

# Kiribati: 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.

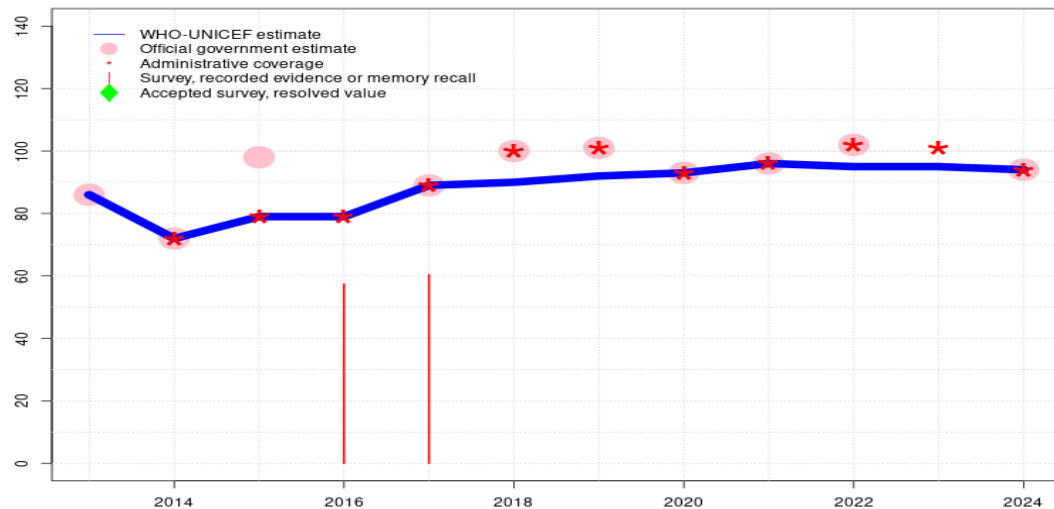
**YFV:** percentage of surviving infants who received one dose of yellow fever vaccine in countries where YFV is part of the national immunization schedule for children or is recommended in at risk areas; coverage estimates are annualized for the entire cohort of surviving infants.

**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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# Kiribati - BCG

KIR - BCG



	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Estimate	86	72	79	79	89	90	92	93	96	95	95	94
Estimate GoC	●	●	●	●	●	●	●	●	●	●	●	●
Official	86	72	98	-	89	100	101	93	96	102	-	94
Administrative	-	72	79	79	89	100	101	93	96	102	101	94
Survey	-	-	-	57	60	-	-	-	-	-	-	-

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:

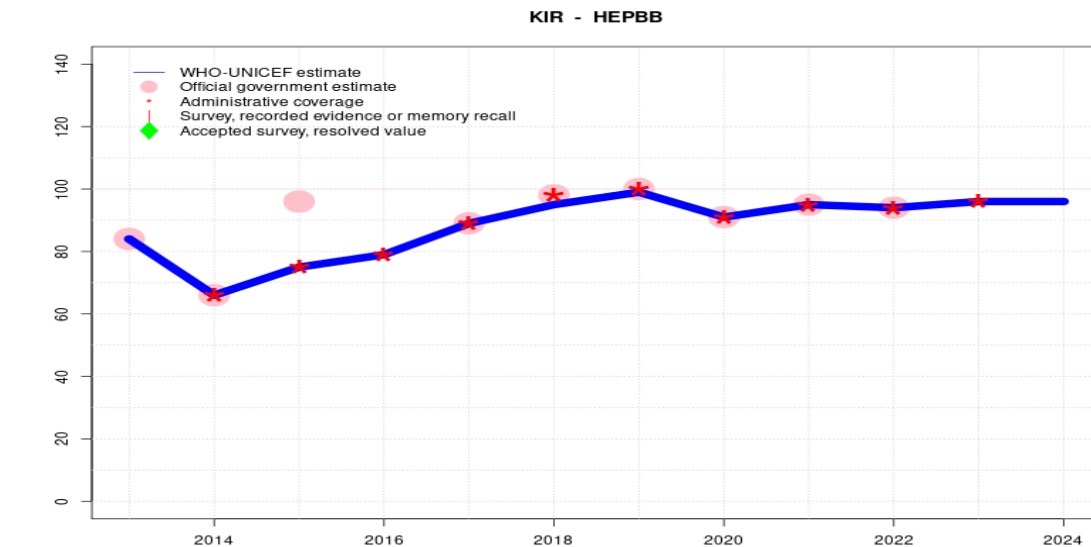
- 2024: Reported coverage in proportions. No nationally representative household survey for the most recent 5 annual birth cohorts. WHO and UNICEF recommend a high quality survey to verify reported levels of coverage. GoC=Assigned by working group. Inconsistent information between reported data and independent assessments across the time series.
- 2023: Estimate informed by interpolation between reported data. Reported data excluded because 101 percent greater than 100 percent. Estimate of 95 percent changed from previous revision value of 96 percent. GoC=Assigned by working group. Inconsistent information between reported data and independent assessments across the time series.
- 2022: Estimate informed by interpolation between reported data. Reported data excluded because 102 percent greater than 100 percent. Results from the 2018-19 Social Development Indicator Survey suggest coverage levels that are much lower than that reported by the country. Given the differences between survey results and reported data, estimates are likely overestimated. Estimate of 95 percent changed from previous revision value of 96 percent. GoC=Assigned by working group. Inconsistent information between reported data and independent assessments across the time series.
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- 2018: Estimate informed by interpolation between reported data. Reported data excluded. Unexplained increase in the reported number of children vaccinated. GoC=Assigned by working group. Inconsistent information between reported data and independent assessments across the time series.
- 2017: Estimate informed by reported data. Kiribati Social Development Indicator Survey 2018-19 results ignored by working group. GoC=Assigned by working group. Inconsistent information between reported data and independent assessments across the time series.
- 2016: Estimate informed by reported administrative data. Kiribati Social Development Indicator Survey 2018-19 results ignored by working group. Decline in reported target population for 2016 compared to 2015 is unexplained. GoC=Assigned by working group. Inconsistent information between reported data and independent assessments across the time series.
- 2015: Estimate informed by reported administrative data. Programme notes their official estimates are based on actual deliveries as the administrative coverage is based on projections from the 2010 census. Programme reports two months national level vaccine stockout. Adjustment of official estimate from administrative coverage is based on the number of actual deliveries rather than a projection from the 2010 census. However, the one-time use of actual deliveries as the target population rather than the projections from the

census creates a slight discontinuity that is reflective of a data correction rather than a change in programme performance. GoC=Assigned by working group. Inconsistent information between reported data and independent assessments across the time series.

2014: Estimate informed by reported data. Programme reports two months stockout at national level. Fluctuations attributed to small birth cohort and incomplete subnational reporting. GoC=Assigned by working group. Inconsistent information between reported data and independent assessments across the time series.

2013: Estimate informed by reported data. GoC=Assigned by working group. Inconsistent information between reported data and independent assessments across the time series.

# Kiribati - HEPBB



	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Estimate	84	66	75	79	89	95	99	91	95	94	96	96
Estimate GoC	●	●	●	●	●	●	●	●	●	●	●	●
Official	84	66	96	-	89	98	100	91	95	94	-	-
Administrative	-	66	75	79	89	98	100	91	95	94	96	-
Survey	-	-	-	-	-	-	-	-	-	-	-	-

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- Estimate is supported by reported data [R+], coverage recalculated with an independent denominator from the World Population Prospects: 2024 revision from the UN Population Division (D+), and at least one supporting survey within 2 years [S+]. While well supported, the estimate still carries a risk of being wrong.
- Estimate is supported by at least one data source; [R+], [S+], or [D+]; and no data source, [R-], [D-], or [S-], challenges the estimate.
- There are no directly supporting data; or data from at least one source; [R-], [D-], [S-]; challenge the estimate.

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

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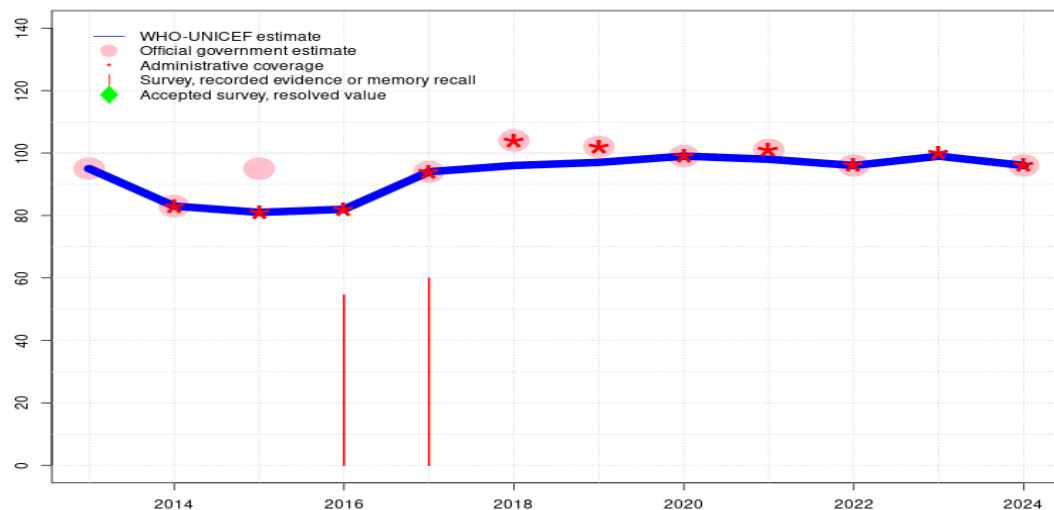
- 2024: Estimate informed by extrapolation from reported data. No nationally representative household survey for the most recent 5 annual birth cohorts. WHO and UNICEF recommend a high quality survey to verify reported levels of coverage. GoC=Assigned by working group. Inconsistent information between reported data and independent assessments across the time series.
- 2023: Estimate informed by reported administrative data. GoC=Assigned by working group. Inconsistent information between reported data and independent assessments across the time series.
- 2022: Estimate informed by reported data. Results from the 2018-19 Social Development Indicator Survey suggest coverage levels that are much lower than that reported by the country. Given the differences between survey results and reported data, estimates are likely overestimated. Programme reports one month vaccine stockout at national level. GoC=Assigned by working group. Inconsistent information between reported data and independent assessments across the time series.
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- 2016: Estimate informed by reported administrative data. Decline in reported target population for 2016 compared to 2015 is unexplained. GoC=Assigned by working group. Inconsistent information between reported data and independent assessments across the time series.
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- 2014: Estimate informed by reported data. Fluctuations attributed to small birth cohort and incomplete subnational reporting. GoC=Assigned by working group. Inconsistent information between reported data and independent assessments across the time series.

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# Kiribati - DTP1

KIR - DTP1



	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Estimate	95	83	81	82	94	96	97	99	98	96	99	96
Estimate GoC	•	•	•	•	•	•	•	•	•	•	•	•
Official	95	83	95	-	94	104	102	99	101	96	-	96
Administrative	-	83	81	82	94	104	102	99	101	96	100	96
Survey	-	-	-	55	60	-	-	-	-	-	-	-

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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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## Description:

- 2024: Reported coverage in proportions. No nationally representative household survey for the most recent 5 annual birth cohorts. WHO and UNICEF recommend a high quality survey to verify reported levels of coverage. GoC=Assigned by working group. Inconsistent information between reported data and independent assessments across the time series.
- 2023: Estimate informed by reported administrative data. GoC=Assigned by working group. Inconsistent information between reported data and independent assessments across the time series.
- 2022: Estimate informed by reported data. Results from the 2018-19 Social Development Indicator Survey suggest coverage levels that are much lower than that reported by the country. Given the differences between survey results and reported data, estimates are likely over-estimated. GoC=Assigned by working group. Inconsistent information between reported data and independent assessments across the time series.
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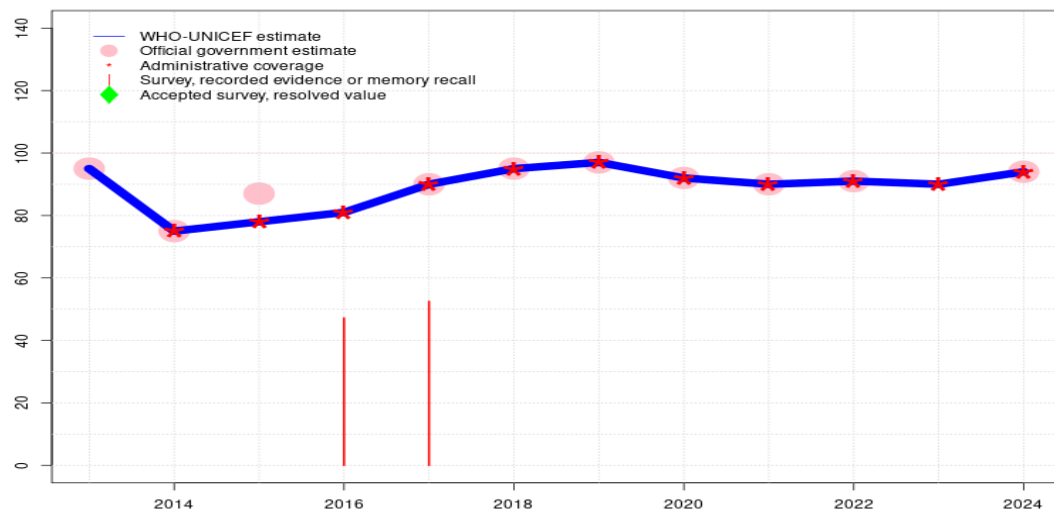
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# Kiribati - DTP3

KIR - DTP3



	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Estimate	95	75	78	81	90	95	97	92	90	91	90	94
Estimate GoC	•	•	•	•	•	•	•	•	•	•	•	•
Official	95	75	87	-	90	95	97	92	90	91	-	94
Administrative	-	75	78	81	90	95	97	92	90	91	90	94
Survey	-	-	-	47	53	-	-	-	-	-	-	-

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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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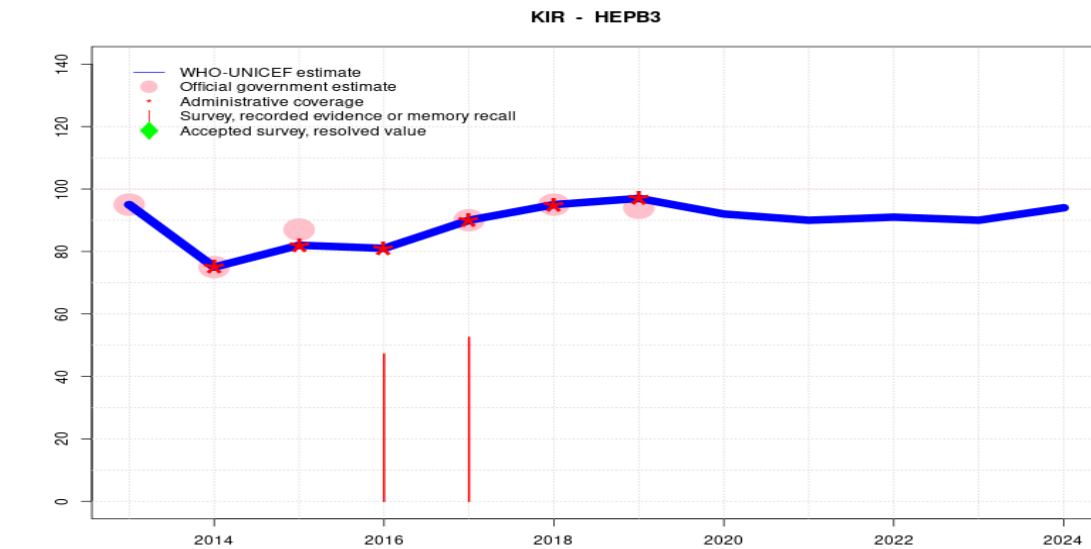
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- 2023: Estimate informed by reported administrative data. GoC=Assigned by working group. Inconsistent information between reported data and independent assessments across the time series.
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- 2016: Estimate informed by reported administrative data. Kiribati Social Development Indicator Survey 2018-19 results ignored by working group. Kiribati Social Development Indicator Survey 2018-19 record or recall results of 47 percent modified for recall bias to 50 percent based on 1st dose record or recall coverage of 55 percent, 1st dose record only coverage of 10 percent and 3rd dose record only coverage of 9 percent. Decline in reported target population for 2016 compared to 2015 is unexplained. GoC=Assigned by working group. Inconsistent information between reported data and independent assessments across the time series.
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# Kiribati - HEPB3



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Estimate GoC	•	•	•	•	•	•	•	•	•	•	•	•
Official	95	75	87	-	90	95	94	-	-	-	-	-
Administrative	-	75	82	81	90	95	97	-	-	-	-	-
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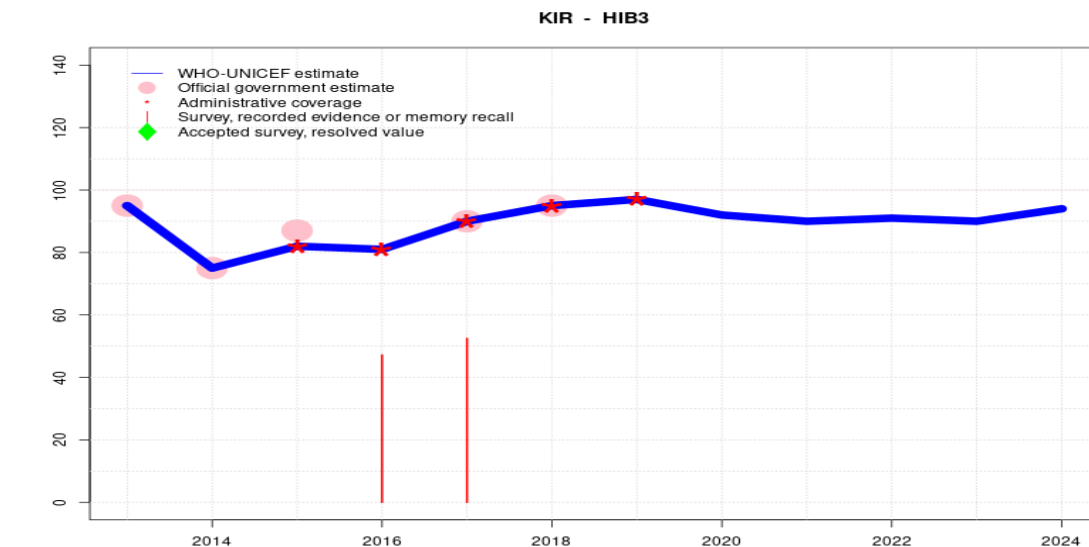
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- 2023: Estimate informed by estimated DTP3 coverage. GoC=Assigned by working group. Inconsistent information between reported data and independent assessments across the time series.
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- 2015: Estimate informed by reported administrative data. Programme notes their official estimates are based on actual deliveries as the administrative coverage is based on projections from the 2010 census. Adjustment of official estimate from administrative coverage is

based on the number of actual deliveries rather than a projection from the 2010 census. However, the one-time use of actual deliveries as the target population rather than the projections from the census creates a slight discontinuity that is reflective of a data correction rather than a change in programme performance. GoC=Assigned by working group. Inconsistent information between reported data and independent assessments across the time series.

2014: Estimate informed by reported data. Fluctuations attributed to small birth cohort and incomplete subnational reporting. GoC=Assigned by working group. Inconsistent information between reported data and independent assessments across the time series.

2013: Estimate informed by reported data. GoC=Assigned by working group. Inconsistent information between reported data and independent assessments across the time series.

# Kiribati - Hib3



	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Estimate	95	75	82	81	90	95	97	92	90	91	90	94
Estimate GoC	•	•	•	•	•	•	•	•	•	•	•	•
Official	95	75	87	-	90	95	-	-	-	-	-	-
Administrative	-	-	82	81	90	95	97	-	-	-	-	-
Survey	-	-	-	47	53	-	-	-	-	-	-	-

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:

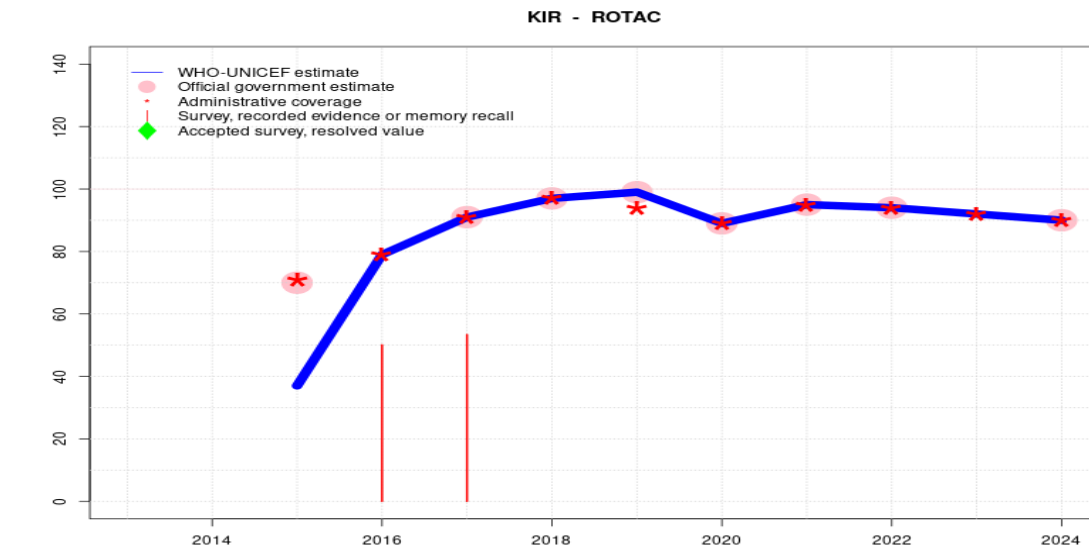
- 2024: Reported coverage in proportions. No nationally representative household survey for the most recent 5 annual birth cohorts. WHO and UNICEF recommend a high quality survey to verify reported levels of coverage. GoC=Assigned by working group. Inconsistent information between reported data and independent assessments across the time series.
- 2023: Estimate informed by estimated DTP3 coverage. GoC=Assigned by working group. Inconsistent information between reported data and independent assessments across the time series.
- 2022: Estimate informed by estimated DTP3 coverage. Results from the 2018-19 Social Development Indicator Survey suggest coverage levels that are much lower than that reported by the country. Given the differences between survey results and reported data, estimates are likely overestimated. GoC=Assigned by working group. Inconsistent information between reported data and independent assessments across the time series.
- 2021: Estimate informed by estimated DTP3 coverage. GoC=Assigned by working group. Inconsistent information between reported data and independent assessments across the time series.
- 2020: Estimate informed by estimated DTP3 coverage. GoC=Assigned by working group. Inconsistent information between reported data and independent assessments across the time series.
- 2019: Estimate informed by estimated DTP3 coverage. GoC=Assigned by working group. Inconsistent information between reported data and independent assessments across the time series.
- 2018: Estimate informed by reported data. GoC=Assigned by working group. Inconsistent information between reported data and independent assessments across the time series.
- 2017: Estimate informed by reported data. Kiribati Social Development Indicator Survey 2018-19 results ignored by working group. Kiribati Social Development Indicator Survey 2018-19 record or recall results of 53 percent modified for recall bias to 57 percent based on 1st dose record or recall coverage of 60 percent, 1st dose record only coverage of 21 percent and 3rd dose record only coverage of 20 percent. GoC=Assigned by working group. Inconsistent information between reported data and independent assessments across the time series.
- 2016: Estimate informed by reported administrative data. Kiribati Social Development Indicator Survey 2018-19 results ignored by working group. Kiribati Social Development Indicator Survey 2018-19 record or recall results of 47 percent modified for recall bias to 50 percent based on 1st dose record or recall coverage of 55 percent, 1st dose record only coverage of 10 percent and 3rd dose record only coverage of 9 percent. Decline in reported target population for 2016 compared to 2015 is unexplained. GoC=Assigned by working group. Inconsistent information between reported data and independent assessments across the time series.
- 2015: Estimate informed by reported administrative data. Programme notes their official estimates are based on actual deliveries as the administrative coverage is based on projections from the 2010 census. Adjustment of official estimate from administrative coverage is

based on the number of actual deliveries rather than a projection from the 2010 census. However, the one-time use of actual deliveries as the target population rather than the projections from the census creates a slight discontinuity that is reflective of a data correction rather than a change in programme performance. GoC=Assigned by working group. Inconsistent information between reported data and independent assessments across the time series.

2014: Estimate informed by reported data. Fluctuations attributed to small birth cohort and incomplete subnational reporting. GoC=Assigned by working group. Inconsistent information between reported data and independent assessments across the time series.

2013: Estimate informed by reported data. GoC=Assigned by working group. Inconsistent information between reported data and independent assessments across the time series.

# Kiribati - ROTAC



	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Estimate	-	-	37	79	91	97	99	89	95	94	92	90
Estimate GoC	-	-	•	•	•	•	•	•	•	•	•	•
Official	-	-	70	-	91	97	99	89	95	94	-	90
Administrative	-	-	71	79	91	97	94	89	95	94	92	90
Survey	-	-	-	50	53	-	-	-	-	-	-	-

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.

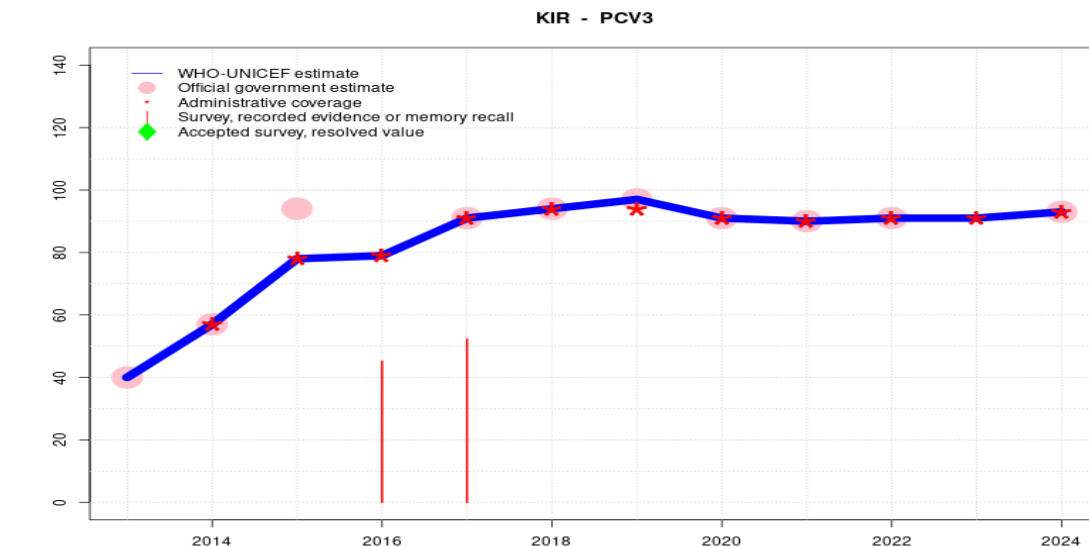
## Description:

- 2024: Reported coverage in proportions. No nationally representative household survey for the most recent 5 annual birth cohorts. WHO and UNICEF recommend a high quality survey to verify reported levels of coverage. GoC=Assigned by working group. Inconsistent information between reported data and independent assessments across the time series.
- 2023: Estimate informed by reported administrative data. GoC=Assigned by working group. Inconsistent information between reported data and independent assessments across the time series.
- 2022: Estimate informed by reported data. Results from the 2018-19 Social Development Indicator Survey suggest coverage levels that are much lower than that reported by the country. Given the differences between survey results and reported data, estimates are likely over-estimated. GoC=Assigned by working group. Inconsistent information between reported data and independent assessments across the time series.
- 2021: Estimate informed by reported data. GoC=Assigned by working group. Inconsistent information between reported data and independent assessments across the time series.
- 2020: Estimate informed by reported data. GoC=Assigned by working group. Inconsistent information between reported data and independent assessments across the time series.
- 2019: Estimate informed by reported data. GoC=Assigned by working group. Inconsistent information between reported data and independent assessments across the time series.
- 2018: Estimate informed by reported data. GoC=Assigned by working group. Inconsistent information between reported data and independent assessments across the time series.
- 2017: Estimate informed by reported data. Kiribati Social Development Indicator Survey 2018-19 results ignored by working group. Kiribati Social Development Indicator Survey 2018-19 record or recall results of 53 percent modified for recall bias to 58 percent based on 1st dose record or recall coverage of 58 percent, 1st dose record only coverage of 21 percent and 3rd dose record only coverage of 21 percent. GoC=Assigned by working group. Inconsistent information between reported data and independent assessments across the time series.
- 2016: Estimate informed by reported administrative data. Kiribati Social Development Indicator Survey 2018-19 results ignored by working group. Kiribati Social Development Indicator Survey 2018-19 record or recall results of 50 percent modified for recall bias to 54 percent based on 1st dose record or recall coverage of 54 percent, 1st dose record only coverage of 9 percent and 3rd dose record only coverage of 9 percent. Decline in reported target population for 2016 compared to 2015 is unexplained. Estimate informed by reported coverage following introduction period. GoC=Assigned by working group. Inconsistent information between reported data and independent assessments across the time series.
- 2015: Rotavirus vaccine introduced in August 2015. Programme reports 71 percent coverage in 53 percent of the national target population. Estimate informed by the total annual national target population. Programme notes their official estimates are based on actual deliveries as the administrative coverage is based on projections from the 2010 census. Adjustment of official estimate from administrative coverage is based on the number of actual deliveries rather than a projection from the 2010 census. However, the one-time

use of actual deliveries as the target population rather than the projections from the census creates a slight discontinuity that is reflective of a data correction rather than a change in programme performance. GoC=Assigned by working group. Inconsistent information between reported data and independent assessments across the time series.



# Kiribati - PCV3



	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Estimate	40	57	78	79	91	94	97	91	90	91	91	93
Estimate GoC	•	•	•	•	•	•	•	•	•	•	•	•
Official	40	57	94	-	91	94	97	91	90	91	-	93
Administrative	-	57	78	79	91	94	94	91	90	91	91	93
Survey	-	-	-	45	52	-	-	-	-	-	-	-

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: Reported coverage in proportions. No nationally representative household survey for the most recent 5 annual birth cohorts. WHO and UNICEF recommend a high quality survey to verify reported levels of coverage. GoC=Assigned by working group. Inconsistent information between reported data and independent assessments across the time series.
- 2023: Estimate informed by reported administrative data. GoC=Assigned by working group. Inconsistent information between reported data and independent assessments across the time series.
- 2022: Estimate informed by reported data. Results from the 2018-19 Social Development Indicator Survey suggest coverage levels that are much lower than that reported by the country. Given the differences between survey results and reported data, estimates are likely over-estimated. GoC=Assigned by working group. Inconsistent information between reported data and independent assessments across the time series.
- 2021: Estimate informed by reported data. GoC=Assigned by working group. Inconsistent information between reported data and independent assessments across the time series.
- 2020: Estimate informed by reported data. GoC=Assigned by working group. Inconsistent information between reported data and independent assessments across the time series.
- 2019: Estimate informed by reported data. GoC=Assigned by working group. Inconsistent information between reported data and independent assessments across the time series.
- 2018: Estimate informed by reported data. GoC=Assigned by working group. Inconsistent information between reported data and independent assessments across the time series.
- 2017: Estimate informed by reported data. Kiribati Social Development Indicator Survey 2018-19 results ignored by working group. Kiribati Social Development Indicator Survey 2018-19 record or recall results of 52 percent modified for recall bias to 56 percent based on 1st dose record or recall coverage of 59 percent, 1st dose record only coverage of 21 percent and 3rd dose record only coverage of 20 percent. GoC=Assigned by working group. Inconsistent information between reported data and independent assessments across the time series.
- 2016: Estimate informed by reported administrative data. Kiribati Social Development Indicator Survey 2018-19 results ignored by working group. Kiribati Social Development Indicator Survey 2018-19 record or recall results of 45 percent modified for recall bias to 43 percent based on 1st dose record or recall coverage of 54 percent, 1st dose record only coverage of 10 percent and 3rd dose record only coverage of 8 percent. Decline in reported target population for 2016 compared to 2015 is unexplained. Programme reports vaccinating fewer children during 2016 compared to 2015. GoC=Assigned by working group. Inconsistent information between reported data and independent assessments across the time series.
- 2015: Estimate informed by reported administrative data. Programme notes their official estimates are based on actual deliveries as the administrative coverage is based on projections from the 2010 census. Programme reports one month national level vaccine stockout. Adjustment of official estimate from administrative coverage is based on the number of actual deliveries rather than a projection from the 2010 census. However, the one-time

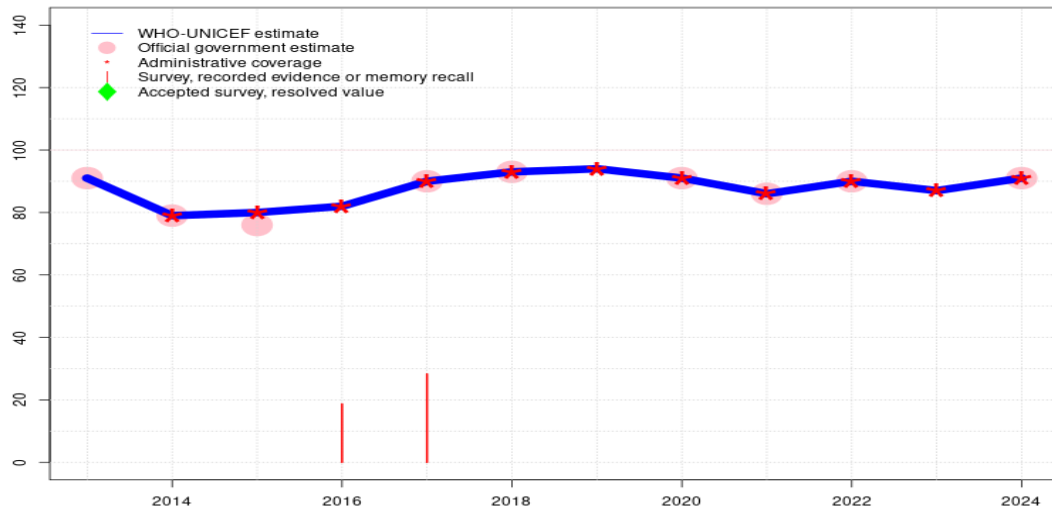
use of actual deliveries as the target population rather than the projections from the census creates a slight discontinuity that is reflective of a data correction rather than a change in programme performance. Estimate of 78 percent changed from previous revision value of 74 percent. GoC=Assigned by working group. Inconsistent information between reported data and independent assessments across the time series.

2014: Estimate informed by reported data. Programme reports a three months vaccine stockout at national level. Fluctuations attributed to small birth cohort and incomplete subnational reporting. GoC=Assigned by working group. Inconsistent information between reported data and independent assessments across the time series.

2013: Estimate informed by reported data. Pneumococcal conjugate vaccine introduced in 2013. Programme reports four months vaccine stockout at the national level. GoC=Assigned by working group. Inconsistent information between reported data and independent assessments across the time series.

# Kiribati - POL3

KIR - POL3



	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Estimate	91	79	80	82	90	93	94	91	86	90	87	91
Estimate GoC	●	●	●	●	●	●	●	●	●	●	●	●
Official	91	79	76	-	90	93	-	91	86	90	-	91
Administrative	-	79	80	82	90	93	94	91	86	90	87	91
Survey	-	-	-	19	28	-	-	-	-	-	-	-

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:

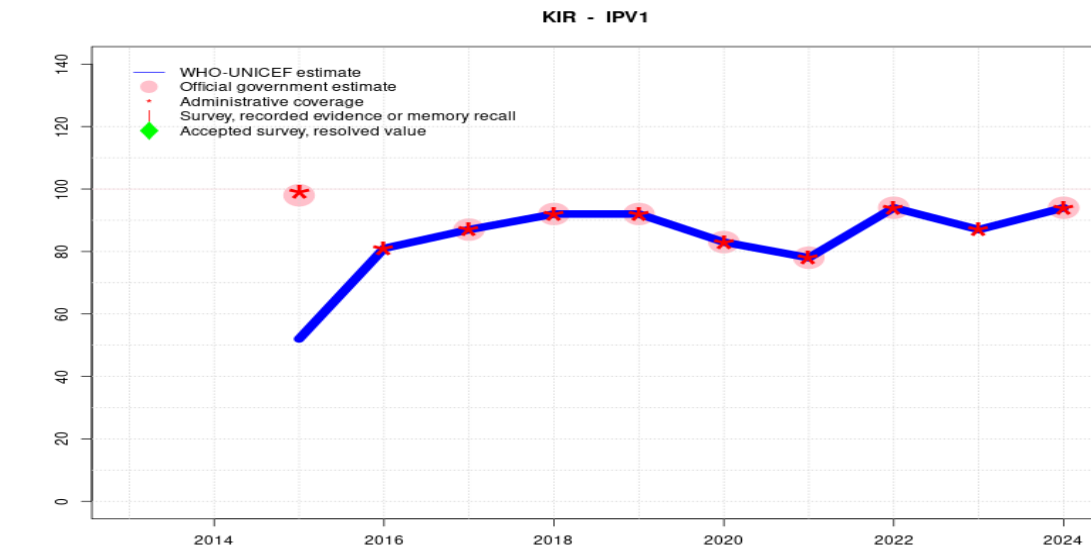
- 2024: Reported coverage in proportions. No nationally representative household survey for the most recent 5 annual birth cohorts. WHO and UNICEF recommend a high quality survey to verify reported levels of coverage. GoC=Assigned by working group. Inconsistent information between reported data and independent assessments across the time series.
- 2023: Estimate informed by reported administrative data. GoC=Assigned by working group. Inconsistent information between reported data and independent assessments across the time series.
- 2022: Estimate informed by reported data. Results from the 2018-19 Social Development Indicator Survey suggest coverage levels that are much lower than that reported by the country. Given the differences between survey results and reported data, estimates are likely over-estimated. GoC=Assigned by working group. Inconsistent information between reported data and independent assessments across the time series.
- 2021: Estimate informed by reported data. GoC=Assigned by working group. Inconsistent information between reported data and independent assessments across the time series.
- 2020: Estimate informed by reported data. GoC=Assigned by working group. Inconsistent information between reported data and independent assessments across the time series.
- 2019: Estimate informed by reported administrative data. GoC=Assigned by working group. Inconsistent information between reported data and independent assessments across the time series.
- 2018: Estimate informed by reported data. GoC=Assigned by working group. Inconsistent information between reported data and independent assessments across the time series.
- 2017: Estimate informed by reported data. Kiribati Social Development Indicator Survey 2018-19 results ignored by working group. Kiribati Social Development Indicator Survey 2018-19 record or recall results of 28 percent modified for recall bias to 53 percent based on 1st dose record or recall coverage of 56 percent, 1st dose record only coverage of 21 percent and 3rd dose record only coverage of 20 percent. GoC=Assigned by working group. Inconsistent information between reported data and independent assessments across the time series.
- 2016: Estimate informed by reported administrative data. Kiribati Social Development Indicator Survey 2018-19 results ignored by working group. Kiribati Social Development Indicator Survey 2018-19 record or recall results of 19 percent modified for recall bias to 49 percent based on 1st dose record or recall coverage of 54 percent, 1st dose record only coverage of 10 percent and 3rd dose record only coverage of 9 percent. Decline in reported target population for 2016 compared to 2015 is unexplained. GoC=Assigned by working group. Inconsistent information between reported data and independent assessments across the time series.
- 2015: Estimate informed by reported administrative data. Programme notes their official estimates are based on actual deliveries as the administrative coverage is based on projections from the 2010 census. Programme reports one month national level vaccine stockout. Adjustment of official estimate from administrative coverage is based on the number of actual deliveries rather than a projection from the 2010 census. However, the one-time

use of actual deliveries as the target population rather than the projections from the census creates a slight discontinuity that is reflective of a data correction rather than a change in programme performance. GoC=Assigned by working group. Inconsistent information between reported data and independent assessments across the time series.

2014: Estimate informed by reported data. Fluctuations attributed to small birth cohort and incomplete subnational reporting. GoC=Assigned by working group. Inconsistent information between reported data and independent assessments across the time series.

2013: Estimate informed by reported data. GoC=Assigned by working group. Inconsistent information between reported data and independent assessments across the time series.

# Kiribati - IPV1



	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Estimate	-	-	52	81	87	92	92	83	78	94	87	94
Estimate GoC	-	-	•	•	•	•	•	•	•	•	•	•
Official	-	-	98	-	87	92	92	83	78	94	-	94
Administrative	-	-	99	81	87	92	92	83	78	94	87	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.

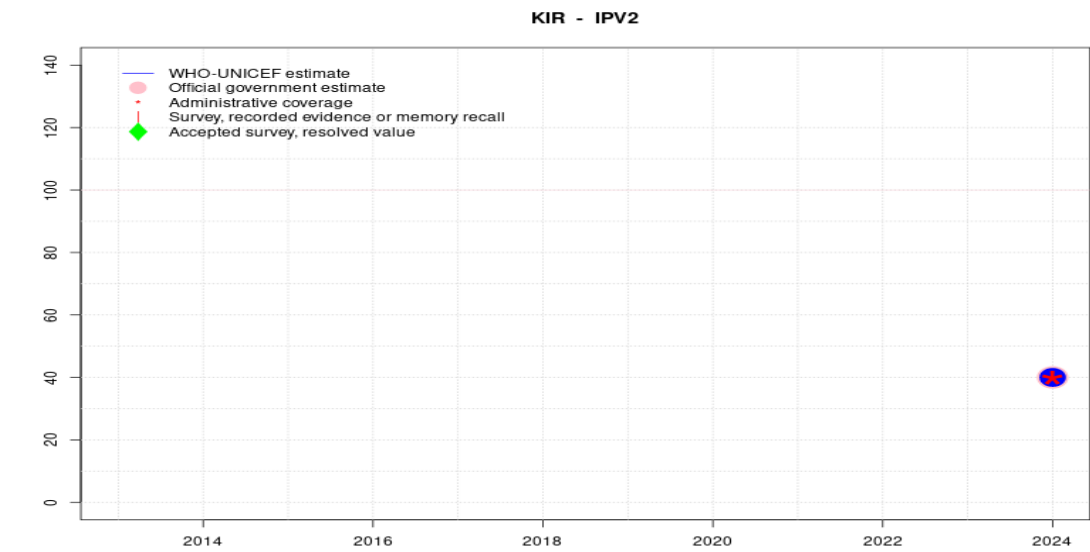
- Estimate is supported by reported data [R+], coverage recalculated with an independent denominator from the World Population Prospects: 2024 revision from the UN Population Division (D+), and at least one supporting survey within 2 years [S+]. While well supported, the estimate still carries a risk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

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: Reported coverage in proportions. No nationally representative household survey for the most recent 5 annual birth cohorts. WHO and UNICEF recommend a high quality survey to verify reported levels of coverage. GoC=Assigned by working group. Inconsistent information between reported data and independent assessments across the time series.
- 2023: Estimate informed by reported administrative data. GoC=Assigned by working group. Inconsistent information between reported data and independent assessments across the time series.
- 2022: Estimate informed by reported data. Results from the 2018-19 Social Development Indicator Survey suggest coverage levels that are much lower than that reported by the country. Given the differences between survey results and reported data, estimates are likely overestimated. Reported data suggests recovery from prior supply disruption. GoC=Assigned by working group. Inconsistent information between reported data and independent assessments across the time series.
- 2021: Estimate informed by reported data. Programme reports six month vaccine stockout at national level. GoC=Assigned by working group. Inconsistent information between reported data and independent assessments across the time series.
- 2020: Estimate informed by reported data. Programme reports three months vaccine stockout. GoC=Assigned by working group. Inconsistent information between reported data and independent assessments across the time series.
- 2019: Estimate informed by reported data. GoC=Assigned by working group. Inconsistent information between reported data and independent assessments across the time series.
- 2018: Estimate informed by reported data. GoC=Assigned by working group. Inconsistent information between reported data and independent assessments across the time series.
- 2017: Estimate informed by reported data. GoC=Assigned by working group. Inconsistent information between reported data and independent assessments across the time series.
- 2016: Estimate informed by reported administrative data. Decline in reported target population for 2016 compared to 2015 is unexplained. Estimate informed by reported coverage following introduction period. GoC=Assigned by working group. Inconsistent information between reported data and independent assessments across the time series.
- 2015: Inactivated polio vaccine introduced in June 2015. Programme reports 98 percent coverage in 53 percent of the national target population. Estimate informed by the total annual national target population. Programme notes their official estimates are based on actual deliveries as the administrative coverage is based on projections from the 2010 census. Adjustment of official estimate from administrative coverage is based on the number of actual deliveries rather than a projection from the 2010 census. However, the one-time use of actual deliveries as the target population rather than the projections from the census creates a slight discontinuity that is reflective of a data correction rather than a change in programme performance. GoC=Assigned by working group. Inconsistent information between reported data and independent assessments across the time series.

# Kiribati - IPV2



## Description:

2024: Reported coverage in proportions. No nationally representative household survey for the most recent 5 annual birth cohorts. WHO and UNICEF recommend a high quality survey to verify reported levels of coverage. Second dose of IPV introduced in 2024. GoC=Assigned by working group. Inconsistent information between reported data and independent assessments across the time series.

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Estimate	-	-	-	-	-	-	-	-	-	-	-	40
Estimate GoC	-	-	-	-	-	-	-	-	-	-	-	●
Official	-	-	-	-	-	-	-	-	-	-	-	40
Administrative	-	-	-	-	-	-	-	-	-	-	-	40
Survey	-	-	-	-	-	-	-	-	-	-	-	-

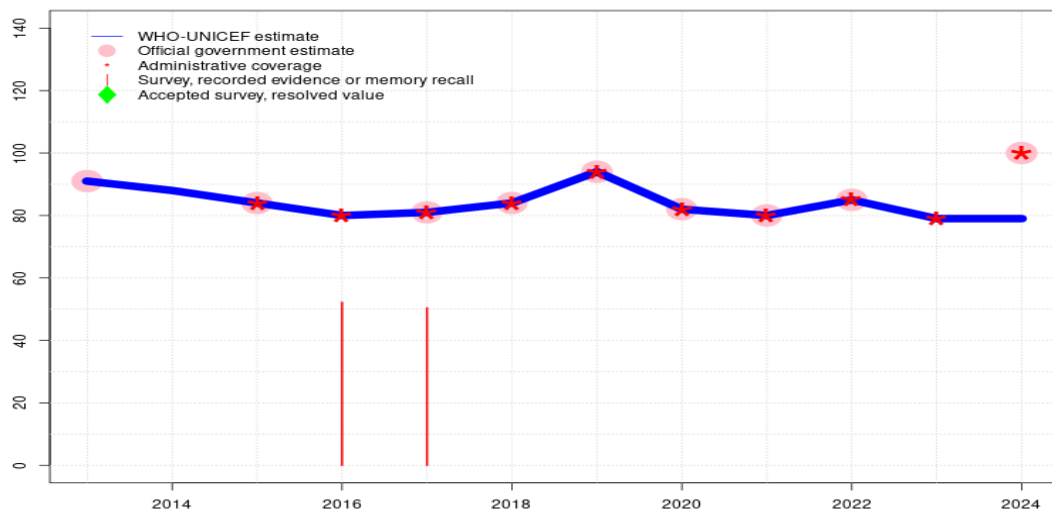
The WHO and UNICEF estimates of national immunization coverage (wuenic) are based on data and information that are of varying, and, in some instances, unknown quality. Beginning with the 2011 revision we describe the grade of confidence (GoC) we have in these estimates. As there is no underlying probability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

# Kiribati - MCV1

KIR - MCV1



	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Estimate	91	88	84	80	81	84	94	82	80	85	79	79
Estimate GoC	●	●	●	●	●	●	●	●	●	●	●	●
Official	91	-	84	-	81	84	94	82	80	85	-	100
Administrative	-	-	84	80	81	84	94	82	80	85	79	100
Survey	-	-	-	52	50	-	-	-	-	-	-	-

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 due to sudden change in coverage from 79 to 100 percent. No nationally representative household survey for the most recent 5 annual birth cohorts. WHO and UNICEF recommend a high quality survey to verify reported levels of coverage. GoC=Assigned by working group. Inconsistent information between reported data and independent assessments across the time series.
- 2023: Estimate informed by reported administrative data. GoC=Assigned by working group. Inconsistent information between reported data and independent assessments across the time series.
- 2022: Estimate informed by reported data. Results from the 2018-19 Social Development Indicator Survey suggest coverage levels that are much lower than that reported by the country. Given the differences between survey results and reported data, estimates are likely over-estimated. GoC=Assigned by working group. Inconsistent information between reported data and independent assessments across the time series.
- 2021: Estimate informed by reported data. GoC=Assigned by working group. Inconsistent information between reported data and independent assessments across the time series.
- 2020: Estimate informed by reported data. Estimate informed by reported data consistent with other antigens. GoC=Assigned by working group. Inconsistent information between reported data and independent assessments across the time series.
- 2019: Estimate informed by reported data. GoC=Assigned by working group. Inconsistent information between reported data and independent assessments across the time series.
- 2018: Estimate informed by reported data. GoC=Assigned by working group. Inconsistent information between reported data and independent assessments across the time series.
- 2017: Estimate informed by reported data. Kiribati Social Development Indicator Survey 2018-19 results ignored by working group. GoC=Assigned by working group. Inconsistent information between reported data and independent assessments across the time series.
- 2016: Estimate informed by reported administrative data. Kiribati Social Development Indicator Survey 2018-19 results ignored by working group. Decline in reported target population for 2016 compared to 2015 is unexplained. GoC=Assigned by working group. Inconsistent information between reported data and independent assessments across the time series.
- 2015: Estimate informed by reported administrative data. Programme notes their official estimates are based on actual deliveries as the administrative coverage is based on projections from the 2010 census. Adjustment of official estimate from administrative coverage is based on the number of actual deliveries rather than a projection from the 2010 census. However, the one-time use of actual deliveries as the target population rather than the projections from the census creates a slight discontinuity that is reflective of a data correction rather than a change in programme performance. GoC=Assigned by working group. Inconsistent information between reported data and independent assessments across the time series.
- 2014: Estimate informed by interpolation between reported data. Fluctuations attributed to

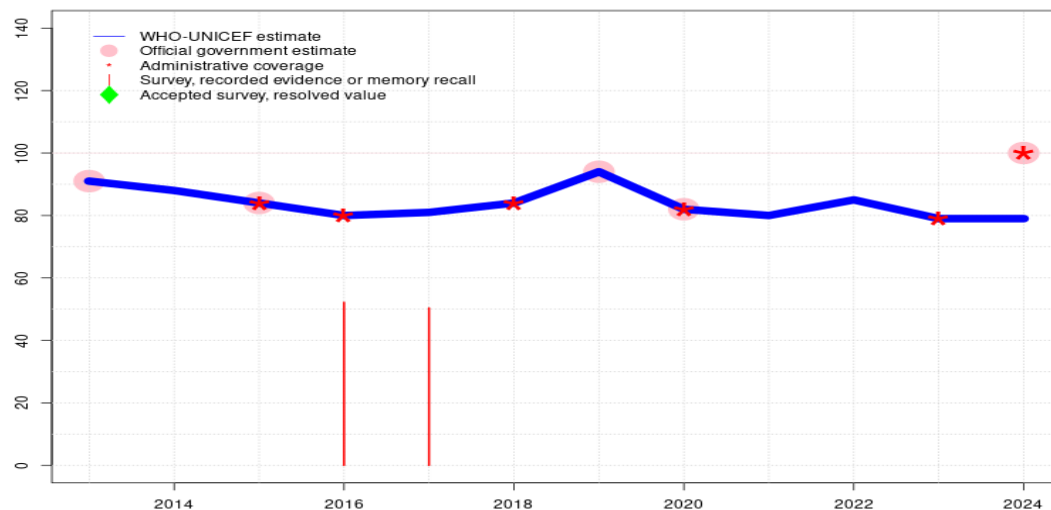
small birth cohort and incomplete subnational reporting. GoC=Assigned by working group. Inconsistent information between reported data and independent assessments across the time series.

2013: Estimate informed by reported data. GoC=Assigned by working group. Inconsistent information between reported data and independent assessments across the time series.



# Kiribati - RCV1

KIR - RCV1



	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Estimate	91	88	84	80	81	84	94	82	80	85	79	79
Estimate GoC	•	•	•	•	•	•	•	•	•	•	•	•
Official	91	-	84	-	-	-	94	82	-	-	-	100
Administrative	-	-	84	80	-	84	-	82	-	-	79	100
Survey	-	-	-	52	50	-	-	-	-	-	-	-

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.

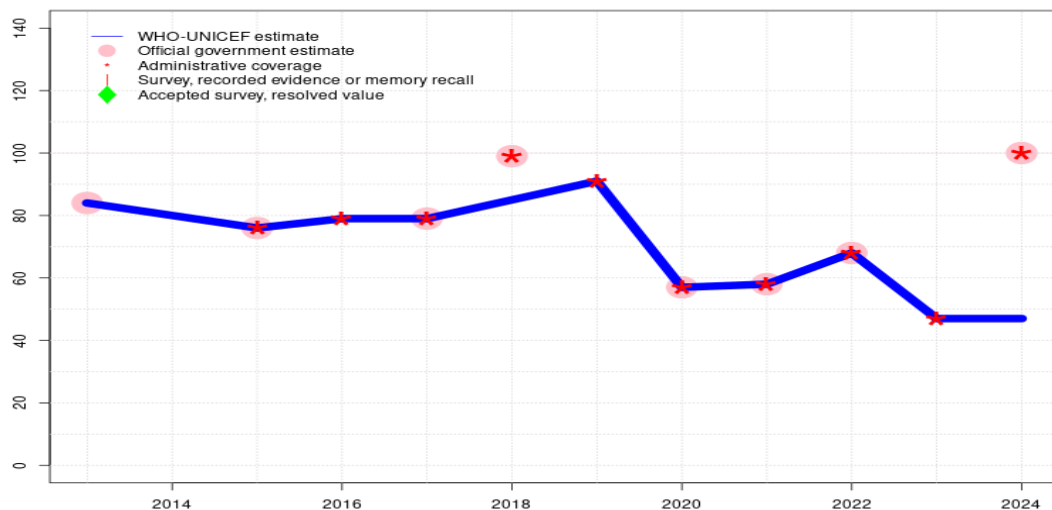
In all cases these estimates should be used with caution and should be assessed in light of the objective for which they are being used.

## Description:

- 2024: Estimate based on previous years estimate. Reported data excluded due to sudden change in coverage from 79 to 100 percent. No nationally representative household survey for the most recent 5 annual birth cohorts. WHO and UNICEF recommend a high quality survey to verify reported levels of coverage. GoC=Assigned by working group. Inconsistent information between reported data and independent assessments across the time series.
- 2023: Estimate based on estimated MCV1. GoC=Assigned by working group. Inconsistent information between reported data and independent assessments across the time series.
- 2022: Estimate based on estimated MCV1. Results from the 2018-19 Social Development Indicator Survey suggest coverage levels that are much lower than that reported by the country. Given the differences between survey results and reported data, estimates are likely overestimated. GoC=Assigned by working group. Inconsistent information between reported data and independent assessments across the time series.
- 2021: Estimate based on estimated MCV1. GoC=Assigned by working group. Inconsistent information between reported data and independent assessments across the time series.
- 2020: Estimate based on estimated MCV1. GoC=Assigned by working group. Inconsistent information between reported data and independent assessments across the time series.
- 2019: Estimate based on estimated MCV1. GoC=Assigned by working group. Inconsistent information between reported data and independent assessments across the time series.
- 2018: Estimate based on estimated MCV1. GoC=Assigned by working group. Inconsistent information between reported data and independent assessments across the time series.
- 2017: Estimate based on estimated MCV1. Kiribati Social Development Indicator Survey 2018-19 results ignored by working group. GoC=Assigned by working group. Inconsistent information between reported data and independent assessments across the time series.
- 2016: Estimate based on estimated MCV1. Kiribati Social Development Indicator Survey 2018-19 results ignored by working group. Decline in reported target population for 2016 compared to 2015 is unexplained. GoC=Assigned by working group. Inconsistent information between reported data and independent assessments across the time series.
- 2015: Estimate based on estimated MCV1. Programme notes their official estimates are based on actual deliveries as the administrative coverage is based on projections from the 2010 census. Adjustment of official estimate from administrative coverage is based on the number of actual deliveries rather than a projection from the 2010 census. However, the one-time use of actual deliveries as the target population rather than the projections from the census creates a slight discontinuity that is reflective of a data correction rather than a change in programme performance. GoC=Assigned by working group. Inconsistent information between reported data and independent assessments across the time series.
- 2014: Estimate based on estimated MCV1. Fluctuations attributed to small birth cohort and incomplete subnational reporting. GoC=Assigned by working group. Inconsistent information between reported data and independent assessments across the time series.
- 2013: Estimate based on estimated MCV1. GoC=Assigned by working group. Inconsistent information between reported data and independent assessments across the time series.

# Kiribati - MCV2

KIR - MCV2



	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Estimate	84	80	76	79	79	85	91	57	58	68	47	47
Estimate GoC	•	•	•	•	•	•	•	•	•	•	•	•
Official	84	-	76	-	79	99	-	57	58	68	-	100
Administrative	-	-	76	79	79	99	91	57	58	68	47	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 based on previous years estimate. Reported data excluded due to sudden change in coverage from 47 to 100 percent. No nationally representative household survey for the most recent 5 annual birth cohorts. WHO and UNICEF recommend a high quality survey to verify reported levels of coverage. GoC=Assigned by working group. Inconsistent information between reported data and independent assessments across the time series.
- 2023: Estimate informed by reported administrative data. GoC=Assigned by working group. Inconsistent information between reported data and independent assessments across the time series.
- 2022: Estimate informed by reported data. Results from the 2018-19 Social Development Indicator Survey suggest coverage levels that are much lower than that reported by the country. Given the differences between survey results and reported data, estimates are likely overestimated. GoC=Assigned by working group. Inconsistent information between reported data and independent assessments across the time series.
- 2021: Estimate informed by reported data. GoC=Assigned by working group. Inconsistent information between reported data and independent assessments across the time series.
- 2020: Estimate informed by reported data. Estimate informed by reported data consistent with other antigens. GoC=Assigned by working group. Inconsistent information between reported data and independent assessments across the time series.
- 2019: Estimate informed by reported administrative data. GoC=Assigned by working group. Inconsistent information between reported data and independent assessments across the time series.
- 2018: Estimate informed by interpolation between reported data. Reported data excluded. Unexplained increase in the reported number of children vaccinated. GoC=Assigned by working group. Inconsistent information between reported data and independent assessments across the time series.
- 2017: Estimate informed by reported data. GoC=Assigned by working group. Inconsistent information between reported data and independent assessments across the time series.
- 2016: Estimate informed by reported administrative data. Decline in reported target population for 2016 compared to 2015 is unexplained. GoC=Assigned by working group. Inconsistent information between reported data and independent assessments across the time series.
- 2015: Estimate informed by reported administrative data. Programme notes their official estimates are based on actual deliveries as the administrative coverage is based on projections from the 2010 census. Adjustment of official estimate from administrative coverage is based on the number of actual deliveries rather than a projection from the 2010 census. However, the one-time use of actual deliveries as the target population rather than the projections from the census creates a slight discontinuity that is reflective of a data correction rather than a change in programme performance. GoC=Assigned by working group. Inconsistent information between reported data and independent assessments across the time series.

# Kiribati - MCV2

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- 2014: Estimate informed by interpolation between reported data. Fluctuations attributed to small birth cohort and incomplete subnational reporting. GoC=Assigned by working group. Inconsistent information between reported data and independent assessments across the time series.
- 2013: Estimate informed by reported data. Fluctuations attributed to small birth cohort. GoC=Assigned by working group. Inconsistent information between reported data and independent assessments across the time series.

# Kiribati - Survey Details

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

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

## 2017 Kiribati Social Development Indicator Survey 2018-19

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Evidence seen
BCG	Recall	39.7	12-23 m	460	21
BCG	Record	20.7	12-23 m	460	21
BCG	Record or Recall	60.4	12-23 m	460	21
BCG	Record or Recall<12m	60.4	12-23 m	460	21
DTP1	Recall	38.8	12-23 m	460	21
DTP1	Record	21	12-23 m	460	21
DTP1	Record or Recall	59.9	12-23 m	460	21
DTP1	Record or Recall<12m	59	12-23 m	460	21
DTP3	Recall	32.8	12-23 m	460	21
DTP3	Record	19.8	12-23 m	460	21
DTP3	Record or Recall	52.5	12-23 m	460	21
DTP3	Record or Recall<12m	52.2	12-23 m	460	21
HEPB1	Recall	38.8	12-23 m	460	21
HEPB1	Record	21	12-23 m	460	21
HEPB1	Record or Recall	59.9	12-23 m	460	21
HEPB1	Record or Recall<12m	59	12-23 m	460	21
HEPB3	Recall	32.8	12-23 m	460	21
HEPB3	Record	19.8	12-23 m	460	21
HEPB3	Record or Recall	52.5	12-23 m	460	21

HEPB3	Record or Recall<12m	52.2	12-23 m	460	21
HIB1	Recall	38.8	12-23 m	460	21
HIB1	Record	21	12-23 m	460	21
HIB1	Record or Recall	59.9	12-23 m	460	21
HIB1	Record or Recall<12m	59	12-23 m	460	21
HIB3	Recall	32.8	12-23 m	460	21
HIB3	Record	19.8	12-23 m	460	21
HIB3	Record or Recall	52.5	12-23 m	460	21
HIB3	Record or Recall<12m	52.2	12-23 m	460	21
MCV1	Recall	39	12-23 m	460	21
MCV1	Record	11.4	12-23 m	460	21
MCV1	Record or Recall	50.4	12-23 m	460	21
PCV1	Recall	37.8	12-23 m	460	21
PCV1	Record	21	12-23 m	460	21
PCV1	Record or Recall	58.9	12-23 m	460	21
PCV1	Record or Recall<12m	58	12-23 m	460	21
PCV3	Recall	32.2	12-23 m	460	21
PCV3	Record	20.1	12-23 m	460	21
PCV3	Record or Recall	52.3	12-23 m	460	21
PCV3	Record or Recall<12m	51.9	12-23 m	460	21
POL1	Recall	35.2	12-23 m	460	21
POL1	Record	21	12-23 m	460	21
POL1	Record or Recall	56.2	12-23 m	460	21
POL1	Record or Recall<12m	55.4	12-23 m	460	21
POL3	Recall	8.5	12-23 m	460	21
POL3	Record	19.8	12-23 m	460	21
POL3	Record or Recall	28.3	12-23 m	460	21
POL3	Record or Recall<12m	28.1	12-23 m	460	21
RCV1	Recall	39	12-23 m	460	21
RCV1	Record	11.4	12-23 m	460	21
RCV1	Record or Recall	50.4	12-23 m	460	21
ROTAC	Recall	32.9	12-23 m	460	21
ROTAC	Record	20.5	12-23 m	460	21
ROTAC	Record or Recall	53.4	12-23 m	460	21
ROTAC	Record or Recall<12m	52.3	12-23 m	460	21

## 2016 Kiribati Social Development Indicator Survey 2018-19

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Evidence seen
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# Kiribati - Survey Details

BCG	Recall	47.6	24-35 m	419	-
BCG	Record	9.8	24-35 m	419	-
BCG	Record or Recall	57.4	24-35 m	419	-
BCG	Record or Recall<12m	57.4	24-35 m	419	-
DTP1	Recall	44.9	24-35 m	419	-
DTP1	Record	9.6	24-35 m	419	-
DTP1	Record or Recall	54.5	24-35 m	419	-
DTP3	Recall	38.3	24-35 m	419	-
DTP3	Record	8.9	24-35 m	419	-
DTP3	Record or Recall	47.2	24-35 m	419	-
DTP3	Record or Recall<12m	46.2	24-35 m	419	-
HEPB1	Recall	44.9	24-35 m	419	-
HEPB1	Record	9.6	24-35 m	419	-
HEPB1	Record or Recall	54.5	24-35 m	419	-
HEPB3	Recall	38.3	24-35 m	419	-
HEPB3	Record	8.9	24-35 m	419	-
HEPB3	Record or Recall	47.2	24-35 m	419	-
HEPB3	Record or Recall<12m	46.2	24-35 m	419	-
HIB1	Recall	44.9	24-35 m	419	-
HIB1	Record	9.6	24-35 m	419	-
HIB1	Record or Recall	54.5	24-35 m	419	-
HIB3	Recall	38.3	24-35 m	419	-
HIB3	Record	8.9	24-35 m	419	-
HIB3	Record or Recall	47.2	24-35 m	419	-
HIB3	Record or Recall<12m	46.2	24-35 m	419	-
MCV1	Recall	45.7	24-35 m	419	-
MCV1	Record	6.5	24-35 m	419	-
MCV1	Record or Recall	52.2	24-35 m	419	-
MCV1	Record or Recall<12m	52.2	24-35 m	419	-
PCV1	Recall	44.5	24-35 m	419	-
PCV1	Record	9.6	24-35 m	419	-
PCV1	Record or Recall	54.2	24-35 m	419	-
PCV1	Record or Recall<12m	54.2	24-35 m	419	-
PCV3	Recall	36.8	24-35 m	419	-
PCV3	Record	8.4	24-35 m	419	-
PCV3	Record or Recall	45.2	24-35 m	419	-
PCV3	Record or Recall<12m	45.2	24-35 m	419	-
POL1	Recall	44.2	24-35 m	419	-
POL1	Record	9.6	24-35 m	419	-
POL1	Record or Recall	53.9	24-35 m	419	-

POL1	Record or Recall<12m	53.9	24-35 m	419	-
POL3	Recall	10.1	24-35 m	419	-
POL3	Record	8.6	24-35 m	419	-
POL3	Record or Recall	18.7	24-35 m	419	-
POL3	Record or Recall<12m	18.7	24-35 m	419	-
RCV1	Recall	45.7	24-35 m	419	-
RCV1	Record	6.5	24-35 m	419	-
RCV1	Record or Recall	52.2	24-35 m	419	-
RCV1	Record or Recall<12m	52.2	24-35 m	419	-
ROTAC	Recall	40.8	24-35 m	419	-
ROTAC	Record	9.3	24-35 m	419	-
ROTAC	Record or Recall	50.1	24-35 m	419	-
ROTAC	Record or Recall<12m	50.1	24-35 m	419	-

## 2008 Kiribati Demographic and Health Survey 2009

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Evidence seen
BCG	Recall	68.9	12-23 m	181	22
BCG	Record	20.5	12-23 m	52	22
BCG	Record or Recall	89.4	12-23 m	233	22
BCG	Record or Recall<12m	87.9	12-23 m	233	22
DTP1	Recall	65.6	12-23 m	181	22
DTP1	Record	16.6	12-23 m	52	22
DTP1	Record or Recall	82.2	12-23 m	233	22
DTP1	Record or Recall<12m	80.5	12-23 m	233	22
DTP3	Recall	47.7	12-23 m	181	22
DTP3	Record	13.8	12-23 m	52	22
DTP3	Record or Recall	61.4	12-23 m	233	22
DTP3	Record or Recall<12m	58.3	12-23 m	233	22
HEPB1	Recall	65.6	12-23 m	181	22
HEPB1	Record	16.6	12-23 m	52	22
HEPB1	Record or Recall	82.2	12-23 m	233	22
HEPB1	Record or Recall<12m	80.5	12-23 m	233	22
HEPB3	Recall	47.7	12-23 m	181	22
HEPB3	Record	13.8	12-23 m	52	22
HEPB3	Record or Recall	61.4	12-23 m	233	22
HEPB3	Record or Recall<12m	58.3	12-23 m	233	22
HIB1	Recall	65.6	12-23 m	181	22
HIB1	Record	16.6	12-23 m	52	22

HIB1	Record or Recall	82.2	12-23 m	233	22
HIB1	Record or Recall<12m	80.5	12-23 m	233	22
HIB3	Recall	47.7	12-23 m	181	22
HIB3	Record	13.8	12-23 m	52	22
HIB3	Record or Recall	61.4	12-23 m	233	22
HIB3	Record or Recall<12m	58.3	12-23 m	233	22
MCV1	Recall	60.3	12-23 m	181	22
MCV1	Record	8.8	12-23 m	52	22
MCV1	Record or Recall	69.1	12-23 m	233	22
MCV1	Record or Recall<12m	10.7	12-23 m	233	22
POL1	Recall	60.8	12-23 m	181	22
POL1	Record	20.8	12-23 m	52	22
POL1	Record or Recall	81.6	12-23 m	233	22
POL1	Record or Recall<12m	80.2	12-23 m	233	22
POL3	Recall	31.5	12-23 m	181	22
POL3	Record	16.6	12-23 m	52	22
POL3	Record or Recall	48.1	12-23 m	233	22
POL3	Record or Recall<12m	42.8	12-23 m	233	22

2007 Kiribati Demographic and Health Survey 2009

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Evidence seen
BCG	Record or Recall<12m	83.7	24-35 m	202	-
DTP1	Record or Recall<12m	81.9	24-35 m	202	-
DTP3	Record or Recall<12m	50.1	24-35 m	202	-
MCV1	Record or Recall<12m	7.2	24-35 m	202	-

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

POL1	Record or Recall<12m	79	24-35 m	202	-
POL3	Record or Recall<12m	37.3	24-35 m	202	-

2006 Kiribati Demographic and Health Survey 2009

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Evidence seen
BCG	Record or Recall<12m	82	36-47 m	200	-
DTP1	Record or Recall<12m	83.6	36-47 m	200	-
DTP3	Record or Recall<12m	42	36-47 m	200	-
MCV1	Record or Recall<12m	11.5	36-47 m	200	-
POL1	Record or Recall<12m	79.9	36-47 m	200	-
POL3	Record or Recall<12m	42.7	36-47 m	200	-

2005 Kiribati Demographic and Health Survey 2009

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Evidence seen
BCG	Record or Recall<12m	71.7	48-59 m	181	-
DTP1	Record or Recall<12m	66	48-59 m	181	-
DTP3	Record or Recall<12m	32	48-59 m	181	-
MCV1	Record or Recall<12m	14.6	48-59 m	181	-
POL1	Record or Recall<12m	60.3	48-59 m	181	-
POL3	Record or Recall<12m	22.8	48-59 m	181	-