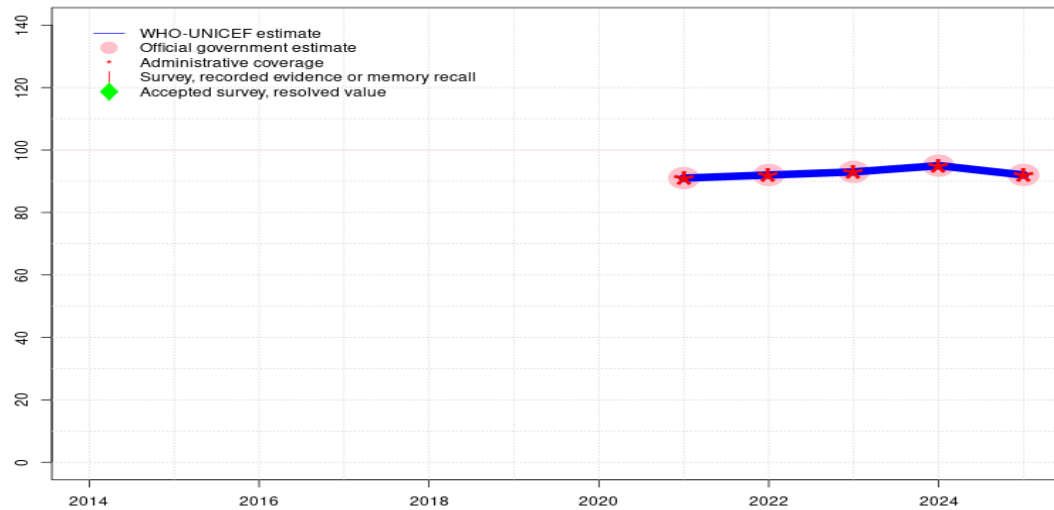
The WHO and UNICEF estimates of national immunization coverage (wuenic) are based on data and information that are of varying, and, in some instances, unknown quality. Beginning with the 2011 revision we describe the grade of confidence (GoC) we have in these estimates. As there is no underlying probability 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: 2024 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 - IPVC

SRB - IPVC



Description:

2025: Estimate informed by reported data. Vaccination in the private sector is not included. WHO and UNICEF are aware of the ongoing 2025 Multiple Indicator Cluster Survey and await final results. GoC=R+ D+

2024: Estimate informed by reported data. GoC=R+ D+

2023: Estimate informed by reported data. GoC=R+ D+

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

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

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Estimate	-	-	-	-	-	-	-	91	92	93	95	92
Estimate GoC	-	-	-	-	-	-	-	●●	●●	●●	●●	●●
Official	-	-	-	-	-	-	-	91	92	93	95	92
Administrative	-	-	-	-	-	-	-	91	92	93	95	92
Survey	-	-	-	-	-	-	-	-	-	-	-	-

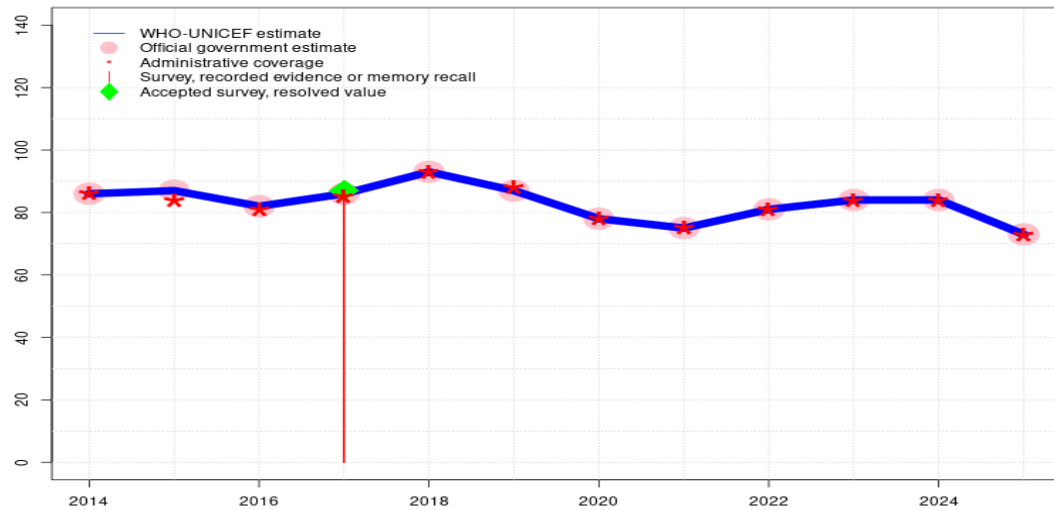
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- Estimate is supported by reported data [R+], coverage recalculated with an independent denominator from the World Population Prospects: 2024 revision from the UN Population Division (D+), and at least one supporting survey within 2 years [S+]. While 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 - MCV1

SRB - MCV1



Description:

2025: Estimate informed by reported data. Vaccination in the private sector is not included. WHO and UNICEF are aware of the ongoing 2025 Multiple Indicator Cluster Survey and await final results. Programme noted persistent delays in vaccinating children with the first dose of MMR. GoC=R+ D+

2024: Estimate informed by reported data. GoC=R+ D+

2023: Estimate informed by reported data. 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+

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Estimate	86	87	82	86	93	87	78	75	81	84	84	73
Estimate GoC	●●●	●●●	●●●	●●●	●●●	●●●	●●	●●	●●	●●	●●	●●
Official	86	87	82	86	93	87	78	75	81	84	84	73
Administrative	86	84	81	85	93	88	78	75	81	84	84	73
Survey	-	-	-	87	-	-	-	-	-	-	-	-

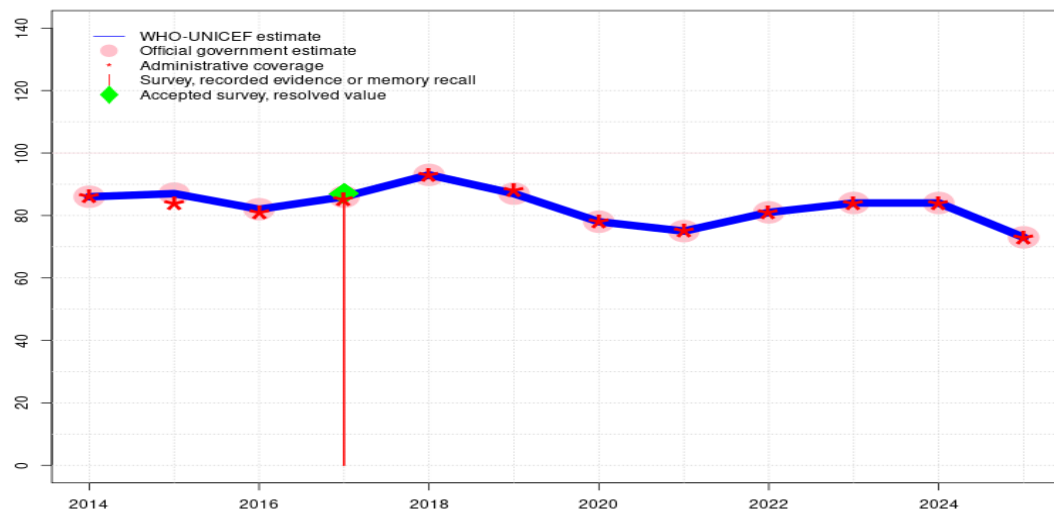
The WHO and UNICEF estimates of national immunization coverage (wuenic) are based on data and information that are of varying, and, in some instances, unknown quality. Beginning with the 2011 revision we describe the grade of confidence (GoC) we have in these estimates. As there is no underlying probability 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: 2024 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 - RCV1

SRB - RCV1



Description:

2025: Estimate based on estimated MCV1. Reported data excluded due to sudden change in coverage from 84 to 73 percent. Vaccination in the private sector is not included. WHO and UNICEF are aware of the ongoing 2025 Multiple Indicator Cluster Survey and await final results. Programme noted persistent delays in vaccinating children with the first dose of MMR. GoC=R+ D+

2024: Estimate based on estimated MCV1. GoC=R+ D+

2023: Estimate based on estimated MCV1. 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+

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Estimate	86	87	82	86	93	87	78	75	81	84	84	73
Estimate GoC	●●●	●●●	●●●	●●●	●●●	●●●	●●	●●	●●	●●	●●	●●
Official	86	87	82	86	93	87	78	75	81	84	84	73
Administrative	86	84	81	85	93	88	78	75	81	84	84	73
Survey	-	-	-	87	-	-	-	-	-	-	-	-

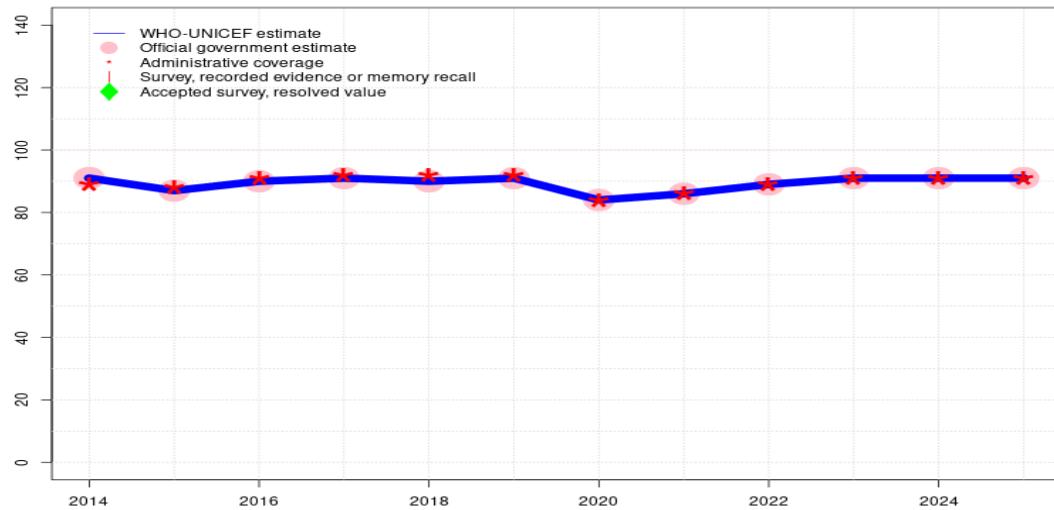
The WHO and UNICEF estimates of national immunization coverage (wuenic) are based on data and information that are of varying, and, in some instances, unknown quality. Beginning with the 2011 revision we describe the grade of confidence (GoC) we have in these estimates. As there is no underlying probability 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: 2024 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.

Serbia - MCV2

SRB - MCV2



Description:

2025: Estimate informed by reported data. Vaccination in the private sector is not included. WHO and UNICEF are aware of the ongoing 2025 Multiple Indicator Cluster Survey and await final results. GoC=R+ D+

2024: Estimate informed by reported data. GoC=R+ D+

2023: Estimate informed by reported data. 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+ D+

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

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Estimate	91	87	90	91	90	91	84	86	89	91	91	91
Estimate GoC	●●	●●	●●	●●	●●	●●	●●	●●	●●	●●	●●	●●
Official	91	87	90	91	90	91	84	86	89	91	91	91
Administrative	89	88	91	92	92	92	84	86	89	91	91	91
Survey	-	-	-	-	-	-	-	-	-	-	-	-

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: 2024 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

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 one or two years prior to the survey field work.

The survey results below present vaccination coverage estimates by antigen, confirmation method, and child's age at the time of the survey. Coverage based on **Recall** reflects information based upon a mother's or caregiver's memory. Coverage based on **Record** reflects information drawn from documented vaccination history in home- and/or facility-based records. **Evidence seen** reflects the percentage of children in the sample with documented evidence of vaccination history seen by the survey team.

2018 Serbia Multiple Indicator Cluster Survey 2019

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Evidence seen
BCG	Recall	19.3	12-23 m	365	68
BCG	Record	77.3	12-23 m	365	68
BCG	Record or Recall	96.6	12-23 m	365	68
BCG	Record or Recall<12m	96.4	12-23 m	365	68
DTP1	Recall	15.6	12-23 m	365	68
DTP1	Record	80.8	12-23 m	365	68
DTP1	Record or Recall	96.5	12-23 m	365	68
DTP1	Record or Recall<12m	94.8	12-23 m	365	68
DTP3	Recall	13.9	12-23 m	365	68
DTP3	Record	78	12-23 m	365	68
DTP3	Record or Recall	91.8	12-23 m	365	68
DTP3	Record or Recall<12m	91.3	12-23 m	365	68
HEPB1	Recall	15.1	12-23 m	365	68
HEPB1	Record	81.2	12-23 m	365	68
HEPB1	Record or Recall	96.3	12-23 m	365	68
HEPB1	Record or Recall<12m	96	12-23 m	365	68
HEPBB	Recall	16.2	12-23 m	365	68
HEPBB	Record	81.4	12-23 m	365	68
HEPBB	Record or Recall	97.6	12-23 m	365	68

HEPBB	Record or Recall<12m	97.6	12-23 m	365	68
HIB1	Recall	15.6	12-23 m	365	68
HIB1	Record	80.1	12-23 m	365	68
HIB1	Record or Recall	95.8	12-23 m	365	68
HIB1	Record or Recall<12m	94.1	12-23 m	365	68
HIB3	Recall	13.9	12-23 m	365	68
HIB3	Record	77.3	12-23 m	365	68
HIB3	Record or Recall	91.1	12-23 m	365	68
HIB3	Record or Recall<12m	90.6	12-23 m	365	68
IPV1	Recall	16.4	12-23 m	365	68
IPV1	Record	80.8	12-23 m	365	68
IPV1	Record or Recall	97.2	12-23 m	365	68
IPV1	Record or Recall<12m	95.5	12-23 m	365	68
PCV1	Recall	11.4	12-23 m	365	68
PCV1	Record	60	12-23 m	365	68
PCV1	Record or Recall	71.4	12-23 m	365	68
PCV1	Record or Recall<12m	70.9	12-23 m	365	68
PCVC	Recall	8.7	12-23 m	365	68
PCVC	Record	56.7	12-23 m	365	68
PCVC	Record or Recall	65.4	12-23 m	365	68
PCVC	Record or Recall<12m	64.2	12-23 m	365	68

2017 Serbia Multiple Indicator Cluster Survey 2019

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Evidence seen
BCG	Recall	16.4	24-35 m	384	-
BCG	Record	76.7	24-35 m	384	-
BCG	Record or Recall	93	24-35 m	384	-
BCG	Record or Recall<12m	92.5	24-35 m	384	-
DTP1	Recall	10.9	24-35 m	384	-
DTP1	Record	85.2	24-35 m	384	-
DTP1	Record or Recall	96	24-35 m	384	-
DTP1	Record or Recall<12m	95.4	24-35 m	384	-
DTP3	Recall	10.7	24-35 m	384	-
DTP3	Record	84	24-35 m	384	-
DTP3	Record or Recall	94.7	24-35 m	384	-
DTP3	Record or Recall<12m	89.8	24-35 m	384	-
HEPB1	Recall	12.2	24-35 m	384	-
HEPB1	Record	85.2	24-35 m	384	-

Serbia - Survey Details

HEPB1	Record or Recall	97.4	24-35 m	384	-	BCG	Record	80.3	12-23 m	-	87
HEPB1	Record or Recall<12m	97.4	24-35 m	384	-	BCG	Record or Recall	98	12-23 m	489	87
HEPB1	Record	12	24-35 m	384	-	BCG	Record or Recall<12m	98	12-23 m	489	87
HEPB1	Record	85.4	24-35 m	384	-	DTP1	Recall	6.4	12-23 m	-	87
HEPB1	Record or Recall	97.4	24-35 m	384	-	DTP1	Record	86.6	12-23 m	-	87
HEPB1	Record or Recall<12m	97.1	24-35 m	384	-	DTP1	Record or Recall	93.1	12-23 m	489	87
HIB1	Recall	10.9	24-35 m	384	-	DTP1	Record or Recall<12m	92.9	12-23 m	489	87
HIB1	Record	85.2	24-35 m	384	-	DTP3	Recall	5.1	12-23 m	-	87
HIB1	Record or Recall	96	24-35 m	384	-	DTP3	Record	83.9	12-23 m	-	87
HIB1	Record or Recall<12m	95.4	24-35 m	384	-	DTP3	Record or Recall	89	12-23 m	489	87
HIB3	Recall	10.7	24-35 m	384	-	DTP3	Record or Recall<12m	87.4	12-23 m	489	87
HIB3	Record	84	24-35 m	384	-	HEPB1	Recall	12.3	12-23 m	-	87
HIB3	Record or Recall	94.7	24-35 m	384	-	HEPB1	Record	86.2	12-23 m	-	87
HIB3	Record or Recall<12m	89.8	24-35 m	384	-	HEPB1	Record or Recall	98.5	12-23 m	489	87
IPV1	Recall	10.6	24-35 m	384	-	HEPB1	Record or Recall<12m	98.2	12-23 m	489	87
IPV1	Record	85.3	24-35 m	384	-	HEPB3	Recall	11	12-23 m	-	87
IPV1	Record or Recall	95.9	24-35 m	384	-	HEPB3	Record	82.2	12-23 m	-	87
IPV1	Record or Recall<12m	95.3	24-35 m	384	-	HEPB3	Record or Recall	93.2	12-23 m	489	87
MCV1	Recall	10.1	24-35 m	384	-	HEPB3	Record or Recall<12m	91.3	12-23 m	489	87
MCV1	Record	77.2	24-35 m	384	-	HEPBB	Recall	12.3	12-23 m	-	87
MCV1	Record or Recall	87.2	24-35 m	384	-	HEPBB	Record	86.2	12-23 m	-	87
MCV1	Record or Recall<12m	83.6	24-35 m	384	-	HEPBB	Record or Recall	98.5	12-23 m	489	87
PCV1	Recall	7.9	24-35 m	384	-	HEPBB	Record or Recall<12m	98.2	12-23 m	489	87
PCV1	Record	10.2	24-35 m	384	-	HIB1	Recall	6.7	12-23 m	-	87
PCV1	Record or Recall	18.1	24-35 m	384	-	HIB1	Record	85.3	12-23 m	-	87
PCV1	Record or Recall<12m	8.3	24-35 m	384	-	HIB1	Record or Recall	92	12-23 m	489	87
PCVC	Recall	8.3	24-35 m	384	-	HIB1	Record or Recall<12m	91.5	12-23 m	489	87
PCVC	Record	3.6	24-35 m	384	-	HIB3	Recall	5.6	12-23 m	-	87
PCVC	Record or Recall	11.8	24-35 m	384	-	HIB3	Record	77.1	12-23 m	-	87
PCVC	Record or Recall<12m	11.8	24-35 m	384	-	HIB3	Record or Recall	82.7	12-23 m	489	87
RCV1	Recall	10.1	24-35 m	384	-	HIB3	Record or Recall<12m	80.4	12-23 m	489	87
RCV1	Record	77.2	24-35 m	384	-	MCV1	Recall	12.2	24-35 m	-	-
RCV1	Record or Recall	87.2	24-35 m	384	-	MCV1	Record	82.3	24-35 m	-	-
RCV1	Record or Recall<12m	83.6	24-35 m	384	-	MCV1	Record or Recall	94.4	24-35 m	465	-

2013 Serbia Multiple Indicator Cluster Survey 2014

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Evidence seen
BCG	Recall	17.6	12-23 m	-	87

2012 Serbia Multiple Indicator Cluster Survey 2014

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Evidence seen
BCG	Record or Recall<12m	99	24-35 m	465	-

DTP1	Record or Recall<12m	90.5	24-35 m	465	-
DTP3	Record or Recall<12m	85.9	24-35 m	465	-
HEPB1	Record or Recall<12m	98.6	24-35 m	465	-
HEPBB	Record or Recall<12m	99	24-35 m	465	-
HIB1	Record or Recall<12m	90.6	24-35 m	465	-
HIB3	Record or Recall<12m	82.4	24-35 m	465	-
MCV1	Record or Recall<24m	93.4	24-35 m	465	-

2004 Serbia Multiple Indicator Cluster Survey 2005

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Evidence seen
BCG	Recall	30.4	18-29 m	782	-
BCG	Record	44.2	18-29 m	782	-
BCG	Record or Recall	74.5	18-29 m	782	-
BCG	Record or Recall<12m	74.1	18-29 m	782	-
DTP1	Recall	25.8	18-29 m	782	-
DTP1	Record	72.7	18-29 m	782	-
DTP1	Record or Recall	98.5	18-29 m	782	-
DTP1	Record or Recall<12m	97.1	18-29 m	782	-
DTP3	Recall	17.8	18-29 m	782	-
DTP3	Record	77.8	18-29 m	782	-
DTP3	Record or Recall	95.6	18-29 m	782	-

Further information and estimates for previous years are available at:
<https://data.unicef.org/topic/child-health/immunization/>
<https://immunizationdata.who.int/listing.html>

DTP3	Record or Recall<12m	89.7	18-29 m	782	-
MCV1	Recall	22.5	18-29 m	782	-
MCV1	Record	64.1	18-29 m	782	-
MCV1	Record or Recall	86.6	18-29 m	782	-
MCV1	Record or Recall<12m	84.1	18-29 m	782	-

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

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Evidence seen
BCG	Record or Recall<12m	100	12-23 m	341	76
DTP1	Record or Recall<12m	97.6	12-23 m	341	76
DTP3	Record or Recall<12m	94.9	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	Evidence seen
MCV1	Record or Recall	89.2	24-35 m	341	-