

Iran (Islamic Republic of): WHO and UNICEF estimates of immunization coverage: 2024 revision

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.

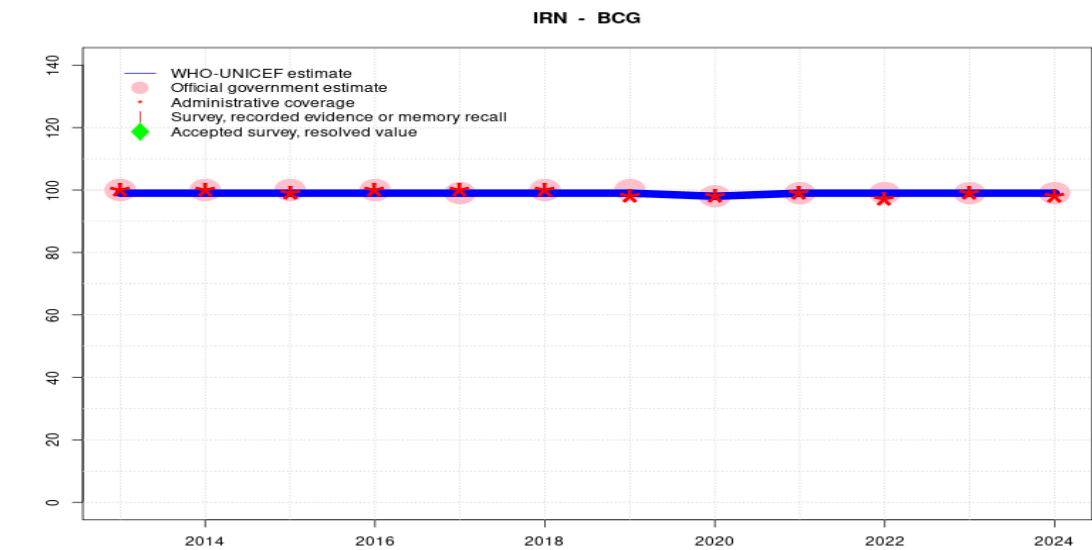
PCV3: percentage of surviving infants who received the 3rd dose of pneumococcal conjugate vaccine. In countries where the national schedule recommends two doses during infancy and a booster dose at 12 months or later based on the epidemiology of disease in the country, coverage estimates may reflect 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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Iran (Islamic Republic of) - BCG



	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Estimate	99	99	99	99	99	99	99	98	99	99	99	99
Estimate GoC	●●	●●	●●	●●	●●	●●	●●	●●	●●	●	●●	●
Official	100	100	100	100	99	100	100	98	99	99	99	99
Administrative	100	100	99	100	100	100	98	98	99	97	99	98
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.
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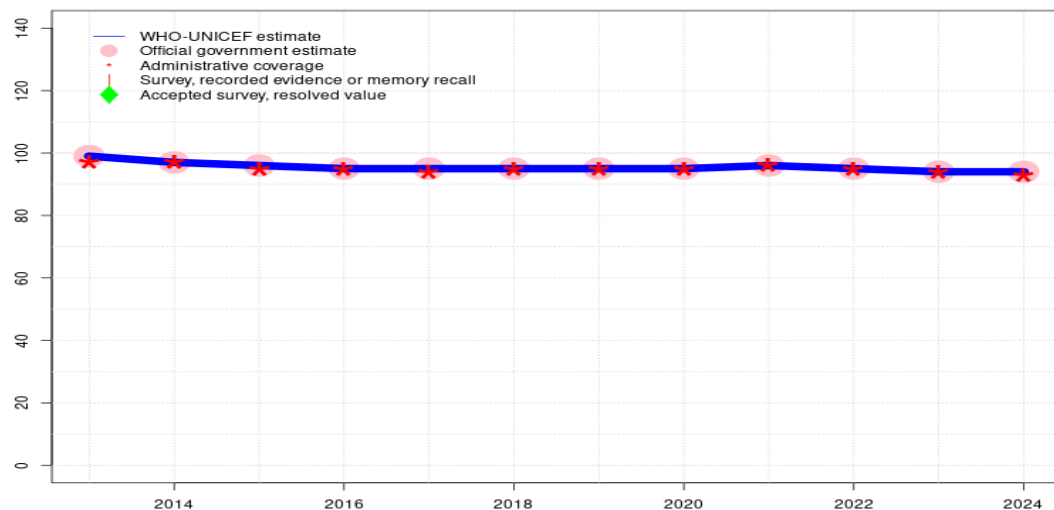
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Description:

- 2024: Estimate informed by reported data. WHO and UNICEF are aware of plans for a 2025 vaccination coverage survey and await final results. Estimate challenged by: D-
- 2023: Estimate informed by reported data. GoC=R+ D+
- 2022: Estimate informed by reported data. The National Centre of Statistics conducts a national census every 5 years. Declines in reported number of doses administered since 2017 are largely not reflected in reported coverage levels due in part to declines in the reported target population. Country notes a dramatic decline in annual births. From 2017 to 2022 the reported target population has decreased 30 percent. Estimate challenged by: D-
- 2021: Estimate informed by reported data. Declines in reported number of doses administered since 2017 are largely not reflected in reported coverage levels due in part to declines in the reported target population. GoC=R+ D+
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- 2018: Estimate informed by reported data. GoC=R+ D+
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- 2014: Estimate informed by reported data. GoC=R+ D+
- 2013: Estimate informed by reported data. GoC=R+ D+

Iran (Islamic Republic of) - HEPBB

IRN - HEPBB



	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Estimate	99	97	96	95	95	95	95	95	96	95	94	94
Estimate GoC	●●	●●	●●	●●	●●	●●	●●	●●	●●	●●	●●	●
Official	99	97	96	95	95	95	95	95	96	95	94	94
Administrative	97	97	95	95	94	95	95	95	96	95	94	93
Survey	-	-	-	-	-	-	-	-	-	-	-	-

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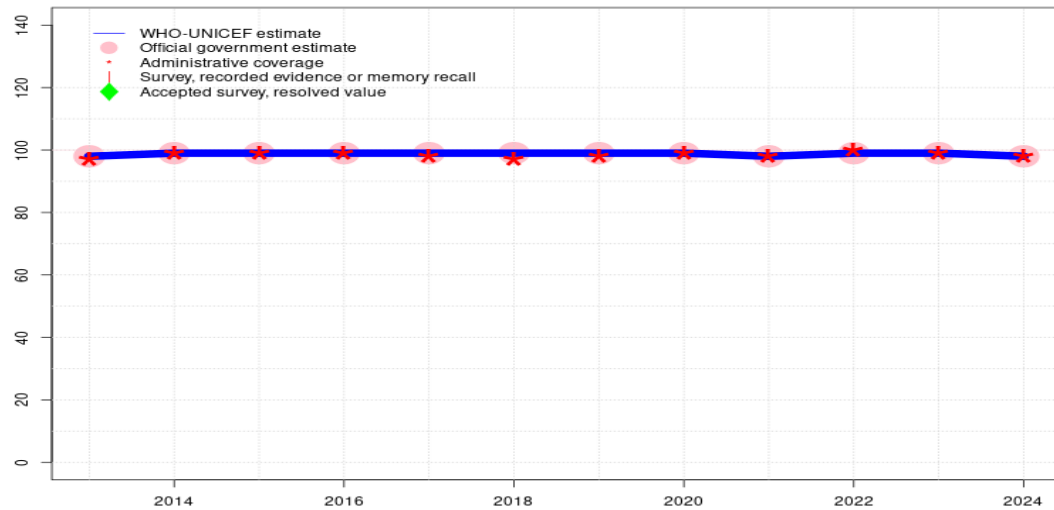
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- 2018: Estimate informed by reported data. GoC=R+ D+
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- 2016: Estimate informed by reported data. Survey results for the 2016 birth cohort support high levels of reported vaccination coverage. GoC=R+ 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+

Iran (Islamic Republic of) - DTP1

IRN - DTP1



	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Estimate	98	99	99	99	99	99	99	99	98	99	99	98
Estimate GoC	●●	●●	●●	●●	●●	●●	●●	●	●●	●●	●●	●●
Official	98	99	99	99	99	99	99	99	98	99	99	98
Administrative	97	99	99	99	98	97	98	99	98	100	99	98
Survey	-	-	-	-	-	-	-	-	-	-	-	-

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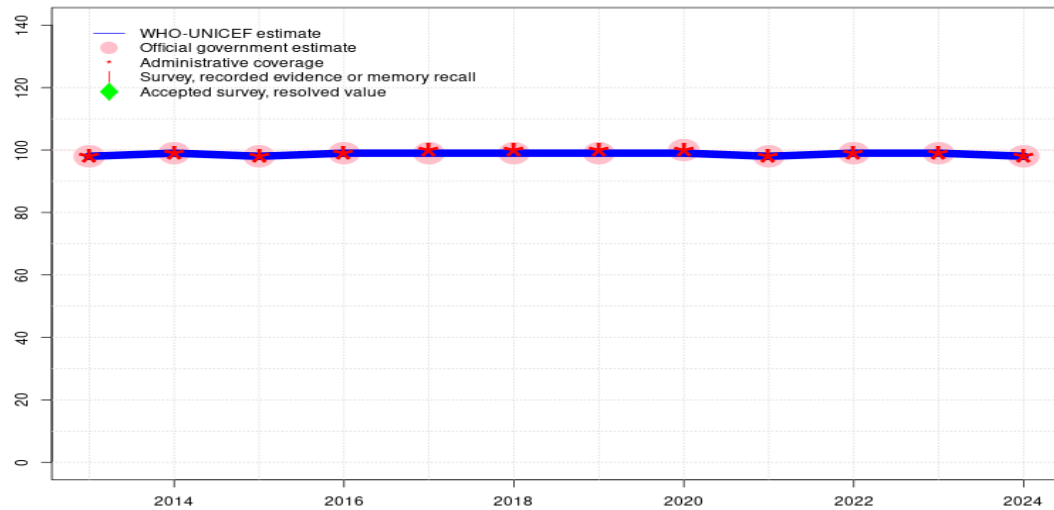
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- 2021: Estimate informed by reported data. Declines in reported number of doses administered since 2017 are largely not reflected in reported coverage levels due in part to declines in the reported target population. GoC=R+ D+
- 2020: Estimate informed by estimated DTP3 coverage assuming zero dropout. Programme notes concerns around the completeness of numerator data during the transition from a paper to electronic registry system and issues with connectivity in certain areas. WHO and UNICEF also take note of declines in the reported target population estimates of 11 percent between 2019 and 2020. Estimate challenged by: R-
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- 2014: Estimate informed by reported data. GoC=R+ D+
- 2013: Estimate informed by reported data. GoC=R+ D+

Iran (Islamic Republic of) - DTP3

IRN - DTP3



	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Estimate	98	99	98	99	99	99	99	99	98	99	99	98
Estimate GoC	●●	●●	●●	●●	●●	●●	●●	●●	●●	●●	●●	●●
Official	98	99	98	99	99	99	99	100	98	99	99	98
Administrative	98	99	98	99	100	100	100	100	98	99	99	98
Survey	-	-	-	-	-	-	-	-	-	-	-	-

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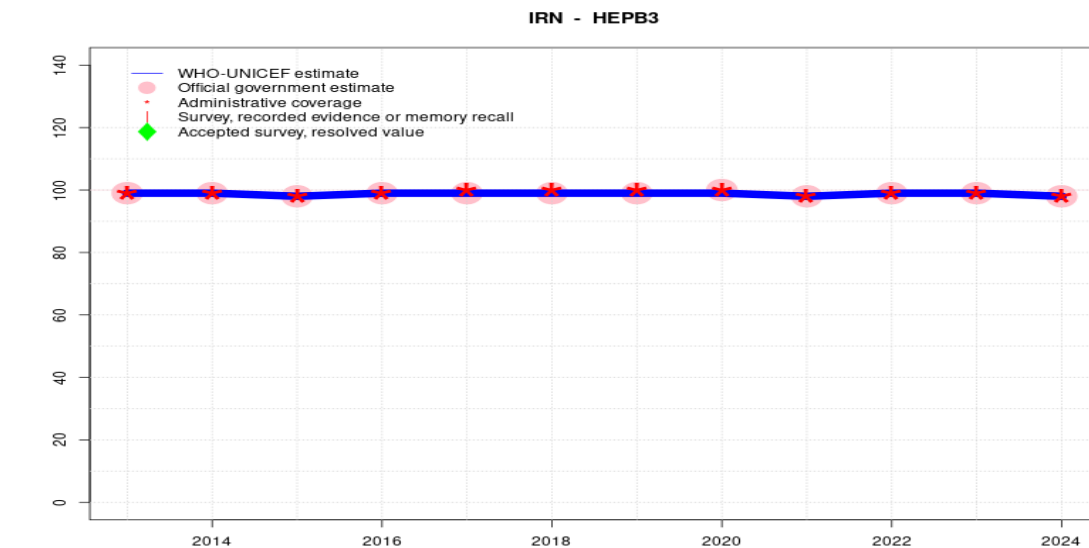
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Iran (Islamic Republic of) - HEPB3



	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Estimate	99	99	98	99	99	99	99	99	98	99	99	98
Estimate GoC	●●	●●	●●	●●	●●	●●	●●	●●	●●	●●	●●	●●
Official	99	99	98	99	99	99	99	100	98	99	99	98
Administrative	99	99	98	99	100	100	100	100	98	99	99	98
Survey	-	-	-	-	-	-	-	-	-	-	-	-

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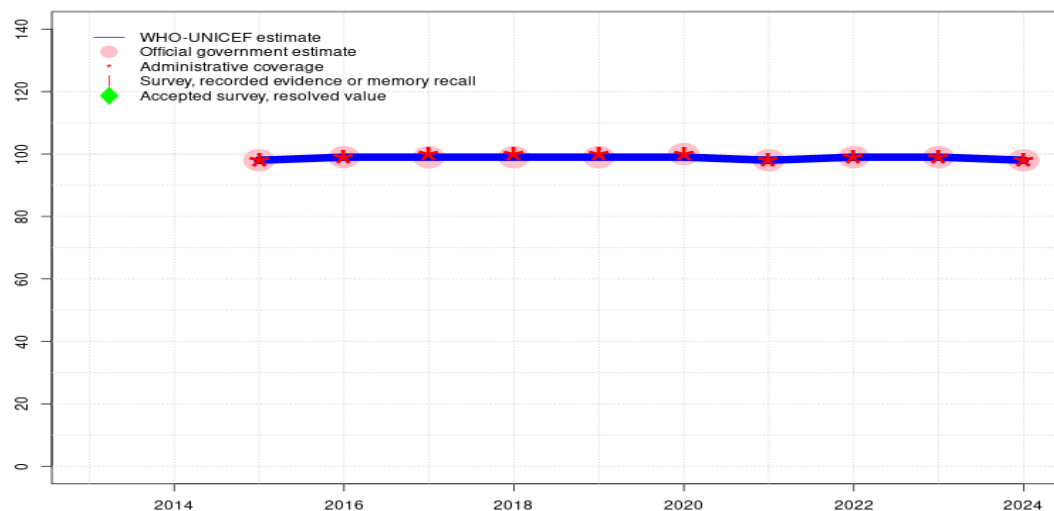
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- 2015: Estimate informed by reported data. GoC=R+ D+
- 2014: Estimate informed by reported data. GoC=R+ D+
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Iran (Islamic Republic of) - HIB3

IRN - HIB3



	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Estimate	-	-	98	99	99	99	99	99	98	99	99	98
Estimate GoC	-	-	●●	●●	●●	●●	●●	●●	●●	●●	●●	●●
Official	-	-	98	99	99	99	99	100	98	99	99	98
Administrative	-	-	98	99	100	100	100	100	98	99	99	98
Survey	-	-	-	-	-	-	-	-	-	-	-	-

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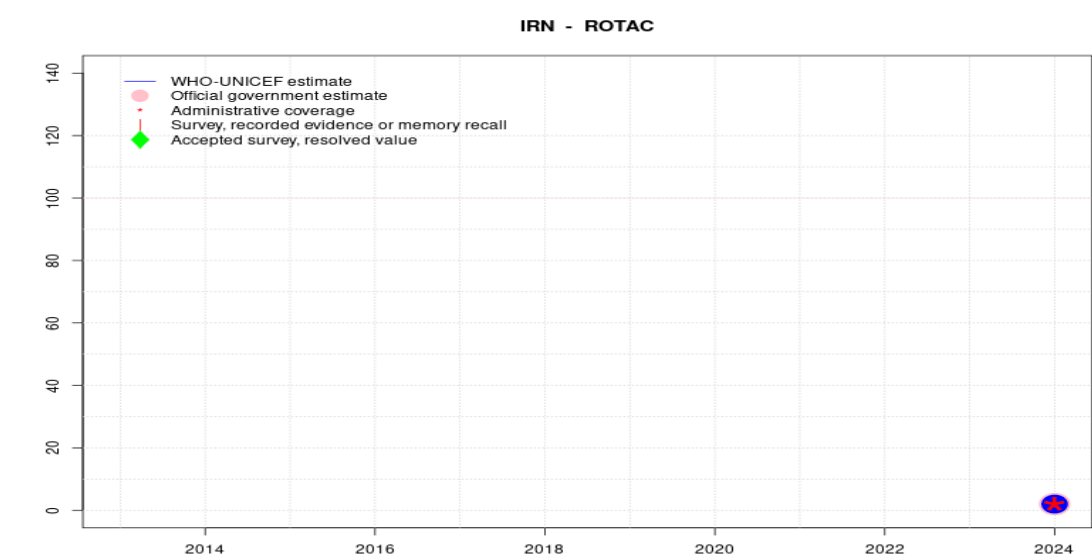
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- 2018: Estimate informed by reported data. GoC=R+ D+
- 2017: Estimate informed by reported data. GoC=R+ D+
- 2016: Estimate informed by reported data. Survey results for the 2016 birth cohort support high levels of reported vaccination coverage. Hib vaccine introduced in 2014. Reporting started in 2015. GoC=R+ D+
- 2015: Estimate informed by reported data. GoC=R+ D+

Iran (Islamic Republic of) - ROTAC



Description:

2024: Estimate informed by reported data. WHO and UNICEF are aware of plans for a 2025 vaccination coverage survey and await final results. Rotavirus vaccine introduced in 2024.
GoC=R+ D+

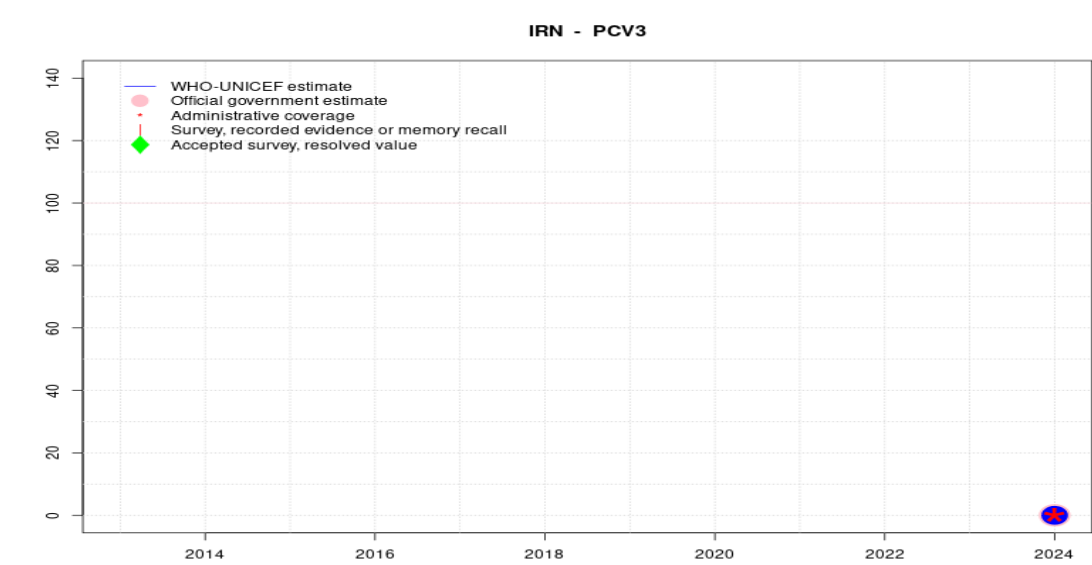
	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Estimate	-	-	-	-	-	-	-	-	-	-	-	2
Estimate GoC	-	-	-	-	-	-	-	-	-	-	-	●●
Official	-	-	-	-	-	-	-	-	-	-	-	2
Administrative	-	-	-	-	-	-	-	-	-	-	-	2
Survey	-	-	-	-	-	-	-	-	-	-	-	-

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.

Iran (Islamic Republic of) - PCV3



Description:

2024: Estimate informed by reported data. WHO and UNICEF are aware of plans for a 2025 vaccination coverage survey and await final results. PCV introduced in 2024 and achieved 45 percent coverage with the first dose and 28 percent with the second dose. GoC=R+D+

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Estimate	-	-	-	-	-	-	-	-	-	-	-	0
Estimate GoC	-	-	-	-	-	-	-	-	-	-	-	●●
Official	-	-	-	-	-	-	-	-	-	-	-	0
Administrative	-	-	-	-	-	-	-	-	-	-	-	0
Survey	-	-	-	-	-	-	-	-	-	-	-	-

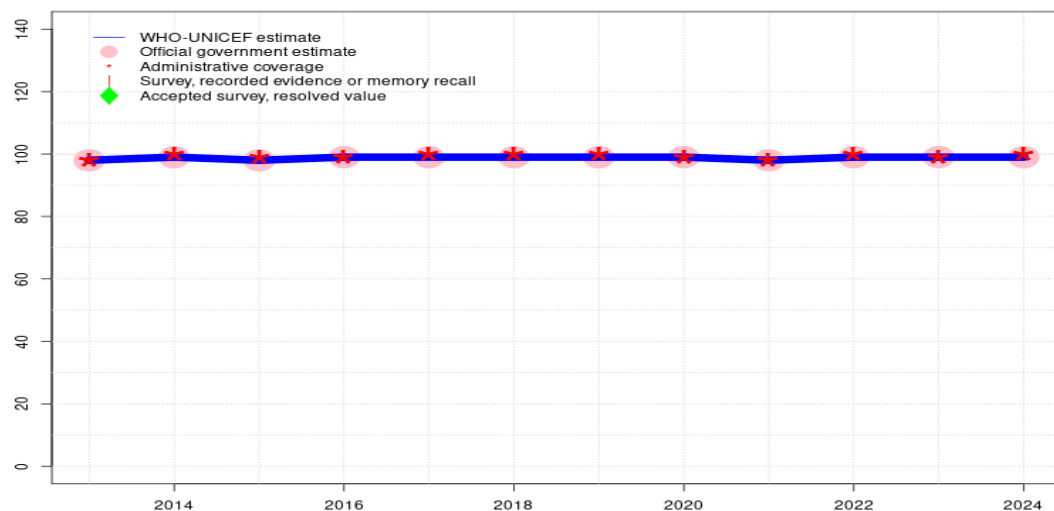
The WHO and UNICEF estimates of national immunization coverage (wuenic) are based on data and information that are of varying, and, in some instances, unknown quality. Beginning with the 2011 revision we describe the grade of confidence (GoC) we have in these estimates. As there is no underlying probability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

Iran (Islamic Republic of) - POL3

IRN - POL3



	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Estimate	98	99	98	99	99	99	99	99	98	99	99	99
Estimate GoC	●●	●●	●●	●●	●●	●●	●●	●●	●●	●●	●●	●●
Official	98	99	98	99	99	99	99	99	98	99	99	99
Administrative	98	100	99	99	100	100	100	99	98	100	99	100
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.

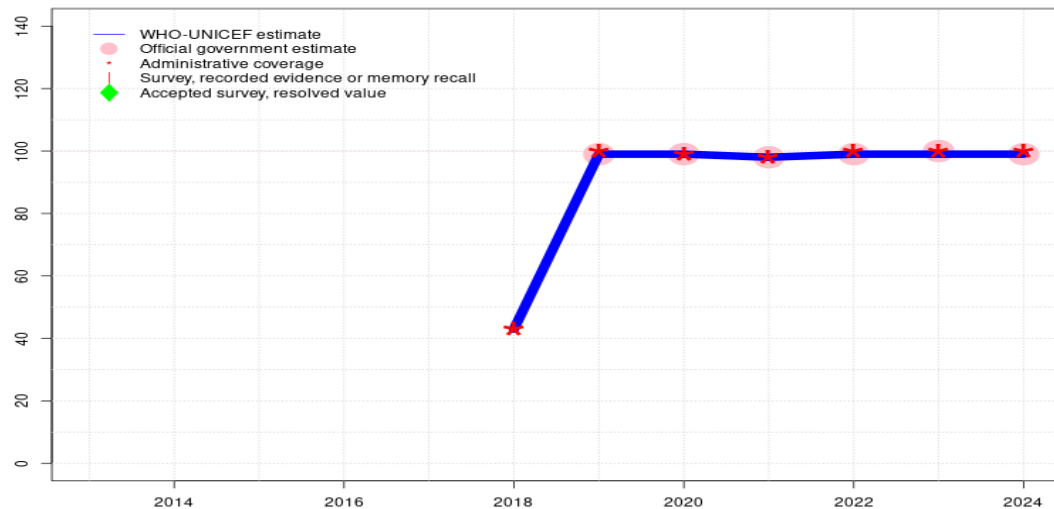
In all cases these estimates should be used with caution and should be assessed in light of the objective for which they are being used.

Description:

- 2024: Estimate informed by reported data. WHO and UNICEF are aware of plans for a 2025 vaccination coverage survey and await final results. GoC=R+ D+
- 2023: Estimate informed by reported data. GoC=R+ D+
- 2022: Estimate informed by reported data. The National Centre of Statistics conducts a national census every 5 years. Declines in reported number of doses administered since 2017 are largely not reflected in reported coverage levels due in part to declines in the reported target population. Country notes a dramatic decline in annual births. From 2017 to 2022 the reported target population has decreased 30 percent. GoC=R+ D+
- 2021: Estimate informed by reported data. Declines in reported number of doses administered since 2017 are largely not reflected in reported coverage levels due in part to declines in the reported target population. GoC=R+ D+
- 2020: Estimate informed by reported data. Programme notes concerns around the completeness of numerator data during the transition from a paper to electronic registry system and issues with connectivity in certain areas. WHO and UNICEF also take note of declines in the reported target population estimates of 11 percent between 2019 and 2020. GoC=R+ D+
- 2019: Estimate informed by reported data. Programme notes concerns around the completeness of numerator data during the transition from a paper to electronic registry system. WHO and UNICEF also take note of declines in the reported target population estimates of 5 percent between 2017 and 2018 and of 10 percent between 2018 and 2019. Several sub-national surveys and a 2019 national survey have been completed in Iran. Survey report only includes data for children with documented evidence of vaccination. 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. Survey results for the 2016 birth cohort support high levels of reported vaccination coverage. 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+

Iran (Islamic Republic of) - IPV1

IRN - IPV1



	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Estimate	-	-	-	-	-	43	99	99	98	99	99	99
Estimate GoC	-	-	-	-	-	•	••	••	••	••	••	••
Official	-	-	-	-	-	-	99	99	98	99	100	99
Administrative	-	-	-	-	-	43	100	99	98	100	100	100
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.

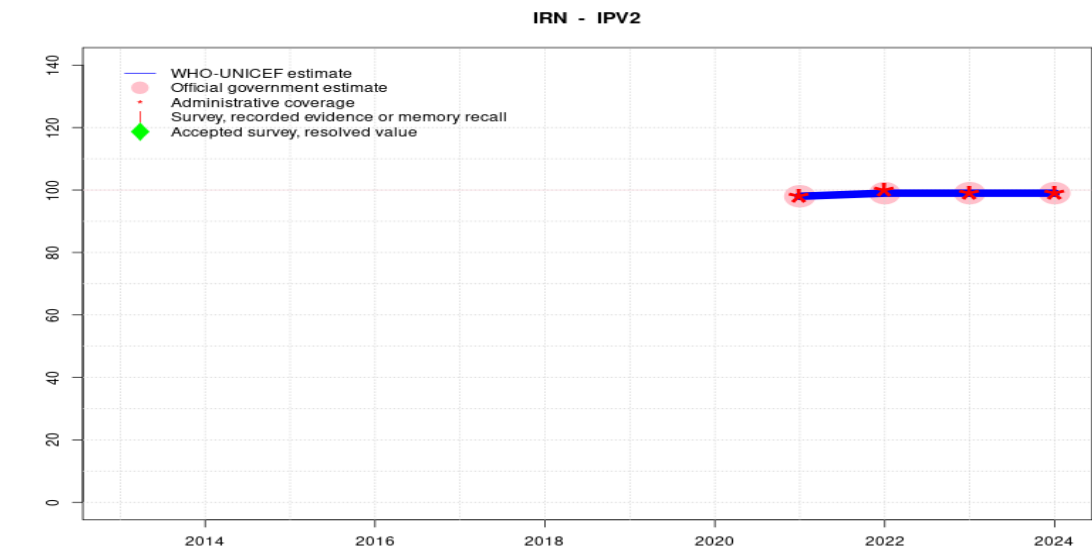
- Estimate is supported by reported data [R+], coverage recalculated with an independent denominator from the World Population Prospects: 2024 revision from the UN Population Division (D+), and at least one supporting survey within 2 years [S+]. While well supported, the estimate still carries a risk 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. WHO and UNICEF are aware of plans for a 2025 vaccination coverage survey and await final results. GoC=R+ D+
- 2023: Estimate informed by reported data. GoC=R+ D+
- 2022: Estimate informed by reported data. The National Centre of Statistics conducts a national census every 5 years. Declines in reported number of doses administered since 2017 are largely not reflected in reported coverage levels due in part to declines in the reported target population. Country notes a dramatic decline in annual births. From 2017 to 2022 the reported target population has decreased 30 percent. GoC=R+ D+
- 2021: Estimate informed by reported data. Declines in reported number of doses administered since 2017 are largely not reflected in reported coverage levels due in part to declines in the reported target population. GoC=R+ D+
- 2020: Estimate informed by reported data. Programme notes concerns around the completeness of numerator data during the transition from a paper to electronic registry system and issues with connectivity in certain areas. WHO and UNICEF also take note of declines in the reported target population estimates of 11 percent between 2019 and 2020. GoC=R+ D+
- 2019: Estimate informed by reported data. Programme notes concerns around the completeness of numerator data during the transition from a paper to electronic registry system. WHO and UNICEF also take note of declines in the reported target population estimates of 5 percent between 2017 and 2018 and of 10 percent between 2018 and 2019. Several sub-national surveys and a 2019 national survey have been completed in Iran. Survey report only includes data for children with documented evidence of vaccination. Estimate informed by reported data following introduction. GoC=R+ D+
- 2018: Estimate informed by reported administrative data. Inactivated polio vaccine introduced in 2015. Reporting started in 2018. GoC=Assigned by working group. Consistency with other antigens.

Iran (Islamic Republic of) - IPV2



Description:

2024: Estimate informed by reported data. WHO and UNICEF are aware of plans for a 2025 vaccination coverage survey and await final results. GoC=R+ D+

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

2022: Estimate informed by reported data. The National Centre of Statistics conducts a national census every 5 years. Declines in reported number of doses administered since 2017 are largely not reflected in reported coverage levels due in part to declines in the reported target population. Country notes a dramatic decline in annual births. From 2017 to 2022 the reported target population has decreased 30 percent. GoC=R+ D+

2021: Estimate informed by reported data. Declines in reported number of doses administered since 2017 are largely not reflected in reported coverage levels due in part to declines in the reported target population. Second dose of inactivated polio vaccine introduced in 2021. GoC=R+ D+

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Estimate	-	-	-	-	-	-	-	-	98	99	99	99
Estimate GoC	-	-	-	-	-	-	-	-	●●	●●	●●	●●
Official	-	-	-	-	-	-	-	-	98	99	99	99
Administrative	-	-	-	-	-	-	-	-	98	100	99	99
Survey	-	-	-	-	-	-	-	-	-	-	-	-

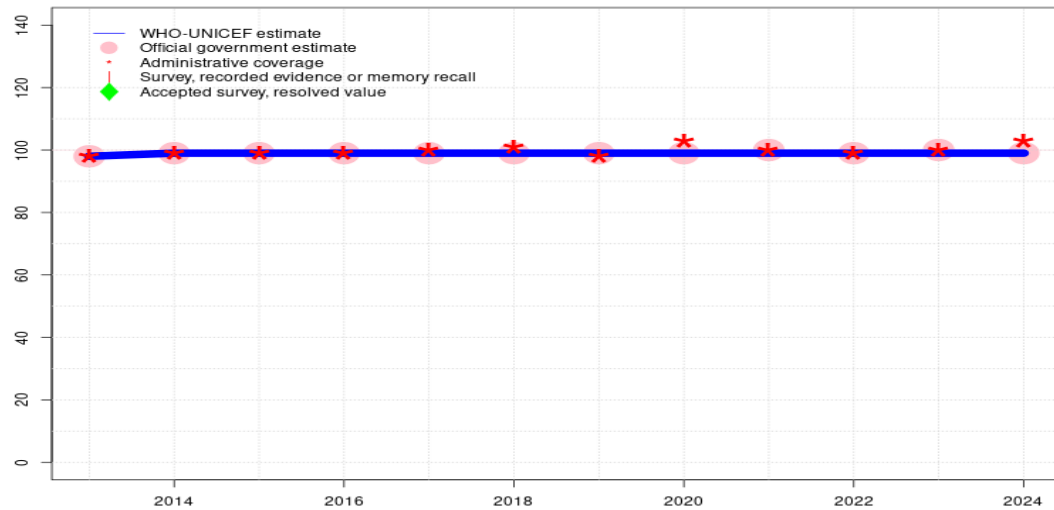
The WHO and UNICEF estimates of national immunization coverage (wuenic) are based on data and information that are of varying, and, in some instances, unknown quality. Beginning with the 2011 revision we describe the grade of confidence (GoC) we have in these estimates. As there is no underlying probability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

Iran (Islamic Republic of) - MCV1

IRN - MCV1



	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Estimate	98	99	99	99	99	99	99	99	99	99	99	99
Estimate GoC	●●	●●	●●	●●	●●	●●	●●	●●	●●	●●	●●	●●
Official	98	99	99	99	99	99	99	99	100	99	100	99
Administrative	98	99	99	99	100	101	98	103	100	99	100	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.

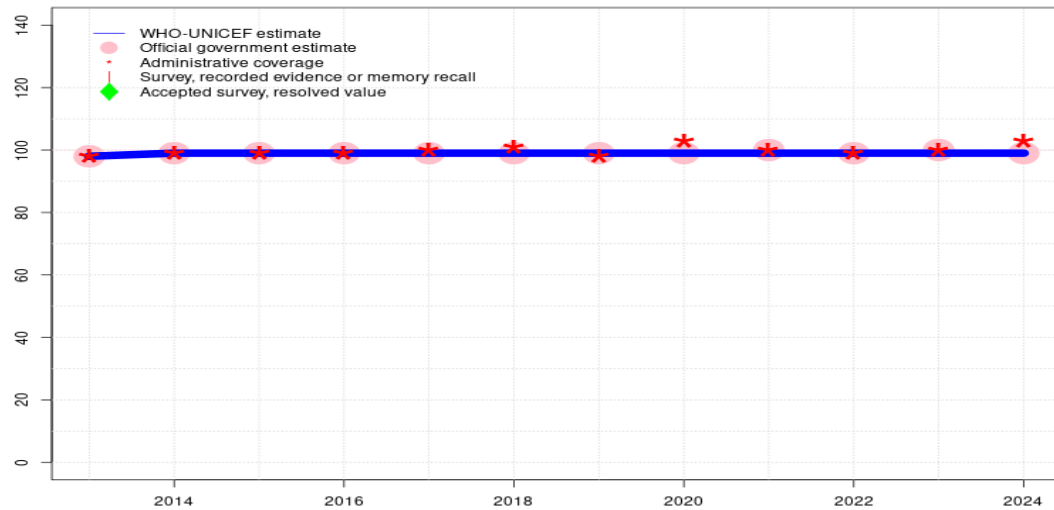
In all cases these estimates should be used with caution and should be assessed in light of the objective for which they are being used.

Description:

- 2024: Estimate informed by reported data. WHO and UNICEF are aware of plans for a 2025 vaccination coverage survey and await final results. GoC=R+ D+
- 2023: Estimate informed by reported data. GoC=R+ D+
- 2022: Estimate informed by reported data. The National Centre of Statistics conducts a national census every 5 years. Declines in reported number of doses administered since 2017 are largely not reflected in reported coverage levels due in part to declines in the reported target population. Country notes a dramatic decline in annual births. From 2017 to 2022 the reported target population has decreased 30 percent. Estimate challenged by: D-
- 2021: Estimate informed by reported data. Declines in reported number of doses administered since 2017 are largely not reflected in reported coverage levels due in part to declines in the reported target population. GoC=R+ D+
- 2020: Estimate informed by reported data. Programme notes concerns around the completeness of numerator data during the transition from a paper to electronic registry system and issues with connectivity in certain areas. WHO and UNICEF also take note of declines in the reported target population estimates of 11 percent between 2019 and 2020. GoC=R+ D+
- 2019: Estimate informed by reported data. Programme notes concerns around the completeness of numerator data during the transition from a paper to electronic registry system. WHO and UNICEF also take note of declines in the reported target population estimates of 5 percent between 2017 and 2018 and of 10 percent between 2018 and 2019. Several sub-national surveys and a 2019 national survey have been completed in Iran. Survey report only includes data for children with documented evidence of vaccination. 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. Survey results for the 2016 birth cohort support high levels of reported vaccination coverage. 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+

Iran (Islamic Republic of) - RCV1

IRN - RCV1



	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Estimate	98	99	99	99	99	99	99	99	99	99	99	99
Estimate GoC	●●	●●	●●	●●	●●	●●	●●	●●	●●	●●	●●	●●
Official	98	99	99	99	99	99	99	99	100	99	100	99
Administrative	98	99	99	99	100	101	98	103	100	99	100	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.

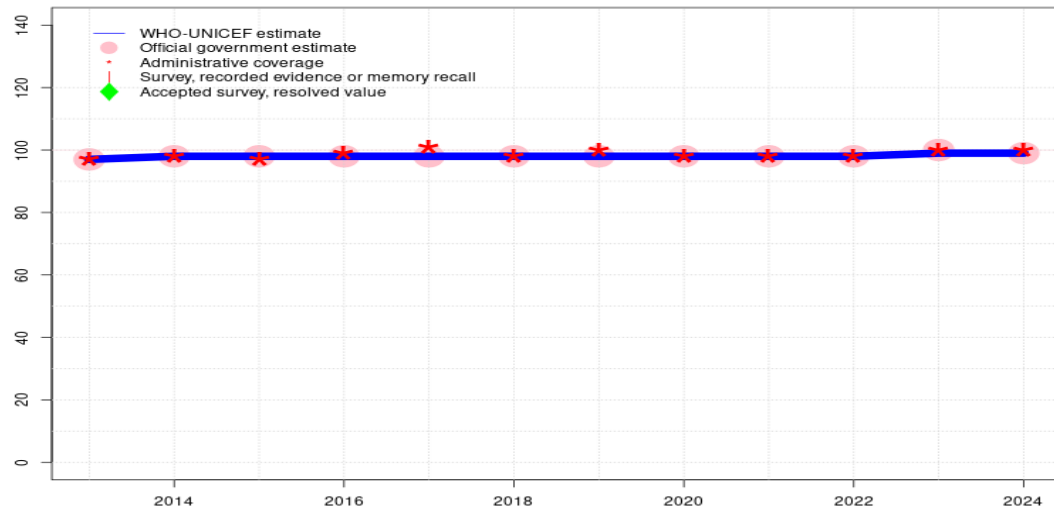
In all cases these estimates should be used with caution and should be assessed in light of the objective for which they are being used.

Description:

- 2024: Estimate based on estimated MCV1. WHO and UNICEF are aware of plans for a 2025 vaccination coverage survey and await final results. GoC=R+ D+
- 2023: Estimate based on estimated MCV1. GoC=R+ D+
- 2022: Estimate based on estimated MCV1. The National Centre of Statistics conducts a national census every 5 years. Declines in reported number of doses administered since 2017 are largely not reflected in reported coverage levels due in part to declines in the reported target population. Country notes a dramatic decline in annual births. From 2017 to 2022 the reported target population has decreased 30 percent. Estimate challenged by: D-
- 2021: Estimate based on estimated MCV1. Declines in reported number of doses administered since 2017 are largely not reflected in reported coverage levels due in part to declines in the reported target population. GoC=R+ D+
- 2020: Estimate based on estimated MCV1. Programme notes concerns around the completeness of numerator data during the transition from a paper to electronic registry system and issues with connectivity in certain areas. WHO and UNICEF also take note of declines in the reported target population estimates of 11 percent between 2019 and 2020. GoC=R+ D+
- 2019: Estimate based on estimated MCV1. Programme notes concerns around the completeness of numerator data during the transition from a paper to electronic registry system. WHO and UNICEF also take note of declines in the reported target population estimates of 5 percent between 2017 and 2018 and of 10 percent between 2018 and 2019. Several sub-national surveys and a 2019 national survey have been completed in Iran. Survey report only includes data for children with documented evidence of vaccination. GoC=R+ D+
- 2018: Estimate based on estimated MCV1. GoC=R+ D+
- 2017: Estimate based on estimated MCV1. GoC=R+ D+
- 2016: Estimate based on estimated MCV1. Survey results for the 2016 birth cohort support high levels of reported vaccination coverage. 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+

Iran (Islamic Republic of) - MCV2

IRN - MCV2



	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Estimate	97	98	98	98	98	98	98	98	98	98	99	99
Estimate GoC	●●	●●	●●	●●	●●	●●	●	●●	●●	●●	●●	●●
Official	97	98	98	98	98	98	98	98	98	98	100	99
Administrative	97	98	97	99	101	98	100	98	98	98	100	100
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. WHO and UNICEF are aware of plans for a 2025 vaccination coverage survey and await final results. GoC=R+ D+
- 2023: Estimate informed by reported data. GoC=R+ D+
- 2022: Estimate informed by reported data. The National Centre of Statistics conducts a national census every 5 years. Declines in reported number of doses administered since 2017 are largely not reflected in reported coverage levels due in part to declines in the reported target population. Country notes a dramatic decline in annual births. From 2017 to 2022 the reported target population has decreased 30 percent. GoC=R+ D+
- 2021: Estimate informed by reported data. Declines in reported number of doses administered since 2017 are largely not reflected in reported coverage levels due in part to declines in the reported target population. GoC=R+ D+
- 2020: Estimate informed by reported data. Programme notes concerns around the completeness of numerator data during the transition from a paper to electronic registry system and issues with connectivity in certain areas. WHO and UNICEF also take note of declines in the reported target population estimates of 11 percent between 2019 and 2020. GoC=R+ D+
- 2019: Estimate informed by reported data. Programme notes concerns around the completeness of numerator data during the transition from a paper to electronic registry system. WHO and UNICEF also take note of declines in the reported target population estimates of 5 percent between 2017 and 2018 and of 10 percent between 2018 and 2019. Several sub-national surveys and a 2019 national survey have been completed in Iran. Survey report only includes data for children with documented evidence of vaccination. Estimate challenged by: 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. Survey results for the 2016 birth cohort support high levels of reported vaccination coverage. 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+

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.

2017 Final report of the study of the Immunization Coverage of 24 to 36 Months Old Children in Iran, Spring and Summer 2019

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Evidence seen
MCV2	Record	98.5	24-36 m	8682	93

2016 Final report of the study of the Immunization Coverage of 24 to 36 Months Old Children in Iran, Spring and Summer 2019

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

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Evidence seen
BCG	Record	98.6	24-36 m	8682	93
DTP1	Record	98.9	24-36 m	8682	93
DTP3	Record	98.5	24-36 m	8682	93
HEPB1	Record	98.9	24-36 m	8682	93
HEPB3	Record	98.5	24-36 m	8682	93
HEPBB	Record	90.4	24-36 m	8682	93
HIB1	Record	98.9	24-36 m	8682	93
HIB3	Record	98.5	24-36 m	8682	93
MCV1	Record	98.8	24-36 m	8682	93
POL1	Record	98.9	24-36 m	8682	93
POL3	Record	98.5	24-36 m	8682	93
RCV1	Record	98.8	24-36 m	8682	93

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Vaccine	Confirmation method	Coverage	Age cohort	Sample	Evidence seen
BCG	Record	99	12-23 m	1757	-
DTP1	Record	98.7	12-23 m	1757	-
DTP3	Record	96.5	12-23 m	1757	-
HEPB1	Record	98.8	12-23 m	1757	-
HEPB3	Record	96.2	12-23 m	1757	-
MCV1	Record	96.7	12-23 m	1757	-
POL1	Record	99.2	12-23 m	1757	-
POL3	Record	95.7	12-23 m	1757	-