

**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.  
\* 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.

**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. 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.

**HEPB3:** 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.

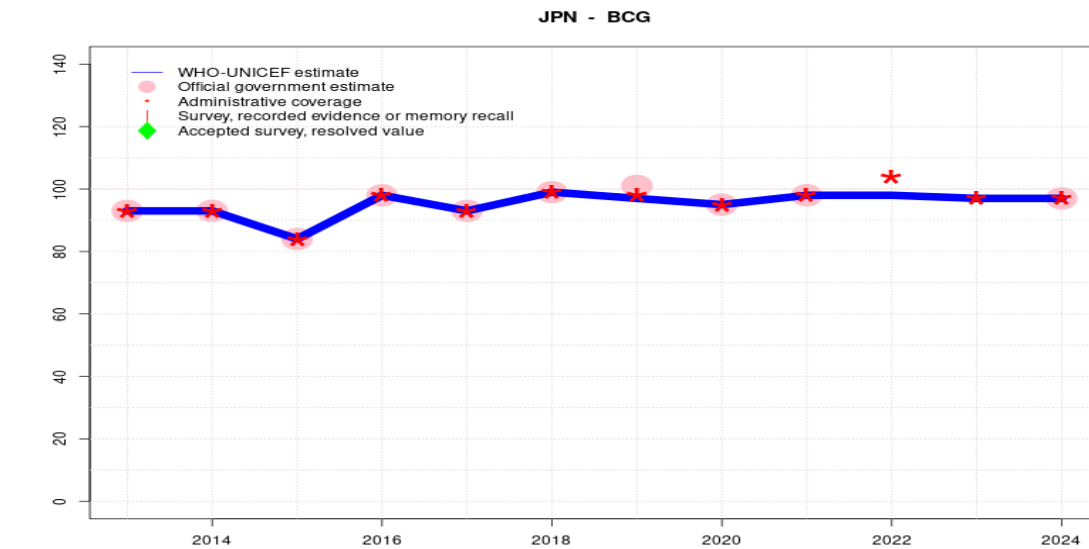
**PCV3:** percentage of surviving infants who received the 3rd dose of pneumococcal conjugate vaccine. In countries where the national schedule recommends two doses during infancy and a booster dose at 12 months or later based on the epidemiology of disease in the country, coverage estimates may reflect the percentage of surviving infants who received two doses of PCV prior to the 1st birthday if coverage for the booster dose is not reported.

**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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# Japan - BCG



## Description:

- 2024: Estimate informed by reported data. No nationally representative independent assessment for the most recent 5 annual birth cohorts. WHO and UNICEF recommend a high quality independent assessment to verify reported levels of coverage. GoC=R+ D+
- 2023: Estimate informed by reported administrative data. Estimate challenged by: D-
- 2022: Estimate informed by interpolation between reported data. Reported data excluded because 104 percent greater than 100 percent. Estimate challenged by: D-
- 2021: Estimate informed by reported data. Estimate challenged by: D-
- 2020: Estimate informed by reported data. Estimate challenged by: D-
- 2019: Estimate informed by interpolation between reported data. Reported data excluded because 101 percent greater than 100 percent. Estimate challenged by: D-
- 2018: Estimate informed by reported data. Reported coverage data for 2018 reflects the country data from 2016. GoC=R+ D+
- 2017: Estimate informed by reported data. Country notes that 2017 data reflect the fiscal year of April 2016 to March 2017. 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+
- 2013: Estimate informed by reported data. GoC=R+ D+

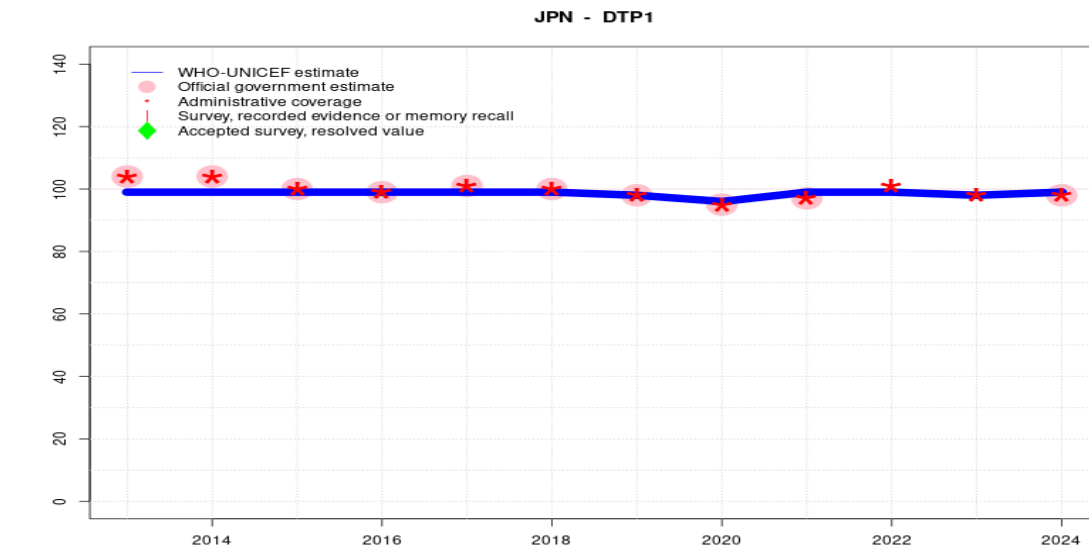
	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Estimate	93	93	84	98	93	99	97	95	98	98	97	97
Estimate GoC	●●	●●	●●	●●	●●	●●	●	●	●	●	●	●●
Official	93	93	84	98	93	99	101	95	98	-	-	97
Administrative	93	93	84	98	93	99	98	95	98	104	97	97
Survey	-	-	-	-	-	-	-	-	-	-	-	-

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.

# Japan - DTP1



	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Estimate	99	99	99	99	99	99	98	96	99	99	98	99
Estimate GoC	●	●	●	●	●	●	●	●	●	●	●	●
Official	104	104	100	99	101	100	98	95	97	-	-	98
Administrative	104	104	100	99	101	100	98	95	97	101	98	98
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.

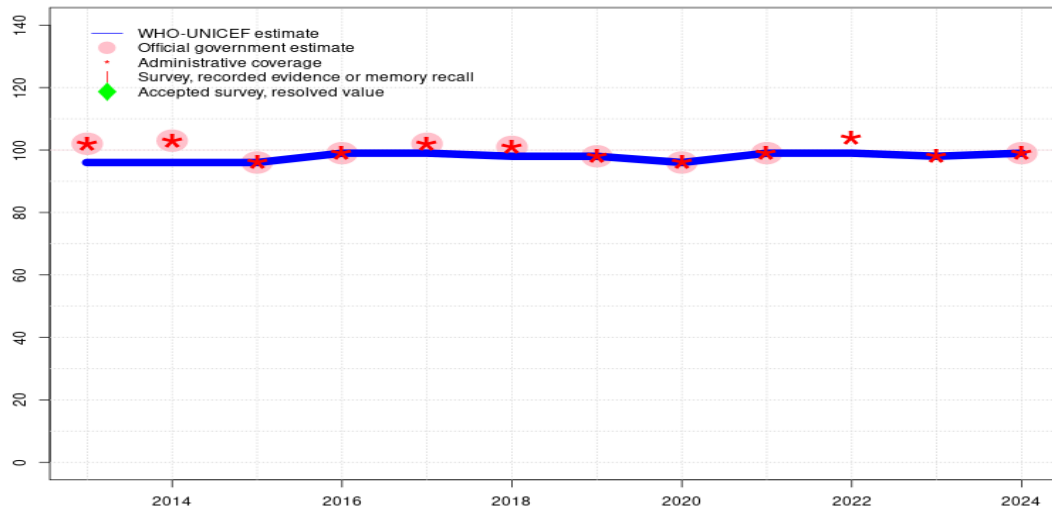
In all cases these estimates should be used with caution and should be assessed in light of the objective for which they are being used.

## Description:

- 2024: Estimate based on DTP3 coverage of 99. No nationally representative independent assessment for the most recent 5 annual birth cohorts. WHO and UNICEF recommend a high quality independent assessment to verify reported levels of coverage. Estimate challenged by: R-
- 2023: Estimate based on DTP3 coverage of 98. Estimate of 98 percent changed from previous revision value of 99 percent. Estimate challenged by: D-R-
- 2022: Estimate based on DTP3 coverage of 99. Reported data excluded because 101 percent greater than 100 percent. Estimate challenged by: D-R-
- 2021: Estimate based on DTP3 coverage of 99. Estimate challenged by: R-
- 2020: Estimate based on DTP3 coverage of 96. Estimate of 96 percent changed from previous revision value of 98 percent. Estimate challenged by: D-R-
- 2019: Estimate based on DTP3 coverage of 98. Estimate of 98 percent changed from previous revision value of 99 percent. Estimate challenged by: D-R-
- 2018: Estimated coverage based on estimated DTP3 coverage. Reported coverage data for 2018 reflects the country data from 2016. Estimate challenged by: R-
- 2017: Estimated coverage based on estimated DTP3 coverage. Reported data excluded because 101 percent greater than 100 percent. Country notes that 2017 data reflect the fiscal year of April 2016 to March 2017. Estimate challenged by: R-
- 2016: Estimated coverage based on estimated DTP3 coverage. Estimate challenged by: R-
- 2015: Estimated coverage based on estimated DTP3 coverage. Estimate of 99 percent changed from previous revision value of 98 percent. Estimate challenged by: R-
- 2014: Estimated coverage based on estimated DTP3 coverage. Reported data excluded because 104 percent greater than 100 percent. Estimate of 99 percent changed from previous revision value of 98 percent. Estimate challenged by: D-R-
- 2013: Estimated coverage based on estimated DTP3 coverage. Reported data excluded because 104 percent greater than 100 percent. Estimate of 99 percent changed from previous revision value of 98 percent. Estimate challenged by: R-

# Japan - DTP3

JPN - DTP3



	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Estimate	96	96	96	99	99	98	98	96	99	99	98	99
Estimate GoC	●	●	●●	●●	●●	●	●	●	●	●	●	●●
Official	102	103	96	99	102	101	98	96	99	-	-	99
Administrative	102	103	96	99	102	101	98	96	99	104	98	99
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.

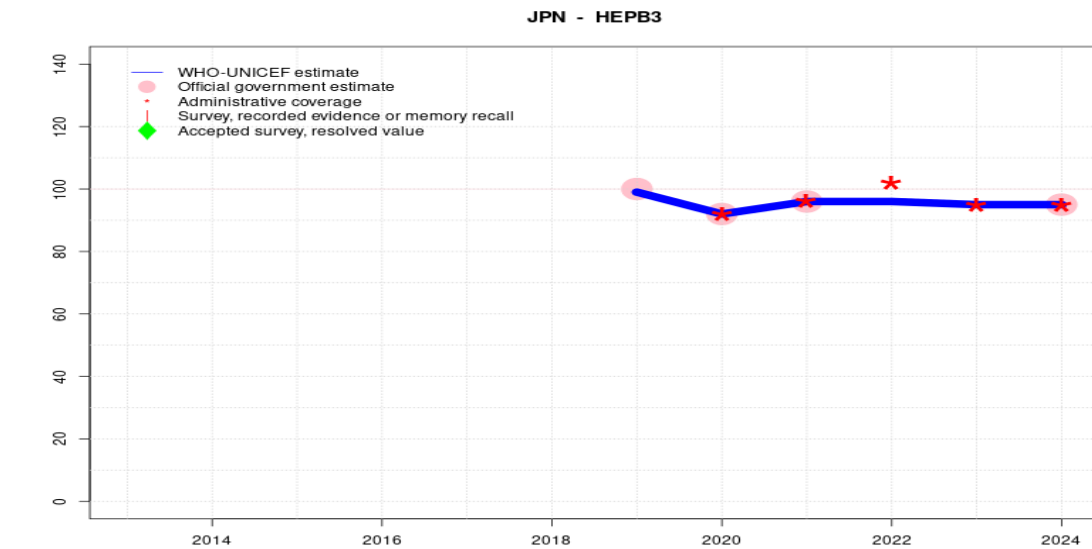
- Estimate is supported by reported data [R+], coverage recalculated with an independent denominator from the World Population Prospects: 2024 revision from the UN Population Division (D+), and at least one supporting survey within 2 years [S+]. While well supported, the estimate still carries a risk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

## Description:

- 2024: Estimate informed by reported data. No nationally representative independent assessment for the most recent 5 annual birth cohorts. WHO and UNICEF recommend a high quality independent assessment to verify reported levels of coverage. GoC=R+ D+
- 2023: Estimate informed by reported administrative data. Estimate challenged by: D-
- 2022: Estimate informed by interpolation between reported data. Reported data excluded because 104 percent greater than 100 percent. Estimate challenged by: D-
- 2021: Estimate informed by reported data. Estimate challenged by: D-
- 2020: Estimate informed by reported data. Estimate challenged by: D-
- 2019: Estimate informed by reported data. Estimate challenged by: D-
- 2018: Estimate informed by interpolation between reported data. Reported data excluded because 101 percent greater than 100 percent. Reported coverage data for 2018 reflects the country data from 2016. Estimate challenged by: D-
- 2017: Estimate informed by interpolation between reported data. Reported data excluded because 102 percent greater than 100 percent. Country notes that 2017 data reflect the fiscal year of April 2016 to March 2017. 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 interpolation between reported data. Reported data excluded because 103 percent greater than 100 percent. Estimate challenged by: D-
- 2013: Estimate informed by interpolation between reported data. Reported data excluded because 102 percent greater than 100 percent. Estimate challenged by: D-

# Japan - HEPB3



## Description:

- 2024: Estimate informed by reported data. No nationally representative independent assessment for the most recent 5 annual birth cohorts. WHO and UNICEF recommend a high quality independent assessment to verify reported levels of coverage. GoC=R+ D+
- 2023: Estimate informed by reported administrative data. Estimate challenged by: D-
- 2022: Estimate informed by interpolation between reported data. Reported data excluded because 102 percent greater than 100 percent. Estimate challenged by: D-
- 2021: Estimate informed by reported data. GoC=R+ D+
- 2020: Estimate informed by reported data. Estimate challenged by: D-
- 2019: Estimate informed by reported data. Universal Hep B vaccination (with monovalent Hep B vaccine) introduced in 2016. Reporting started in 2019. GoC=R+

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Estimate	-	-	-	-	-	-	99	92	96	96	95	95
Estimate GoC	-	-	-	-	-	-	●●	●	●●	●	●	●●
Official	-	-	-	-	-	-	100	92	96	-	-	95
Administrative	-	-	-	-	-	-	-	92	96	102	95	95
Survey	-	-	-	-	-	-	-	-	-	-	-	-

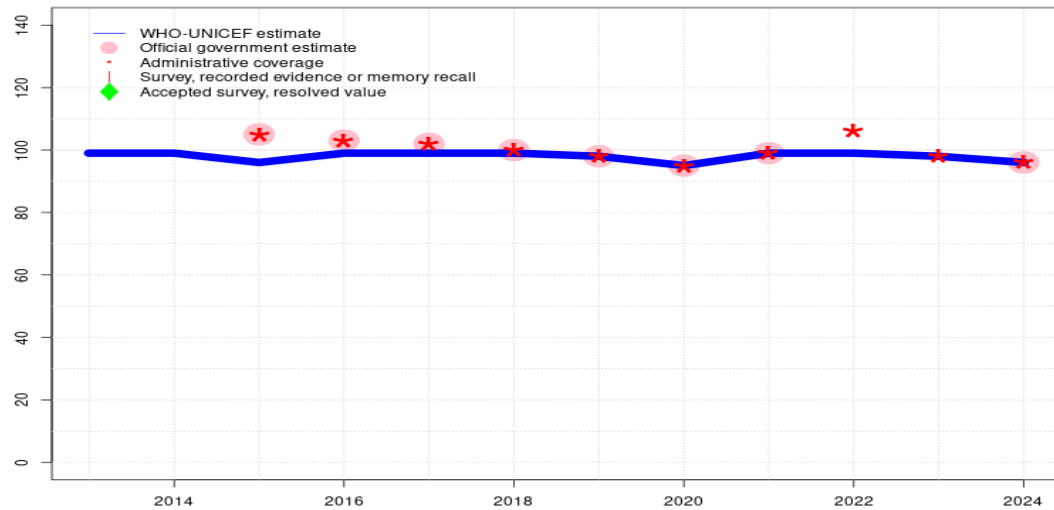
The WHO and UNICEF estimates of national immunization coverage (wuenic) are based on data and information that are of varying, and, in some instances, unknown quality. Beginning with the 2011 revision we describe the grade of confidence (GoC) we have in these estimates. As there is no underlying probability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

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# Japan - Hib3

JPN - Hib3



	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Estimate	99	99	96	99	99	99	98	95	99	99	98	96
Estimate GoC	•	•	•	•	•	••	•	•	••	•	•	••
Official	-	-	105	103	102	100	98	95	99	-	-	96
Administrative	-	-	105	103	102	100	98	95	99	106	98	96
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.

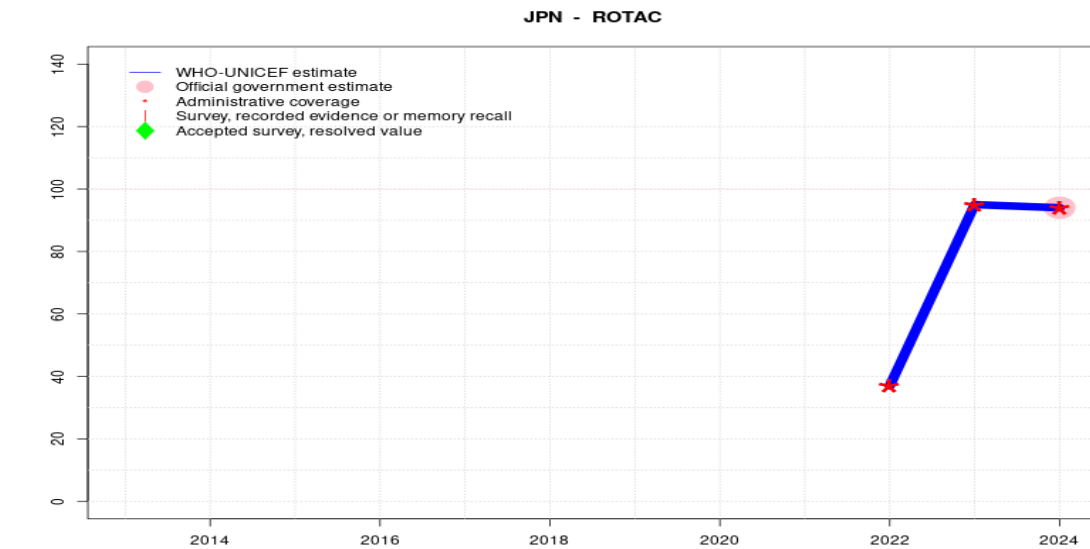
- Estimate is supported by reported data [R+], coverage recalculated with an independent denominator from the World Population Prospects: 2024 revision from the UN Population Division (D+), and at least one supporting survey within 2 years [S+]. While well supported, the estimate still carries a risk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

## Description:

- 2024: Estimate informed by reported data. No nationally representative independent assessment for the most recent 5 annual birth cohorts. WHO and UNICEF recommend a high quality independent assessment to verify reported levels of coverage. GoC=R+ D+
- 2023: Estimate informed by reported administrative data. Estimate challenged by: D-
- 2022: Estimate informed by interpolation between reported data. Reported data excluded because 106 percent greater than 100 percent. Estimate challenged by: D-
- 2021: Estimate informed by reported data. GoC=R+ D+
- 2020: Estimate informed by reported data. Estimate challenged by: D-
- 2019: Estimate informed by reported data. Estimate challenged by: D-
- 2018: Estimate informed by reported data. Reported coverage data for 2018 reflects the country data from 2016. GoC=R+ D+
- 2017: Estimate based on estimated DTP3. Reported data excluded because 102 percent greater than 100 percent. Country notes that 2017 data reflect the fiscal year of April 2016 to March 2017. Estimate challenged by: R-
- 2016: Estimate based on estimated DTP3. Reported data excluded because 103 percent greater than 100 percent. Estimate challenged by: R-
- 2015: Hib vaccine introduced in 2011. Reporting started in 2015. Estimate based on estimated DTP3. Reported data excluded because 105 percent greater than 100 percent. Estimate challenged by: D-R-
- 2014: Estimate informed by extrapolation from reported data. GoC=No accepted empirical data
- 2013: Estimate informed by extrapolation from reported data. GoC=No accepted empirical data

# Japan - ROTAC



## Description:

2024: Estimate informed by reported data. No nationally representative independent assessment for the most recent 5 annual birth cohorts. WHO and UNICEF recommend a high quality independent assessment to verify reported levels of coverage. GoC=R+ D+

2023: Estimate informed by reported administrative data. Estimate challenged by: D-

2022: Estimate informed by reported administrative data. Vaccine introduced in 2020. Reporting started in 2022. GoC=R+ D+

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Estimate	-	-	-	-	-	-	-	-	-	37	95	94
Estimate GoC	-	-	-	-	-	-	-	-	-	●●	●	●●
Official	-	-	-	-	-	-	-	-	-	-	-	94
Administrative	-	-	-	-	-	-	-	-	-	37	95	94
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.

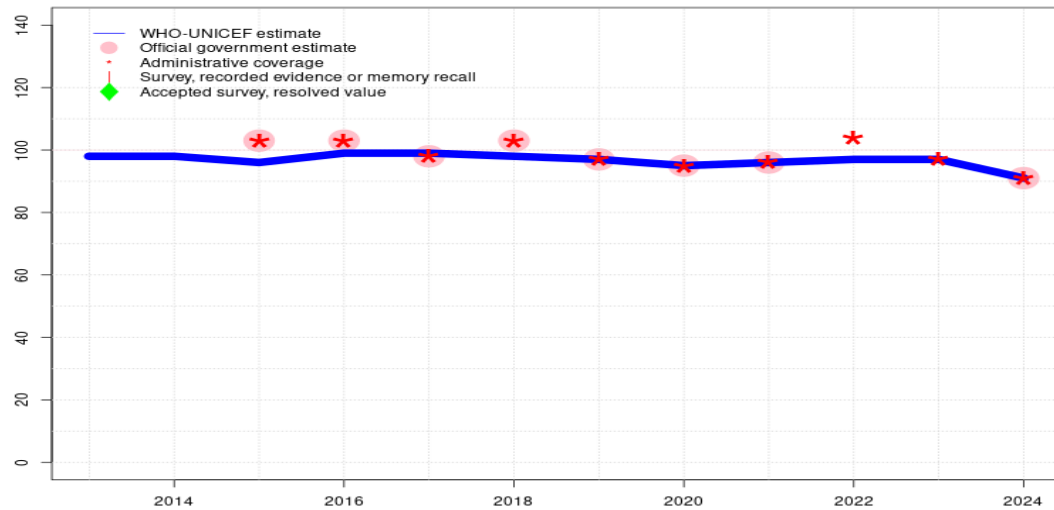
- Estimate is supported by reported data [R+], coverage recalculated with an independent denominator from the World Population Prospects: 2024 revision from the UN Population Division (D+), and at least one supporting survey within 2 years [S+]. While well supported, the estimate still carries a risk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

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# Japan - PCV3

JPN - PCV3



	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Estimate	98	98	96	99	99	98	97	95	96	97	97	91
Estimate GoC	•	•	•	•	•	•	•	•	•	•	•	••
Official	-	-	103	103	98	103	97	95	96	-	-	91
Administrative	-	-	103	103	98	103	97	95	96	104	97	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.

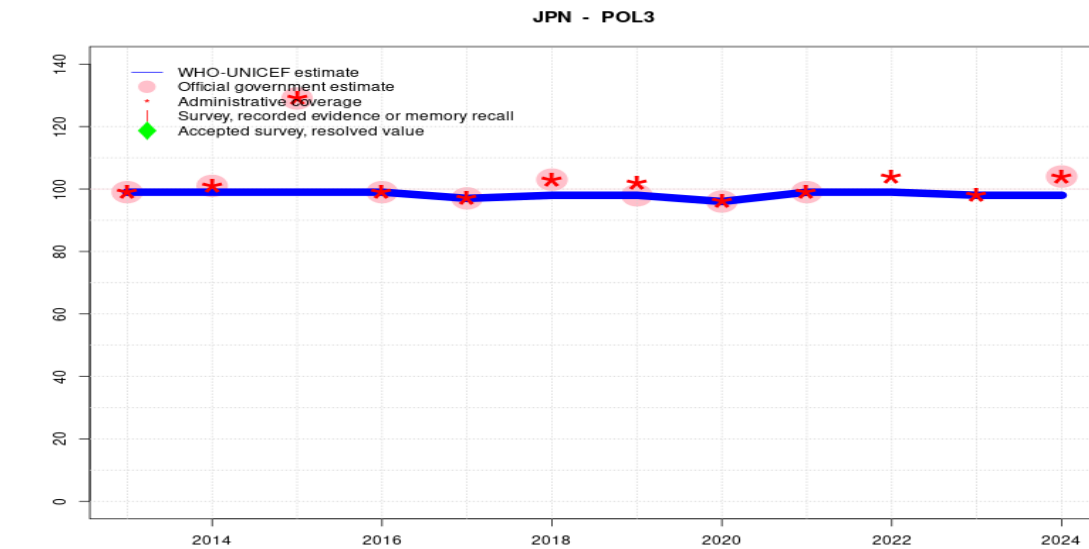
- Estimate is supported by reported data [R+], coverage recalculated with an independent denominator from the World Population Prospects: 2024 revision from the UN Population Division (D+), and at least one supporting survey within 2 years [S+]. While well supported, the estimate still carries a risk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

## Description:

- 2024: Estimate informed by reported data. No nationally representative independent assessment for the most recent 5 annual birth cohorts. WHO and UNICEF recommend a high quality independent assessment to verify reported levels of coverage. GoC=R+ D+
- 2023: Estimate informed by reported administrative data. Estimate challenged by: D-
- 2022: Estimate informed by interpolation between reported data. Reported data excluded because 104 percent greater than 100 percent. Estimate challenged by: D-
- 2021: Estimate informed by reported data. Estimate challenged by: D-
- 2020: Estimate informed by reported data. Estimate challenged by: D-
- 2019: Estimate informed by reported data. Estimate challenged by: D-
- 2018: Estimate informed by interpolation between reported data. Reported data excluded because 103 percent greater than 100 percent. Reported coverage data for 2018 reflects the country data from 2016. Estimate challenged by: D-
- 2017: Estimate based on estimated DTP3. Country notes that 2017 data reflect the fiscal year of April 2016 to March 2017. Estimate challenged by: R-
- 2016: Estimate informed by estimated DTP3 coverage. Reported data excluded because 103 percent greater than 100 percent. Estimate challenged by: R-
- 2015: Pneumococcal conjugate vaccine introduced in 2010. Reporting started in 2015. Estimate based on estimated DTP3. Reported data excluded because 103 percent greater than 100 percent. Estimate challenged by: D-R-
- 2014: Estimate informed by extrapolation from reported data. GoC=No accepted empirical data
- 2013: Estimate informed by extrapolation from reported data. GoC=No accepted empirical data

# Japan - POL3



	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Estimate	99	99	99	99	97	98	98	96	99	99	98	98
Estimate GoC	●●	●●	●	●●	●●	●	●	●	●	●	●	●●
Official	99	101	129	99	97	103	98	96	99	-	-	104
Administrative	99	101	129	99	97	103	102	96	99	104	98	104
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.

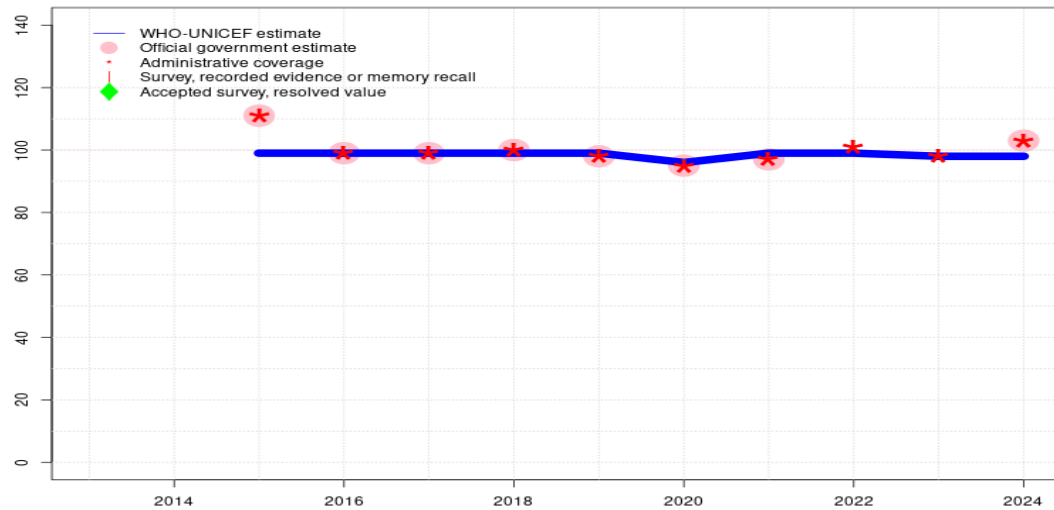
In all cases these estimates should be used with caution and should be assessed in light of the objective for which they are being used.

## Description:

- 2024: Estimate based on extrapolation from data reported by national government. Reported data excluded because 104 percent greater than 100 percent. No nationally representative independent assessment for the most recent 5 annual birth cohorts. WHO and UNICEF recommend a high quality independent assessment to verify reported levels of coverage. GoC=R+ D+
- 2023: Estimate informed by reported administrative data. Estimate challenged by: D-
- 2022: Estimate informed by interpolation between reported data. Reported data excluded because 104 percent greater than 100 percent. Estimate challenged by: D-
- 2021: Estimate informed by reported data. Estimate challenged by: D-
- 2020: Estimate informed by reported data. Estimate challenged by: D-
- 2019: Estimate informed by reported data. Estimate challenged by: D-
- 2018: Estimate informed by interpolation between reported data. Reported data excluded because 103 percent greater than 100 percent. Reported coverage data for 2018 reflects the country data from 2016. Estimate challenged by: D-
- 2017: Estimate informed by reported data. Country notes that 2017 data reflect the fiscal year of April 2016 to March 2017. GoC=R+ D+
- 2016: Estimate informed by reported data. GoC=R+ D+
- 2015: Estimate informed by interpolation between reported data. Reported data excluded because 129 percent greater than 100 percent. Reported data excluded due to an increase from 101 percent to 129 percent with decrease to 99 percent. Estimate challenged by: D-
- 2014: Estimate informed by interpolation between reported data. Reported data excluded because 101 percent greater than 100 percent. GoC=R+ D+
- 2013: Estimate informed by reported data. GoC=R+ D+

# Japan - IPV1

JPN - IPV1



	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Estimate	-	-	99	99	99	99	99	96	99	99	98	98
Estimate GoC	-	-	•	•	•	•	•	•	•	•	•	••
Official	-	-	111	99	99	100	98	95	97	-	-	103
Administrative	-	-	111	99	99	100	98	95	97	101	98	103
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.

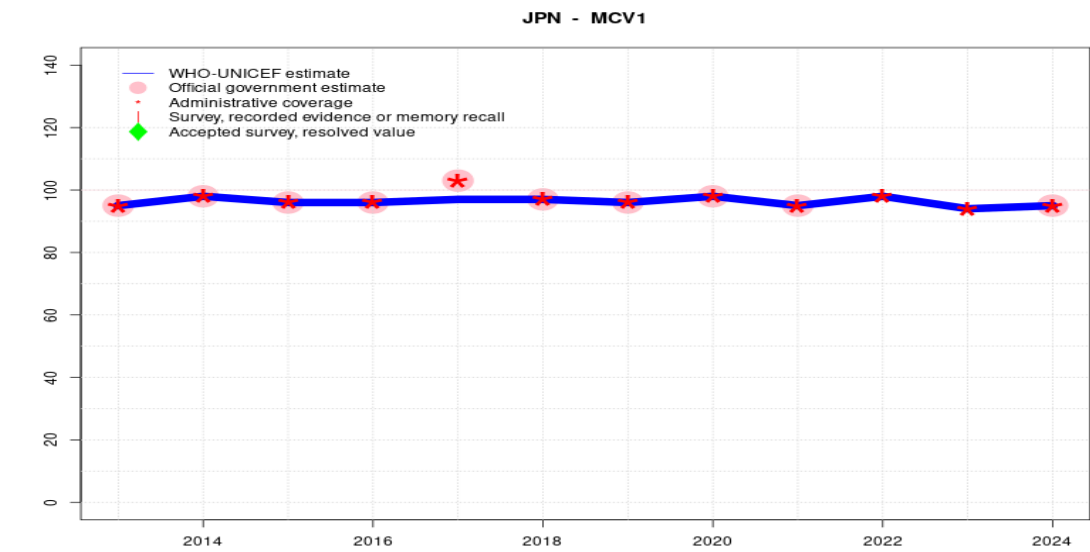
- Estimate is supported by reported data [R+], coverage recalculated with an independent denominator from the World Population Prospects: 2024 revision from the UN Population Division (D+), and at least one supporting survey within 2 years [S+]. While well supported, the estimate still carries a risk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

## Description:

- 2024: Estimate informed by extrapolation from reported data. Reported data excluded because 103 percent greater than 100 percent. No nationally representative independent assessment for the most recent 5 annual birth cohorts. WHO and UNICEF recommend a high quality independent assessment to verify reported levels of coverage. GoC=R+ D+
- 2023: Estimate informed by reported administrative data. Estimate challenged by: D-
- 2022: Estimated coverage informed by DTP1 coverage. Reported data excluded because 101 percent greater than 100 percent. Estimate of 99 percent changed from previous revision value of 98 percent. Estimate challenged by: D-R-
- 2021: Estimated coverage informed by DTP1 coverage. Estimate of 99 percent changed from previous revision value of 97 percent. Estimate challenged by: R-
- 2020: Estimated coverage informed by DTP1 coverage. Estimate of 96 percent changed from previous revision value of 95 percent. Estimate challenged by: D-R-
- 2019: Estimate informed by estimated DTP1. Estimate of 99 percent changed from previous revision value of 98 percent. Estimate challenged by: D-R-
- 2018: Estimate informed by estimated DTP1. Reported coverage data for 2018 reflects the country data from 2016. Estimate challenged by: D-R-
- 2017: Estimate informed by estimated DTP1. Country notes that 2017 data reflect the fiscal year of April 2016 to March 2017. Estimate challenged by: R-
- 2016: Estimate informed by estimated DTP1. Estimate challenged by: R-
- 2015: Inactivated polio vaccine introduced in 2012 as DTaP-IPV. Reporting started in 2015. Estimate informed by estimated DTP1. Reported data excluded because 111 percent greater than 100 percent. Estimate of 99 percent changed from previous revision value of 96 percent. Estimate challenged by: D-R-

# Japan - MCV1



## Description:

- 2024: Estimate informed by reported data. No nationally representative independent assessment for the most recent 5 annual birth cohorts. WHO and UNICEF recommend a high quality independent assessment to verify reported levels of coverage. GoC=R+ D+
- 2023: Estimate informed by reported administrative data. Estimate challenged by: D-
- 2022: Estimate informed by reported administrative data. Estimate challenged by: D-
- 2021: Estimate informed by reported data. Estimate challenged by: D-
- 2020: Estimate informed by reported data. Estimate challenged by: D-
- 2019: Estimate informed by reported data. Estimate challenged by: D-
- 2018: Estimate informed by reported data. Reported coverage data for 2018 reflects the country data from 2016. Estimate challenged by: D-
- 2017: Estimate informed by interpolation between reported data. Reported data excluded because 103 percent greater than 100 percent. Country notes that 2017 data reflect the fiscal year of April 2016 to March 2017. 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+
- 2013: Estimate informed by reported data. GoC=R+ D+

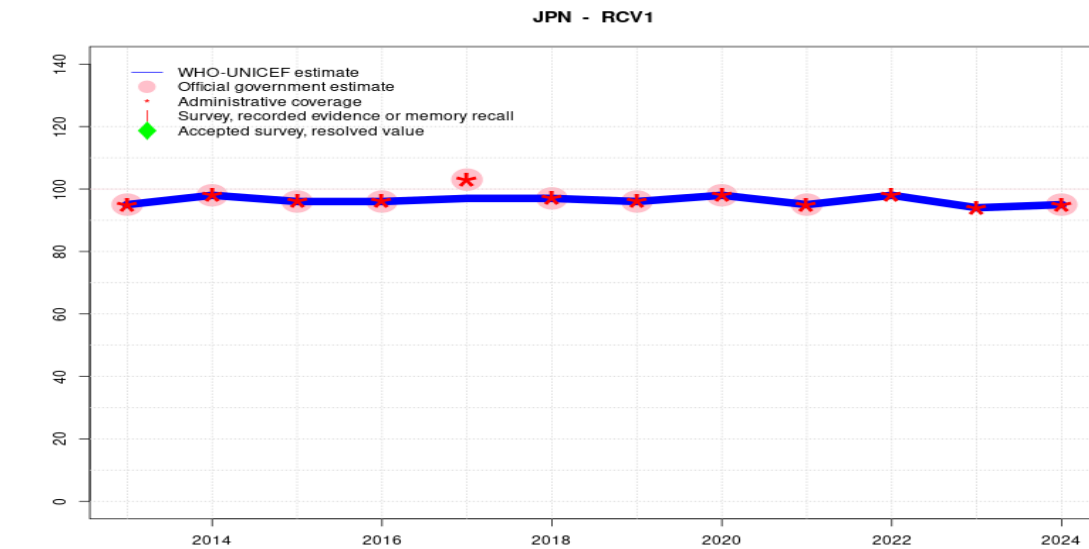
	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Estimate	95	98	96	96	97	97	96	98	95	98	94	95
Estimate GoC	●●	●●	●●	●●	●●	●	●	●	●	●	●	●●
Official	95	98	96	96	103	97	96	98	95	-	-	95
Administrative	95	98	96	96	103	97	96	98	95	98	94	95
Survey	-	-	-	-	-	-	-	-	-	-	-	-

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.

# Japan - RCV1



## Description:

2024: Estimate based on estimated MCV1. No nationally representative independent assessment for the most recent 5 annual birth cohorts. WHO and UNICEF recommend a high quality independent assessment to verify reported levels of coverage. GoC=R+ D+

2023: Estimate based on estimated MCV1. Estimate challenged by: D-

2022: Estimate based on estimated MCV1. Estimate challenged by: D-

2021: Estimate based on estimated MCV1. Estimate challenged by: D-

2020: Estimate based on estimated MCV1. Estimate challenged by: D-

2019: Estimate based on estimated MCV1. Estimate challenged by: D-

2018: Estimate based on estimated MCV1. Reported coverage data for 2018 reflects the country data from 2016. Estimate challenged by: D-

2017: Estimate based on estimated MCV1. Reported data excluded because 103 percent greater than 100 percent. Country notes that 2017 data reflect the fiscal year of April 2016 to March 2017. GoC=R+ D+

2016: Estimate based on estimated MCV1. GoC=R+ D+

2015: Estimate based on estimated MCV1. GoC=R+ D+

2014: Estimate based on estimated MCV1. GoC=R+ D+

2013: Estimate based on estimated MCV1. GoC=R+ D+

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Estimate	95	98	96	96	97	97	96	98	95	98	94	95
Estimate GoC	●●	●●	●●	●●	●●	●	●	●	●	●	●	●●
Official	95	98	96	96	103	97	96	98	95	-	-	95
Administrative	95	98	96	96	103	97	96	98	95	98	94	95
Survey	-	-	-	-	-	-	-	-	-	-	-	-

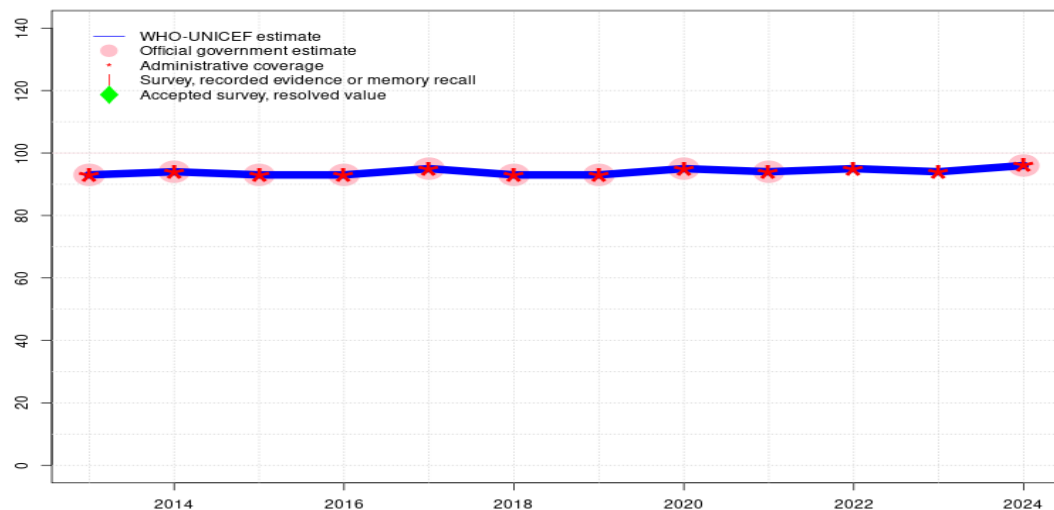
The WHO and UNICEF estimates of national immunization coverage (wuenic) are based on data and information that are of varying, and, in some instances, unknown quality. Beginning with the 2011 revision we describe the grade of confidence (GoC) we have in these estimates. As there is no underlying probability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

# Japan - MCV2

JPN - MCV2



## Description:

2024: Estimate informed by reported data. No nationally representative independent assessment for the most recent 5 annual birth cohorts. WHO and UNICEF recommend a high quality independent assessment to verify reported levels of coverage. Estimate challenged by: D-

2023: Estimate informed by reported administrative data. Estimate challenged by: D-

2022: Estimate informed by reported administrative data. Estimate challenged by: D-

2021: Estimate informed by reported data. Estimate challenged by: D-

2020: Estimate informed by reported data. Estimate challenged by: D-

2019: Estimate informed by reported data. Estimate challenged by: D-

2018: Estimate informed by reported data. Reported coverage data for 2018 reflects the country data from 2016. Estimate challenged by: D-

2017: Estimate informed by reported data. Country notes that 2017 data reflect the fiscal year of April 2016 to March 2017. Estimate challenged by: D-

2016: Estimate informed by reported data. Estimate challenged by: D-

2015: Estimate informed by reported data. Estimate challenged by: D-

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

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

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Estimate	93	94	93	93	95	93	93	95	94	95	94	96
Estimate GoC	●●	●●	●	●	●	●	●	●	●	●	●	●
Official	93	94	93	93	95	93	93	95	94	-	-	96
Administrative	93	94	93	93	95	93	93	95	94	95	94	96
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.

Further information and estimates for previous years are available at:

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

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