

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.

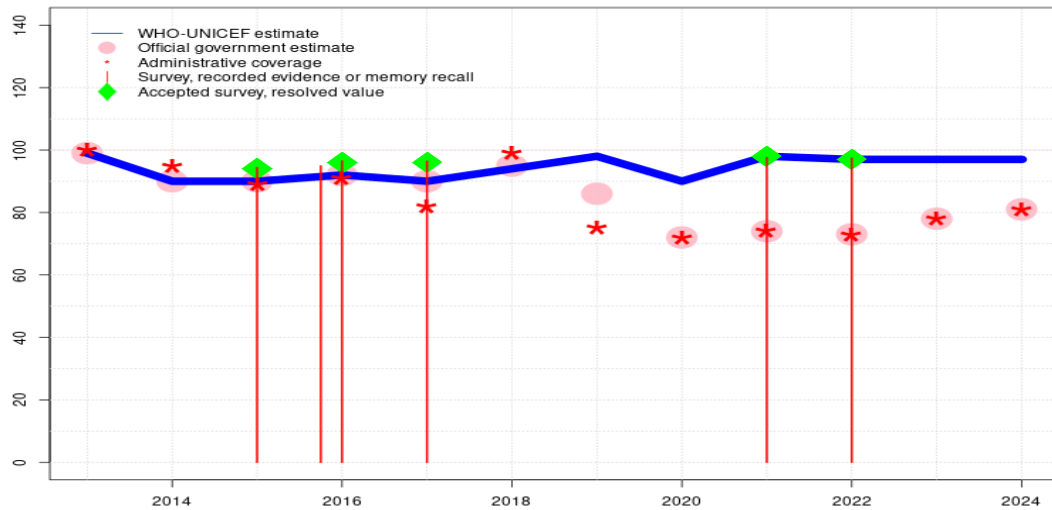
YFV: percentage of surviving infants who received one dose of yellow fever vaccine in countries where YFV is part of the national immunization schedule for children or is recommended in at risk areas; coverage estimates are annualized for the entire cohort of surviving infants.

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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Sierra Leone - BCG

SLE - BCG



	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Estimate	99	90	90	92	90	94	98	90	98	97	97	97
Estimate GoC	●●●	●●●	●	●	●	●	●	●	●	●	●	●
Official	99	90	90	92	90	95	86	72	74	73	78	81
Administrative	100	95	89	91	82	99	75	72	74	73	78	81
Survey	-	-	94	*	96	-	-	-	98	97	-	-

The WHO and UNICEF estimates of national immunization coverage (wuenic) are based on data and information that are of varying, and, in some instances, unknown quality. Beginning with the 2011 revision we describe the grade of confidence (GoC) we have in these estimates. As there is no underlying probability model upon which the estimates are based, we are unable to present classical measures of uncertainty, e.g., confidence intervals. Moreover, we have chosen not to make subjective estimates of plausibility/certainty ranges around the coverage. The GoC reflects the degree of empirical support upon which the estimates are based. It is not a judgment of the quality of data reported by national authorities.

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

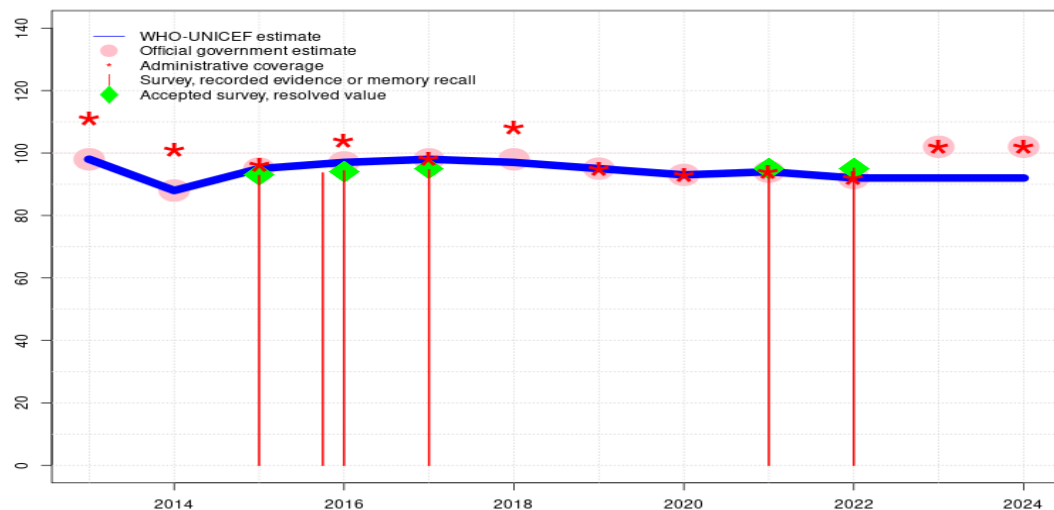
In all cases these estimates should be used with caution and should be assessed in light of the objective for which they are being used.

Description:

- 2024: Reported data calibrated to 2022 levels. Reported data excluded. Large increases in reported coverage for some vaccines are unexplained. Estimated coverage may underestimate actual coverage for some antigens where increases in reported coverage reflect better performance. Estimate challenged by: D-R-
- 2023: Reported data calibrated to 2022 levels. Reported data excluded. Large increases in reported coverage for some vaccines are unexplained. Estimated coverage may underestimate actual coverage for some antigens where increases in reported coverage reflect better performance. Estimate of 97 percent changed from previous revision value of 78 percent. Estimate challenged by: R-
- 2022: Survey evidence does not support reported data. Estimate based on survey result. Survey evidence of 97 percent based on 1 survey(s). Consistent lower coverage for BCG than for other vaccines in recent years is unexplained. Estimate of 97 percent changed from previous revision value of 73 percent. Estimate challenged by: R-
- 2021: Survey evidence does not support reported data. Estimate based on survey result. Survey evidence of 98 percent based on 1 survey(s). Estimate of 98 percent changed from previous revision value of 74 percent. Estimate challenged by: R-
- 2020: Reported data calibrated to 2017 and 2021 levels. Country indicates that the decline in coverage is related to the COVID-19 pandemic. Estimate of 90 percent changed from previous revision value of 72 percent. Estimate challenged by: R-
- 2019: Reported data calibrated to 2017 and 2021 levels. Estimate of 98 percent changed from previous revision value of 86 percent. GoC=Assigned by working group. Consistency across antigens.
- 2018: Reported data calibrated to 2017 and 2021 levels. Reported data excluded. Reported coverage inconsistent with unexplained decrease of 15 percent in the reported target population accompanied by a decrease in the reported number of administered doses. Estimate of 94 percent changed from previous revision value of 88 percent. GoC=Assigned by working group. Consistency across antigens.
- 2017: Estimate informed by reported data supported by survey. Survey evidence of 96 percent based on 1 survey(s). GoC=Assigned by working group. Consistency across antigens.
- 2016: Estimate informed by reported data supported by survey. Survey evidence of 96 percent based on 2 survey(s). Estimate challenged by: D-
- 2015: Estimate informed by reported data supported by survey. Survey evidence of 94 percent based on 1 survey(s). Estimate challenged by: D-
- 2014: Estimate informed by reported data. Reported declines in reported coverage due in part to Ebola virus disease outbreak during 2014. Inconsistent and unexplained adjustment made to official coverage from administrative data. GoC=R+ S+ D+
- 2013: Estimate informed by reported data. Official estimate based on 2013 survey results. GoC=R+ S+ D+

Sierra Leone - DTP1

SLE - DTP1



	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Estimate	98	88	95	97	98	97	95	93	94	92	92	92
Estimate GoC	●	●	●	●	●	●	●	●	●	●	●	●
Official	98	88	95	97	98	98	95	93	94	92	102	102
Administrative	111	101	96	104	98	108	95	93	94	92	102	102
Survey	-	-	93	*	95	-	-	-	95	95	-	-

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.

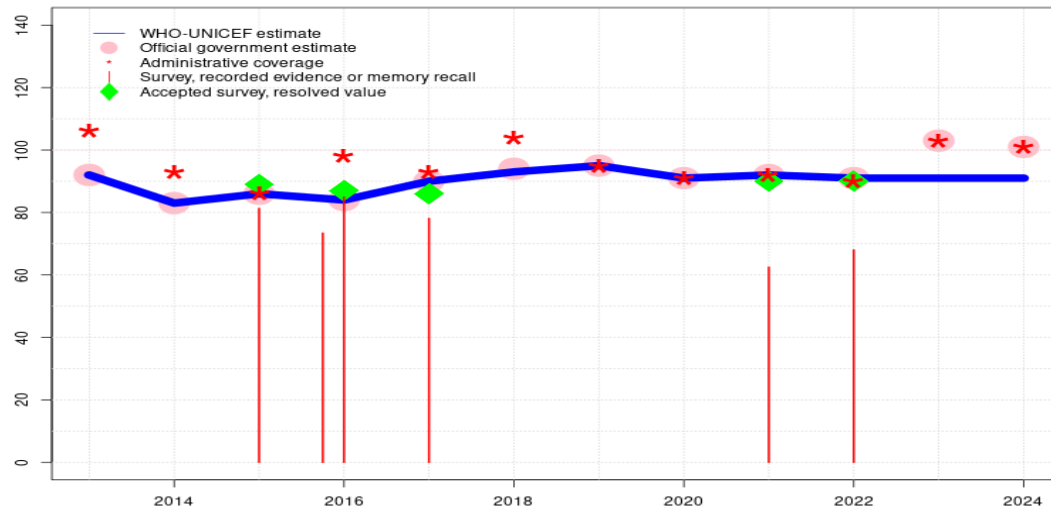
In all cases these estimates should be used with caution and should be assessed in light of the objective for which they are being used.

Description:

- 2024: Estimate based on extrapolation from data reported by national government. Reported data excluded. Large increases in reported coverage for some vaccines are unexplained. Estimated coverage may underestimate actual coverage for some antigens where increases in reported coverage reflect better performance. Reported data excluded because 102 percent greater than 100 percent. Estimate challenged by: D-
- 2023: Estimate based on extrapolation from data reported by national government. Reported data excluded. Large increases in reported coverage for some vaccines are unexplained. Estimated coverage may underestimate actual coverage for some antigens where increases in reported coverage reflect better performance. Reported data excluded because 102 percent greater than 100 percent. Estimate challenged by: D-
- 2022: Estimate informed by reported data supported by survey. Survey evidence of 95 percent based on 1 survey(s). Estimate challenged by: D-
- 2021: Estimate informed by reported data supported by survey. Survey evidence of 95 percent based on 1 survey(s). Estimate challenged by: D-
- 2020: Estimate informed by reported data. Estimate challenged by: D-
- 2019: Estimate informed by reported data. Estimate challenged by: D-
- 2018: Estimate informed by interpolation between reported data. Reported data excluded. Reported coverage inconsistent with unexplained decrease of 15 percent in the reported target population accompanied by a decrease in the reported number of administered doses. GoC=Assigned by working group. Consistency of available information across antigens.
- 2017: Estimate informed by reported data supported by survey. Survey evidence of 95 percent based on 1 survey(s). Estimate challenged by: D-
- 2016: Estimate informed by reported data supported by survey. Survey evidence of 94 percent based on 2 survey(s). Estimate challenged by: D-
- 2015: Estimate informed by reported data supported by survey. Survey evidence of 93 percent based on 1 survey(s). Estimate challenged by: D-
- 2014: Estimate informed by reported data. Reported declines in reported coverage due in part to Ebola virus disease outbreak during 2014. Inconsistent and unexplained adjustment made to official coverage from administrative data. Estimate challenged by: D-
- 2013: Estimate informed by reported data. Official estimate based on 2013 survey results. Estimate challenged by: D-

Sierra Leone - DTP3

SLE - DTP3



	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Estimate	92	83	86	84	90	93	95	91	92	91	91	91
Estimate GoC	●	●	●	●	●	●	●	●	●	●	●	●
Official	92	83	86	84	90	94	95	91	92	91	103	101
Administrative	106	93	86	98	93	104	95	91	92	90	103	101
Survey	-	-	81	*	78	-	-	-	63	68	-	-

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. Large increases in reported coverage for some vaccines are unexplained. Estimated coverage may underestimate actual coverage for some antigens where increases in reported coverage reflect better performance. Reported data excluded because 101 percent greater than 100 percent. Estimate challenged by: D-
- 2023: Estimate based on extrapolation from data reported by national government. Reported data excluded. Large increases in reported coverage for some vaccines are unexplained. Estimated coverage may underestimate actual coverage for some antigens where increases in reported coverage reflect better performance. Reported data excluded because 103 percent greater than 100 percent. Estimate challenged by: D-
- 2022: Estimate informed by reported data supported by survey. Survey evidence of 90 percent based on 1 survey(s). Sierra Leone Immunization Coverage Survey 2024 (SLICS 2024) record or recall results of 68 percent modified for recall bias to 90 percent based on 1st dose record or recall coverage of 95 percent, 1st dose record only coverage of 56 percent and 3rd dose record only coverage of 53 percent. Estimate challenged by: D-
- 2021: Estimate informed by reported data supported by survey. Survey evidence of 90 percent based on 1 survey(s). Sierra Leone Immunization Coverage Survey 2024 (SLICS 2024) record or recall results of 63 percent modified for recall bias to 90 percent based on 1st dose record or recall coverage of 95 percent, 1st dose record only coverage of 41 percent and 3rd dose record only coverage of 39 percent. Estimate challenged by: D-
- 2020: Estimate informed by reported data. Estimate challenged by: D-
- 2019: Estimate informed by reported data. Estimate challenged by: D-
- 2018: Estimate informed by interpolation between reported data. Reported data excluded. Reported coverage inconsistent with unexplained decrease of 15 percent in the reported target population accompanied by a decrease in the reported number of administered doses. GoC=Assigned by working group. Consistency of available information across antigens.
- 2017: Estimate informed by reported data supported by survey. Survey evidence of 86 percent based on 1 survey(s). Sierra Leone Demographic and Health Survey 2019 record or recall results of 78 percent modified for recall bias to 86 percent based on 1st dose record or recall coverage of 95 percent, 1st dose record only coverage of 74 percent and 3rd dose record only coverage of 67 percent. Estimate challenged by: D-
- 2016: Estimate informed by reported data supported by survey. Survey evidence of 87 percent based on 2 survey(s). Sierra Leone Multiple Indicator Cluster Survey 2017 record or recall results of 85 percent modified for recall bias to 88 percent based on 1st dose record or recall coverage of 94 percent, 1st dose record only coverage of 80 percent and 3rd dose record only coverage of 75 percent. Sierra Leone Demographic and Health Survey 2019 record or recall results of 73 percent modified for recall bias to 86 percent based on 1st dose record or recall coverage of 94 percent, 1st dose record only coverage of 61 percent and 3rd dose record only coverage of 56 percent. Estimate challenged by: D-
- 2015: Estimate informed by reported data supported by survey. Survey evidence of 89 percent

Sierra Leone - DTP3

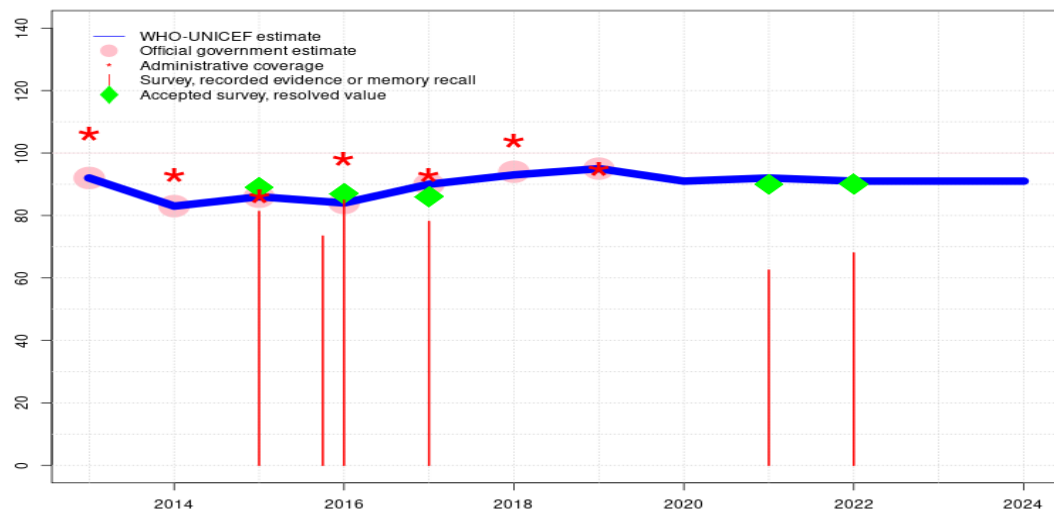
based on 1 survey(s). Sierra Leone Multiple Indicator Cluster Survey 2017 record or recall results of 81 percent modified for recall bias to 89 percent based on 1st dose record or recall coverage of 93 percent, 1st dose record only coverage of 67 percent and 3rd dose record only coverage of 64 percent. Estimate challenged by: D-

2014: Estimate informed by reported data. Reported declines in reported coverage due in part to Ebola virus disease outbreak during 2014. Inconsistent and unexplained adjustment made to official coverage from administrative data. Estimate challenged by: D-

2013: Estimate informed by reported data. Official estimate based on 2013 survey results. Estimate challenged by: D-

Sierra Leone - HEPB3

SLE - HEPB3



	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Estimate	92	83	86	84	90	93	95	91	92	91	91	91
Estimate GoC	●	●	●	●	●	●	●	●●	●●	●●	●●	●●
Official	92	83	86	84	90	94	95	-	-	-	-	-
Administrative	106	93	86	98	93	104	95	-	-	-	-	-
Survey	-	-	81	*	78	-	-	-	63	68	-	-

The WHO and UNICEF estimates of national immunization coverage (wuenic) are based on data and information that are of varying, and, in some instances, unknown quality. Beginning with the 2011 revision we describe the grade of confidence (GoC) we have in these estimates. As there is no underlying probability model upon which the estimates are based, we are unable to present classical measures of uncertainty, e.g., confidence intervals. Moreover, we have chosen not to make subjective estimates of plausibility/certainty ranges around the coverage. The GoC reflects the degree of empirical support upon which the estimates are based. It is not a judgment of the quality of data reported by national authorities.

- Estimate is supported by reported data [R+], coverage recalculated with an independent denominator from the World Population Prospects: 2024 revision from the UN Population Division (D+), and at least one supporting survey within 2 years [S+]. While well supported, the estimate still carries a risk of being wrong.
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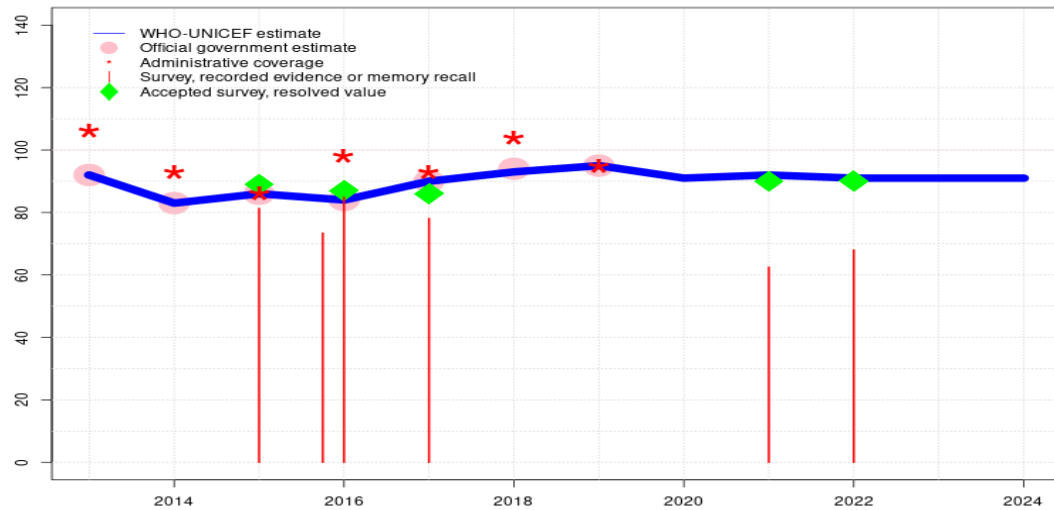
In all cases these estimates should be used with caution and should be assessed in light of the objective for which they are being used.

Description:

- 2024: Estimate based on DTP3 coverage estimate. GoC=S+
- 2023: Estimate informed by estimated DTP3 coverage. GoC=S+
- 2022: Estimate informed by estimated DTP3 coverage. Sierra Leone Immunization Coverage Survey 2024 (SLICS 2024) record or recall results of 68 percent modified for recall bias to 90 percent based on 1st dose record or recall coverage of 95 percent, 1st dose record only coverage of 56 percent and 3rd dose record only coverage of 53 percent. GoC=S+
- 2021: Estimate informed by estimated DTP3 coverage. Sierra Leone Immunization Coverage Survey 2024 (SLICS 2024) record or recall results of 63 percent modified for recall bias to 90 percent based on 1st dose record or recall coverage of 95 percent, 1st dose record only coverage of 41 percent and 3rd dose record only coverage of 39 percent. GoC=S+
- 2020: Estimate informed by estimated DTP3 coverage. GoC=S+
- 2019: Estimate informed by reported data. GoC=Assigned by working group. Consistency across antigens.
- 2018: Estimate informed by interpolation between reported data. Reported data excluded. Reported coverage inconsistent with unexplained decrease of 15 percent in the reported target population accompanied by a decrease in the reported number of administered doses. GoC=Assigned by working group. Consistency of available information across antigens.
- 2017: Estimate informed by reported data supported by survey.Survey evidence of 86 percent based on 1 survey(s). Sierra Leone Demographic and Health Survey 2019 record or recall results of 78 percent modified for recall bias to 86 percent based on 1st dose record or recall coverage of 95 percent, 1st dose record only coverage of 74 percent and 3rd dose record only coverage of 67 percent. Estimate challenged by: D-
- 2016: Estimate informed by reported data supported by survey.Survey evidence of 87 percent based on 2 survey(s). Sierra Leone Multiple Indicator Cluster Survey 2017 record or recall results of 85 percent modified for recall bias to 88 percent based on 1st dose record or recall coverage of 94 percent, 1st dose record only coverage of 80 percent and 3rd dose record only coverage of 75 percent.Sierra Leone Demographic and Health Survey 2019 record or recall results of 73 percent modified for recall bias to 86 percent based on 1st dose record or recall coverage of 94 percent, 1st dose record only coverage of 61 percent and 3rd dose record only coverage of 56 percent. Estimate challenged by: D-
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- 2013: Estimate informed by reported data. Official estimate based on 2013 survey results. Estimate challenged by: D-

Sierra Leone - HIB3

SLE - HIB3



	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Estimate	92	83	86	84	90	93	95	91	92	91	91	91
Estimate GoC	•	•	•	•	•	•	•	••	••	••	••	••
Official	92	83	86	84	90	94	95	-	-	-	-	-
Administrative	106	93	86	98	93	104	95	-	-	-	-	-
Survey	-	-	81	*	78	-	-	-	63	68	-	-

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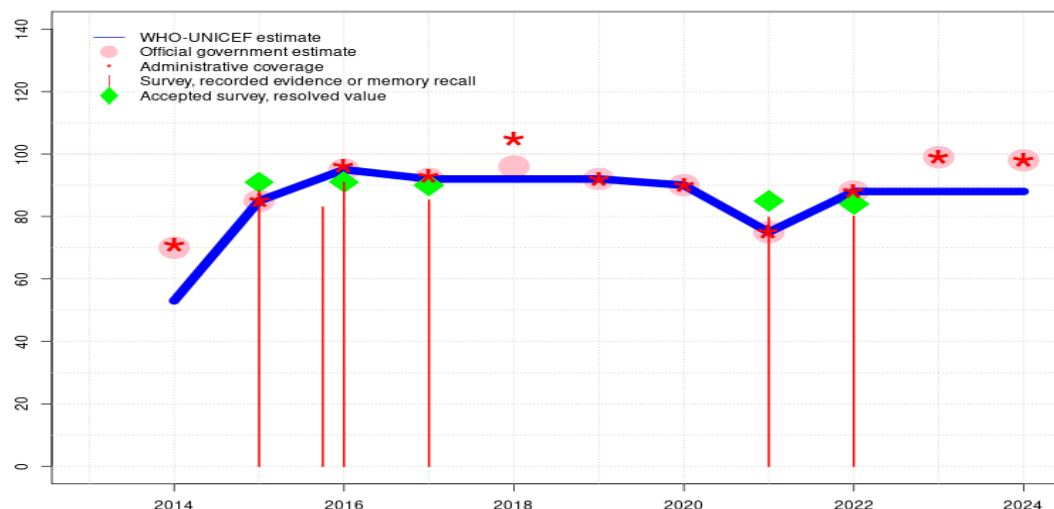
In all cases these estimates should be used with caution and should be assessed in light of the objective for which they are being used.

Description:

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- 2023: Estimate informed by estimated DTP3 coverage. GoC=S+
- 2022: Estimate informed by estimated DTP3 coverage. Sierra Leone Immunization Coverage Survey 2024 (SLICS 2024) record or recall results of 68 percent modified for recall bias to 90 percent based on 1st dose record or recall coverage of 95 percent, 1st dose record only coverage of 56 percent and 3rd dose record only coverage of 53 percent. GoC=S+
- 2021: Estimate informed by estimated DTP3 coverage. Sierra Leone Immunization Coverage Survey 2024 (SLICS 2024) record or recall results of 63 percent modified for recall bias to 90 percent based on 1st dose record or recall coverage of 95 percent, 1st dose record only coverage of 41 percent and 3rd dose record only coverage of 39 percent. GoC=S+
- 2020: Estimate informed by estimated DTP3 coverage. GoC=S+
- 2019: Estimate informed by reported data. GoC=Assigned by working group. Consistency across antigens.
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Sierra Leone - ROTAC

SLE - ROTAC



	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Estimate	-	53	85	95	92	92	92	90	75	88	88	88
Estimate GoC	-	•	•	•	•	•	•	•	•	•	•	•
Official	-	70	85	95	92	96	92	90	75	88	99	98
Administrative	-	71	85	96	93	105	92	90	75	88	99	98
Survey	-	-	88	*	85	-	-	-	80	80	-	-

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. Large increases in reported coverage for some vaccines are unexplained. Estimated coverage may underestimate actual coverage for some antigens where increases in reported coverage reflect better performance. Estimate challenged by: D-
- 2023: Estimate based on extrapolation from data reported by national government. Reported data excluded. Large increases in reported coverage for some vaccines are unexplained. Estimated coverage may underestimate actual coverage for some antigens where increases in reported coverage reflect better performance. Estimate challenged by: D-
- 2022: Estimate informed by reported data supported by survey. Survey evidence of 84 percent based on 1 survey(s). Sierra Leone Immunization Coverage Survey 2024 (SLICS 2024) record or recall results of 80 percent modified for recall bias to 84 percent based on 1st dose record or recall coverage of 87 percent, 1st dose record only coverage of 56 percent and 3rd dose record only coverage of 54 percent. Estimate challenged by: D-
- 2021: Estimate informed by reported data supported by survey. Survey evidence of 85 percent based on 1 survey(s). Sierra Leone Immunization Coverage Survey 2024 (SLICS 2024) record or recall results of 80 percent modified for recall bias to 85 percent based on 1st dose record or recall coverage of 87 percent, 1st dose record only coverage of 41 percent and 3rd dose record only coverage of 40 percent. Programme reports a subnational level vaccine stockout of unspecified duration. Estimate challenged by: D-
- 2020: Estimate informed by reported data. Programme reports a subnational level vaccine stockout of unspecified duration. Estimate challenged by: D-
- 2019: Estimate informed by reported data. Estimate challenged by: D-
- 2018: Estimate informed by interpolation between reported data. Reported data excluded. Reported coverage inconsistent with unexplained decrease of 15 percent in the reported target population accompanied by a decrease in the reported number of administered doses. GoC=Assigned by working group. Consistency in GoC between vaccine doses.
- 2017: Estimate informed by reported data supported by survey. Survey evidence of 90 percent based on 1 survey(s). Sierra Leone Demographic and Health Survey 2019 record or recall results of 85 percent modified for recall bias to 90 percent based on 1st dose record or recall coverage of 94 percent, 1st dose record only coverage of 73 percent and 3rd dose record only coverage of 70 percent. Estimate challenged by: D-
- 2016: Estimate informed by reported data supported by survey. Survey evidence of 91 percent based on 2 survey(s). Sierra Leone Multiple Indicator Cluster Survey 2017 record or recall results of 91 percent modified for recall bias to 92 percent based on 1st dose record or recall coverage of 94 percent, 1st dose record only coverage of 80 percent and 3rd dose record only coverage of 78 percent. Sierra Leone Demographic and Health Survey 2019 record or recall results of 83 percent modified for recall bias to 90 percent based on 1st dose record or recall coverage of 93 percent, 1st dose record only coverage of 60 percent and 3rd dose record only coverage of 58 percent. Estimate challenged by: D-
- 2015: Following introduction, programme reports delivery to national target population. Sierra Leone Multiple Indicator Cluster Survey 2017 record or recall results of 88 percent modi-

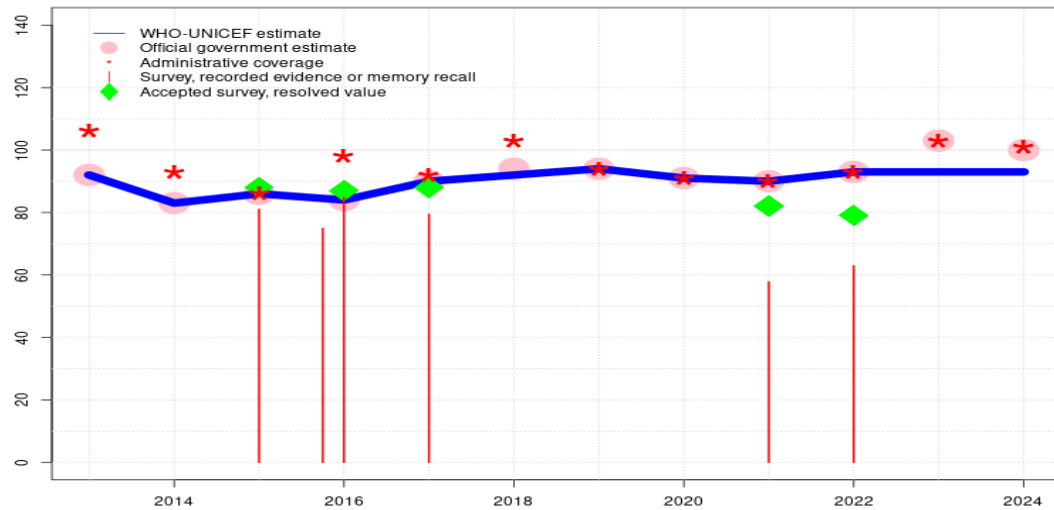
Sierra Leone - ROTAC

fied for recall bias to 91 percent based on 1st dose record or recall coverage of 92 percent, 1st dose record only coverage of 67 percent and 3rd dose record only coverage of 66 percent. Estimate challenged by: D-

2014: Estimate of 53 percent assigned by working group. Rotavirus vaccine introduced in 2014. Programme achieved 71 percent coverage among 75 percent of the target population. Estimate informed by national target population. Reported declines in reported coverage due in part to Ebola virus disease outbreak during 2014. Inconsistent and unexplained adjustment made to official coverage from administrative data. Estimate challenged by: R-S-

Sierra Leone - PCV3

SLE - PCV3



	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Estimate	92	83	86	84	90	92	94	91	90	93	93	93
Estimate GoC	●	●	●	●	●	●	●	●	●	●	●	●
Official	92	83	86	84	90	94	94	91	90	93	103	100
Administrative	106	93	86	98	92	103	94	91	90	93	103	101
Survey	-	-	81	*	79	-	-	-	58	63	-	-

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 reported coverage. Reported data excluded. Large increases in reported coverage for some vaccines are unexplained. Estimated coverage may underestimate actual coverage for some antigens where increases in reported coverage reflect better performance. Estimate challenged by: D-S-
- 2023: Estimate based on reported coverage. Reported data excluded. Large increases in reported coverage for some vaccines are unexplained. Estimated coverage may underestimate actual coverage for some antigens where increases in reported coverage reflect better performance. Reported data excluded because 103 percent greater than 100 percent. Estimate challenged by: D-S-
- 2022: Estimate based on reported coverage. Sierra Leone Immunization Coverage Survey 2024 (SLICS 2024) record or recall results of 63 percent modified for recall bias to 79 percent based on 1st dose record or recall coverage of 84 percent, 1st dose record only coverage of 54 percent and 3rd dose record only coverage of 51 percent. Estimate challenged by: D-S-
- 2021: Estimate informed by reported data supported by survey. Survey evidence of 82 percent based on 1 survey(s). Sierra Leone Immunization Coverage Survey 2024 (SLICS 2024) record or recall results of 58 percent modified for recall bias to 82 percent based on 1st dose record or recall coverage of 84 percent, 1st dose record only coverage of 39 percent and 3rd dose record only coverage of 38 percent. Estimate challenged by: D-S-
- 2020: Estimate informed by reported data. Estimate challenged by: D-S-
- 2019: Estimate informed by reported data. Estimate challenged by: D-S-
- 2018: Estimate informed by interpolation between reported data. Reported data excluded. Reported coverage inconsistent with unexplained decrease of 15 percent in the reported target population accompanied by a decrease in the reported number of administered doses. GoC=Assigned by working group. Consistency of available information across antigens.
- 2017: Estimate informed by reported data supported by survey. Survey evidence of 88 percent based on 1 survey(s). Sierra Leone Demographic and Health Survey 2019 record or recall results of 79 percent modified for recall bias to 88 percent based on 1st dose record or recall coverage of 94 percent, 1st dose record only coverage of 73 percent and 3rd dose record only coverage of 68 percent. Estimate challenged by: D-
- 2016: Estimate informed by reported data supported by survey. Survey evidence of 87 percent based on 2 survey(s). Sierra Leone Multiple Indicator Cluster Survey 2017 record or recall results of 85 percent modified for recall bias to 88 percent based on 1st dose record or recall coverage of 94 percent, 1st dose record only coverage of 80 percent and 3rd dose record only coverage of 75 percent. Sierra Leone Demographic and Health Survey 2019 record or recall results of 75 percent modified for recall bias to 86 percent based on 1st dose record or recall coverage of 94 percent, 1st dose record only coverage of 61 percent and 3rd dose record only coverage of 56 percent. Estimate challenged by: D-
- 2015: Estimate informed by reported data supported by survey. Survey evidence of 88 percent based on 1 survey(s). Sierra Leone Multiple Indicator Cluster Survey 2017 record or

Sierra Leone - PCV3

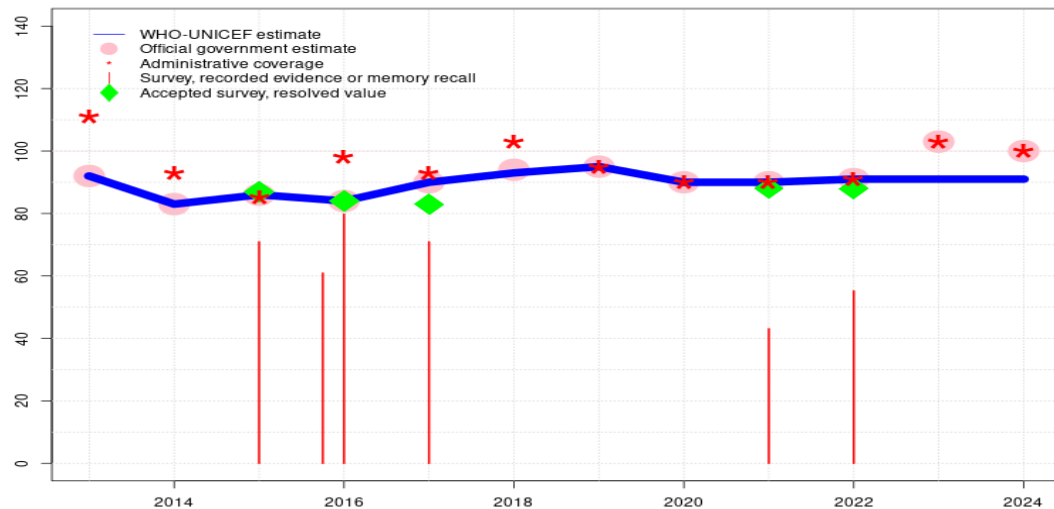
recall results of 81 percent modified for recall bias to 88 percent based on 1st dose record or recall coverage of 92 percent, 1st dose record only coverage of 67 percent and 3rd dose record only coverage of 64 percent. Estimate challenged by: D-

2014: Estimate informed by reported data. Reported declines in reported coverage due in part to Ebola virus disease outbreak during 2014. Inconsistent and unexplained adjustment made to official coverage from administrative data. Estimate challenged by: D-

2013: Estimate informed by reported data. Official estimate based on 2013 survey results. Estimate challenged by: D-

Sierra Leone - POL3

SLE - POL3



	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Estimate	92	83	86	84	90	93	95	90	90	91	91	91
Estimate GoC	•	•	•	•	•	•	•	•	•	•	•	•
Official	92	83	86	84	90	94	95	90	90	91	103	100
Administrative	111	93	85	98	93	103	95	90	90	91	103	100
Survey	-	-	71	*	71	-	-	-	43	55	-	-

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. Large increases in reported coverage for some vaccines are unexplained. Estimated coverage may underestimate actual coverage for some antigens where increases in reported coverage reflect better performance. Estimate challenged by: D-
- 2023: Estimate based on extrapolation from data reported by national government. Reported data excluded. Large increases in reported coverage for some vaccines are unexplained. Estimated coverage may underestimate actual coverage for some antigens where increases in reported coverage reflect better performance. Reported data excluded because 103 percent greater than 100 percent. Estimate challenged by: D-
- 2022: Estimate informed by reported data supported by survey. Survey evidence of 88 percent based on 1 survey(s). Sierra Leone Immunization Coverage Survey 2024 (SLICS 2024) record or recall results of 55 percent modified for recall bias to 88 percent based on 1st dose record or recall coverage of 93 percent, 1st dose record only coverage of 56 percent and 3rd dose record only coverage of 53 percent. Estimate challenged by: D-
- 2021: Estimate informed by reported data supported by survey. Survey evidence of 88 percent based on 1 survey(s). Sierra Leone Immunization Coverage Survey 2024 (SLICS 2024) record or recall results of 43 percent modified for recall bias to 88 percent based on 1st dose record or recall coverage of 92 percent, 1st dose record only coverage of 41 percent and 3rd dose record only coverage of 39 percent. Estimate challenged by: D-
- 2020: Estimate informed by reported data. Estimate challenged by: D-
- 2019: Estimate informed by reported data. Estimate challenged by: D-S-
- 2018: Estimate informed by interpolation between reported data. Reported data excluded. Reported coverage inconsistent with unexplained decrease of 15 percent in the reported target population accompanied by a decrease in the reported number of administered doses. GoC=Assigned by working group. Consistency of available information across antigens.
- 2017: Estimate informed by reported data supported by survey. Survey evidence of 83 percent based on 1 survey(s). Sierra Leone Demographic and Health Survey 2019 record or recall results of 71 percent modified for recall bias to 83 percent based on 1st dose record or recall coverage of 90 percent, 1st dose record only coverage of 74 percent and 3rd dose record only coverage of 68 percent. Estimate challenged by: D-
- 2016: Estimate informed by reported data supported by survey. Survey evidence of 84 percent based on 2 survey(s). Sierra Leone Multiple Indicator Cluster Survey 2017 record or recall results of 80 percent modified for recall bias to 88 percent based on 1st dose record or recall coverage of 94 percent, 1st dose record only coverage of 79 percent and 3rd dose record only coverage of 74 percent. Sierra Leone Demographic and Health Survey 2019 record or recall results of 61 percent modified for recall bias to 79 percent based on 1st dose record or recall coverage of 86 percent, 1st dose record only coverage of 62 percent and 3rd dose record only coverage of 57 percent. Estimate challenged by: D-
- 2015: Estimate informed by reported data supported by survey. Survey evidence of 87 percent based on 1 survey(s). Sierra Leone Multiple Indicator Cluster Survey 2017 record or

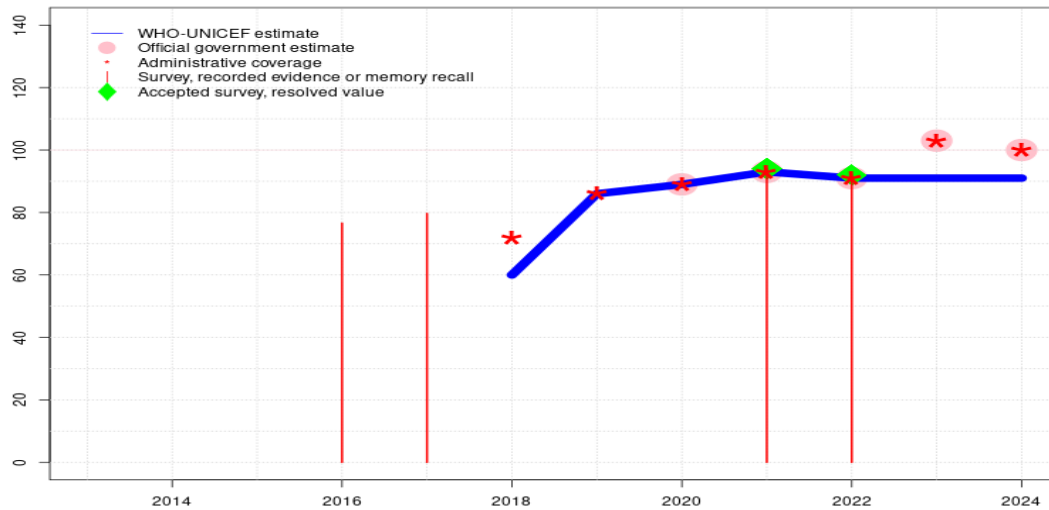
recall results of 71 percent modified for recall bias to 87 percent based on 1st dose record or recall coverage of 93 percent, 1st dose record only coverage of 67 percent and 3rd dose record only coverage of 63 percent. Estimate challenged by: D-

2014: Estimate informed by reported data. Reported declines in reported coverage due in part to Ebola virus disease outbreak during 2014. Inconsistent and unexplained adjustment made to official coverage from administrative data. Estimate challenged by: D-

2013: Estimate informed by reported data. Official estimate based on 2013 survey results. Estimate challenged by: D-

Sierra Leone - IPV1

SLE - IPV1



Description:

- 2024: Estimate based on extrapolation from data reported by national government. Reported data excluded. Large increases in reported coverage for some vaccines are unexplained. Estimated coverage may underestimate actual coverage for some antigens where increases in reported coverage reflect better performance. Estimate challenged by: D-
- 2023: Estimate based on extrapolation from data reported by national government. Reported data excluded. Large increases in reported coverage for some vaccines are unexplained. Estimated coverage may underestimate actual coverage for some antigens where increases in reported coverage reflect better performance. Reported data excluded because 103 percent greater than 100 percent. Estimate challenged by: D-
- 2022: Estimate informed by reported data supported by survey. Survey evidence of 92 percent based on 1 survey(s). Estimate challenged by: D-
- 2021: Estimate informed by reported data supported by survey. Survey evidence of 94 percent based on 1 survey(s). Estimate challenged by: D-
- 2020: Estimate informed by reported data. Estimate challenged by: D-
- 2019: Estimate informed by reported administrative data. Estimate challenged by: D-
- 2018: Inactivated polio vaccine introduced in February 2018. Estimate based on estimated DTP3 adjusted for the difference between reported administered doses for DTP3 and IPV1. Programme reports vaccine stockout of less than two months duration. Reported data excluded. Reported coverage inconsistent with unexplained decrease of 15 percent in the reported target population accompanied by a decrease in the reported number of administered doses. It is unclear how DHS collected IPV vaccine data for children born three years before the survey given the reported timing of vaccine introduction. Estimate challenged by: R-

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Estimate	-	-	-	-	-	60	86	89	93	91	91	91
Estimate GoC	-	-	-	-	-	•	•	•	•	•	•	•
Official	-	-	-	-	-	-	-	89	93	91	103	100
Administrative	-	-	-	-	-	72	86	89	93	91	103	100
Survey	-	-	-	77	80	-	-	-	94	92	-	-

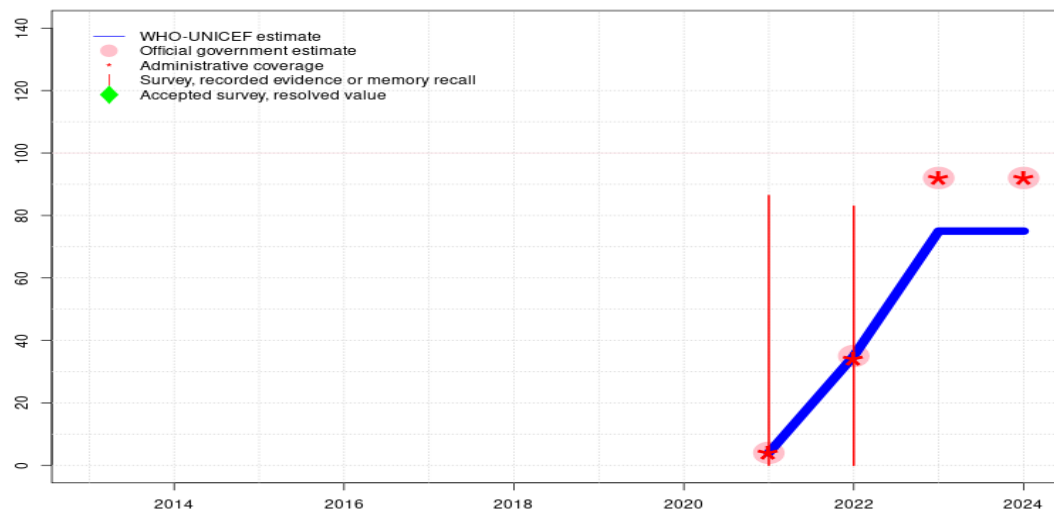
The WHO and UNICEF estimates of national immunization coverage (wuenic) are based on data and information that are of varying, and, in some instances, unknown quality. Beginning with the 2011 revision we describe the grade of confidence (GoC) we have in these estimates. As there is no underlying probability model upon which the estimates are based, we are unable to present classical measures of uncertainty, e.g., confidence intervals. Moreover, we have chosen not to make subjective estimates of plausibility/certainty ranges around the coverage. The GoC reflects the degree of empirical support upon which the estimates are based. It is not a judgment of the quality of data reported by national authorities.

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

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

Sierra Leone - IPV2

SLE - IPV2



Description:

- 2024: Estimate based on previous year estimate. Reported data excluded. Large increases in reported coverage for some vaccines are unexplained. Estimated coverage may underestimate actual coverage for some antigens where increases in reported coverage reflect better performance. Estimate challenged by: D-R-
- 2023: Estimated coverage based on reported coverage for MCV1 and IPV2 applied to the estimated MCV1 coverage. Reported data excluded. Large increases in reported coverage for some vaccines are unexplained. Estimated coverage may underestimate actual coverage for some antigens where increases in reported coverage reflect better performance. Estimate challenged by: D-R-
- 2022: Estimate informed by reported data. Sierra Leone Immunization Coverage Survey 2024 (SLICS 2024) results ignored by working group. Survey results inconsistent with vaccine introduction. GoC=R+ D+
- 2021: Estimate informed by reported data. Sierra Leone Immunization Coverage Survey 2024 (SLICS 2024) results ignored by working group. Survey results inconsistent with vaccine introduction. 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	-	-	-	-	-	-	-	-	4	35	75	75
Estimate GoC	-	-	-	-	-	-	-	-	••	••	•	•
Official	-	-	-	-	-	-	-	-	4	35	92	92
Administrative	-	-	-	-	-	-	-	-	4	34	92	92
Survey	-	-	-	-	-	-	-	-	86	83	-	-

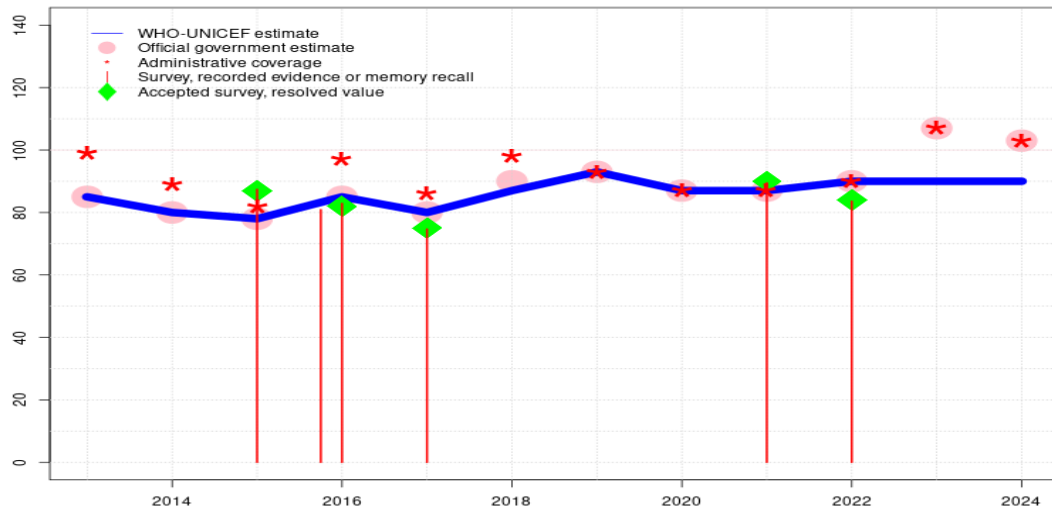
The WHO and UNICEF estimates of national immunization coverage (wuenic) are based on data and information that are of varying, and, in some instances, unknown quality. Beginning with the 2011 revision we describe the grade of confidence (GoC) we have in these estimates. As there is no underlying probability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

Sierra Leone - MCV1

SLE - MCV1



	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Estimate	85	80	78	85	80	87	93	87	87	90	90	90
Estimate GoC	•	•	•	•	•	•	•	•	•	•	•	•
Official	85	80	78	85	80	90	93	87	87	90	107	103
Administrative	99	89	82	97	86	98	93	87	87	90	107	103
Survey	-	-	87	*	75	-	-	-	90	84	-	-

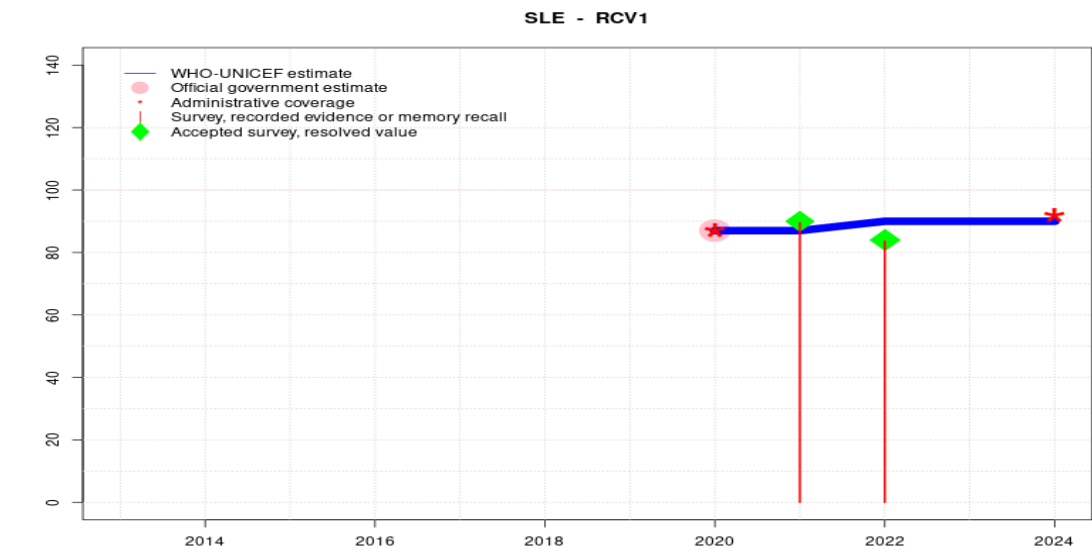
The WHO and UNICEF estimates of national immunization coverage (wuenic) are based on data and information that are of varying, and, in some instances, unknown quality. Beginning with the 2011 revision we describe the grade of confidence (GoC) we have in these estimates. As there is no underlying probability 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. Large increases in reported coverage for some vaccines are unexplained. Estimated coverage may underestimate actual coverage for some antigens where increases in reported coverage reflect better performance. Reported data excluded because 103 percent greater than 100 percent. Estimate challenged by: D-
- 2023: Estimate based on extrapolation from data reported by national government. Reported data excluded. Large increases in reported coverage for some vaccines are unexplained. Estimated coverage may underestimate actual coverage for some antigens where increases in reported coverage reflect better performance. Reported data excluded because 107 percent greater than 100 percent. Estimate challenged by: D-
- 2022: Estimate informed by reported data supported by survey. Survey evidence of 84 percent based on 1 survey(s). Estimate challenged by: D-
- 2021: Estimate informed by reported data supported by survey. Survey evidence of 90 percent based on 1 survey(s). Although not reflected in reported coverage, the number of doses administered increased five percent from 2020 to 2021. Estimate challenged by: D-
- 2020: Estimate informed by reported data. Estimate challenged by: D-
- 2019: Estimate informed by reported data. Estimate challenged by: D-S-
- 2018: Estimate informed by interpolation between reported data. Reported data excluded. Reported coverage inconsistent with unexplained decrease of 15 percent in the reported target population accompanied by a decrease in the reported number of administered doses. GoC=Assigned by working group. Consistency of available information across antigens.
- 2017: Estimate informed by reported data supported by survey. Survey evidence of 75 percent based on 1 survey(s). Estimate challenged by: D-
- 2016: Estimate informed by reported data supported by survey. Survey evidence of 82 percent based on 2 survey(s). Estimate challenged by: D-
- 2015: Estimate informed by reported data supported by survey. Survey evidence of 87 percent based on 1 survey(s). Estimate challenged by: D-
- 2014: Estimate informed by reported data. Reported declines in reported coverage due in part to Ebola virus disease outbreak during 2014. Inconsistent and unexplained adjustment made to official coverage from administrative data. Estimate challenged by: D-
- 2013: Estimate informed by reported data. Official estimate based on 2013 survey results. Estimate challenged by: D-



Description:

2024: Estimate based on estimated MCV1. Reported data excluded. Large increases in reported coverage for some vaccines are unexplained. Estimated coverage may underestimate actual coverage for some antigens where increases in reported coverage reflect better performance. Estimate challenged by: D-

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

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

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

2020: Estimate based on estimated MCV1. MR vaccine introduced in April 2019. Report started in 2020. Estimate challenged by: D-

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Estimate	-	-	-	-	-	-	-	87	87	90	90	90
Estimate GoC	-	-	-	-	-	-	-	●	●	●	●	●
Official	-	-	-	-	-	-	-	87	-	-	-	-
Administrative	-	-	-	-	-	-	-	87	-	-	-	92
Survey	-	-	-	-	-	-	-	-	90	84	-	-

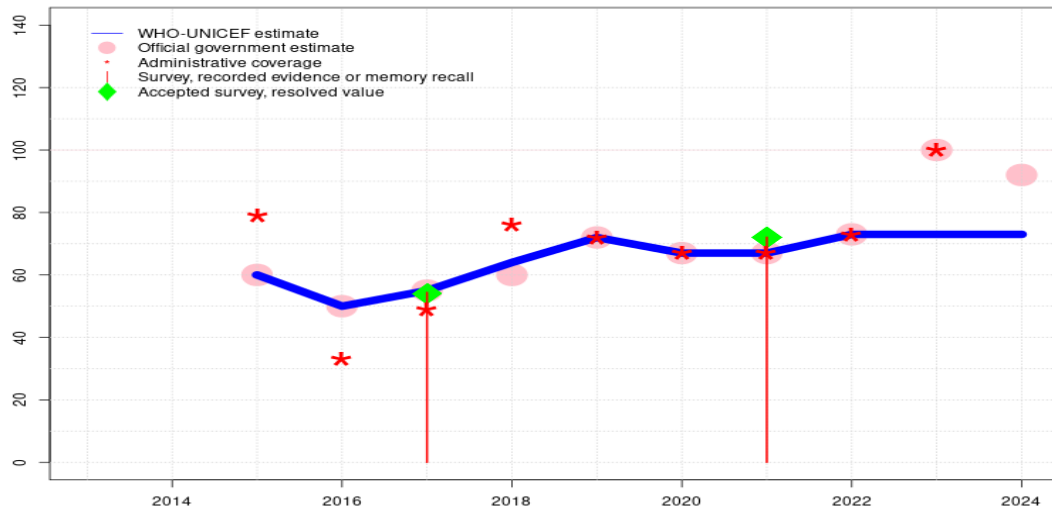
The WHO and UNICEF estimates of national immunization coverage (wuenic) are based on data and information that are of varying, and, in some instances, unknown quality. Beginning with the 2011 revision we describe the grade of confidence (GoC) we have in these estimates. As there is no underlying probability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

Sierra Leone - MCV2

SLE - MCV2



	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Estimate	-	-	60	50	55	64	72	67	67	73	73	73
Estimate GoC	-	-	•	•	•••	•	•	•	•	•	•	••
Official	-	-	60	50	55	60	72	67	67	73	100	92
Administrative	-	-	79	33	49	76	72	67	67	73	100	-
Survey	-	-	-	-	54	-	-	-	72	-	-	-

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.

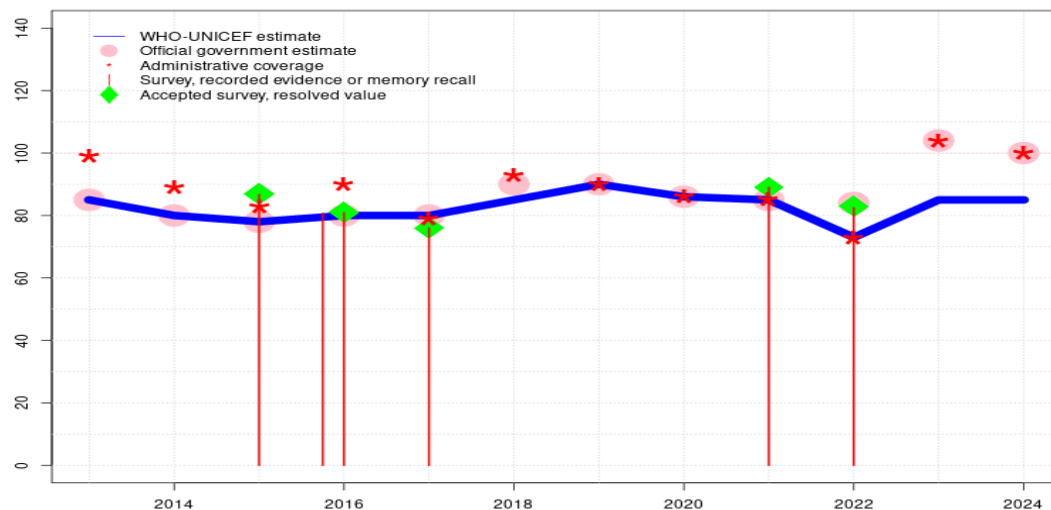
In all cases these estimates should be used with caution and should be assessed in light of the objective for which they are being used.

Description:

- 2024: Estimate based on extrapolation from data reported by national government. Reported data excluded. Large increases in reported coverage for some vaccines are unexplained. Estimated coverage may underestimate actual coverage for some antigens where increases in reported coverage reflect better performance. GoC=R+
- 2023: Estimate based on extrapolation from data reported by national government. Reported data excluded. Large increases in reported coverage for some vaccines are unexplained. Estimated coverage may underestimate actual coverage for some antigens where increases in reported coverage reflect better performance. Estimate challenged by: D-
- 2022: Estimate informed by reported data. Estimate challenged by: D-
- 2021: Estimate informed by reported data supported by survey. Survey evidence of 72 percent based on 1 survey(s). Estimate challenged by: D-
- 2020: Estimate informed by reported data. Estimate challenged by: D-
- 2019: Estimate informed by reported data. Estimate challenged by: D-S-
- 2018: Estimate informed by interpolation between reported data. Reported data excluded. Reported coverage inconsistent with unexplained decrease of 15 percent in the reported target population accompanied by a decrease in the reported number of administered doses. Estimate challenged by: D-
- 2017: Estimate informed by reported data supported by survey. Survey evidence of 54 percent based on 1 survey(s). GoC=R+ S+ D+
- 2016: Estimate informed by reported data. Estimate challenged by: D-
- 2015: Estimate informed by reported data. Measles second dose introduced in November 2015. Estimate challenged by: D-

Sierra Leone - YFV

SLE - YFV



	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Estimate	85	80	78	80	80	85	90	86	85	73	85	85
Estimate GoC	•	•••	•	•	•	•	•	•	•	•	•	•
Official	85	80	78	80	80	90	90	86	85	84	104	100
Administrative	99	89	83	90	79	93	90	86	85	73	104	100
Survey	-	-	87	*	76	-	-	-	89	83	-	-

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 year estimate. Reported data excluded. Large increases in reported coverage for some vaccines are unexplained. Estimated coverage may underestimate actual coverage for some antigens where increases in reported coverage reflect better performance. Estimate challenged by: D-R-
- 2023: Estimate informed by 2021 coverage levels reflecting recovery from vaccine stockout. Reported data excluded. Large increases in reported coverage for some vaccines are unexplained. Estimated coverage may underestimate actual coverage for some antigens where increases in reported coverage reflect better performance. Reported data excluded because 104 percent greater than 100 percent. Estimate challenged by: D-R-
- 2022: Estimate informed by reported administrative data supported by survey. Survey evidence of 83 percent based on 1 survey(s). Programme reports two months vaccine stockout at national and subnational levels. Explanation unavailable for adjustment from administrative coverage to derive official coverage. Estimate challenged by: D-S-
- 2021: Estimate informed by reported data supported by survey. Survey evidence of 89 percent based on 1 survey(s). Estimate challenged by: D-
- 2020: Estimate informed by reported data. Estimate challenged by: D-
- 2019: Estimate informed by reported data. Estimate challenged by: D-S-
- 2018: Estimate informed by interpolation between reported data. Reported data excluded. Reported coverage inconsistent with unexplained decrease of 15 percent in the reported target population accompanied by a decrease in the reported number of administered doses. Programme reports vaccine stockout of less than one month duration. GoC=Assigned by working group. Consistency of available information across antigens.
- 2017: Estimate informed by reported data supported by survey. Survey evidence of 76 percent based on 1 survey(s). Programme reports less than one month stockout. GoC=Assigned by working group. Consistency in GoC between vaccine doses.
- 2016: Estimate informed by reported data supported by survey. Survey evidence of 81 percent based on 2 survey(s). Programme reports two months national stockout. Estimate challenged by: D-
- 2015: Estimate informed by reported data supported by survey. Survey evidence of 87 percent based on 1 survey(s). Estimate challenged by: D-
- 2014: Estimate informed by reported data. Reported declines in reported coverage due in part to Ebola virus disease outbreak during 2014. Inconsistent and unexplained adjustment made to official coverage from administrative data. GoC=R+ S+ D+
- 2013: Estimate informed by reported data. Official estimate based on 2013 survey results. Estimate challenged by: D-

Sierra Leone - 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.

2022 Sierra Leone Immunization Coverage Survey 2024 (SLICS 2024)

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Evidence seen
BCG	Recall	40.6	12-23 m	2313	57
BCG	Record	56.7	12-23 m	2313	57
BCG	Record or Recall	97.4	12-23 m	2313	57
DTP1	Recall	38.9	12-23 m	2313	57
DTP1	Record	56.1	12-23 m	2313	57
DTP1	Record or Recall	95.1	12-23 m	2313	57
DTP3	Recall	15	12-23 m	2313	57
DTP3	Record	53	12-23 m	2313	57
DTP3	Record or Recall	68	12-23 m	2313	57
HEPB1	Recall	38.9	12-23 m	2313	57
HEPB1	Record	56.1	12-23 m	2313	57
HEPB1	Record or Recall	95.1	12-23 m	2313	57
HEPB3	Recall	15	12-23 m	2313	57
HEPB3	Record	53	12-23 m	2313	57
HEPB3	Record or Recall	68	12-23 m	2313	57
HIB1	Recall	38.9	12-23 m	2313	57
HIB1	Record	56.1	12-23 m	2313	57
HIB1	Record or Recall	95.1	12-23 m	2313	57
HIB3	Recall	15	12-23 m	2313	57

HIB3	Record	53	12-23 m	2313	57
HIB3	Record or Recall	68	12-23 m	2313	57
IPV1	Recall	41.1	12-23 m	2313	57
IPV1	Record	51	12-23 m	2313	57
IPV1	Record or Recall	92.1	12-23 m	2313	57
IPV2	Recall	36.7	12-23 m	2313	57
IPV2	Record	46.2	12-23 m	2313	57
IPV2	Record or Recall	83	12-23 m	2313	57
MCV1	Recall	35.3	12-23 m	2313	57
MCV1	Record	48.3	12-23 m	2313	57
MCV1	Record or Recall	83.6	12-23 m	2313	57
PCV1	Recall	29.8	12-23 m	2313	57
PCV1	Record	54.4	12-23 m	2313	57
PCV1	Record or Recall	84.2	12-23 m	2313	57
PCV3	Recall	11.9	12-23 m	2313	57
PCV3	Record	51	12-23 m	2313	57
PCV3	Record or Recall	62.9	12-23 m	2313	57
POL1	Recall	36.7	12-23 m	2313	57
POL1	Record	56.2	12-23 m	2313	57
POL1	Record or Recall	92.9	12-23 m	2313	57
POL3	Recall	2.2	12-23 m	2313	57
POL3	Record	53	12-23 m	2313	57
POL3	Record or Recall	55.2	12-23 m	2313	57
RCV1	Recall	35.3	12-23 m	2313	57
RCV1	Record	48.3	12-23 m	2313	57
RCV1	Record or Recall	83.6	12-23 m	2313	57
ROTAC	Recall	25.8	12-23 m	2313	57
ROTAC	Record	54.3	12-23 m	2313	57
ROTAC	Record or Recall	80.1	12-23 m	2313	57
YFV	Recall	34.5	12-23 m	2313	57
YFV	Record	48	12-23 m	2313	57
YFV	Record or Recall	82.5	12-23 m	2313	57

2021 Sierra Leone Immunization Coverage Survey 2024 (SLICS 2024)

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Evidence seen
BCG	Recall	56.4	24-35 m	2307	41
BCG	Record	41.2	24-35 m	2307	41
BCG	Record or Recall	97.6	24-35 m	2307	41

Sierra Leone - Survey Details

DTP1	Recall	53.8	24-35 m	2307	41
DTP1	Record	41	24-35 m	2307	41
DTP1	Record or Recall	94.8	24-35 m	2307	41
DTP3	Recall	23.4	24-35 m	2307	41
DTP3	Record	39.1	24-35 m	2307	41
DTP3	Record or Recall	62.5	24-35 m	2307	41
HEPB1	Recall	53.8	24-35 m	2307	41
HEPB1	Record	41	24-35 m	2307	41
HEPB1	Record or Recall	94.8	24-35 m	2307	41
HEPB3	Recall	23.4	24-35 m	2307	41
HEPB3	Record	39.1	24-35 m	2307	41
HEPB3	Record or Recall	62.5	24-35 m	2307	41
HIB1	Recall	53.8	24-35 m	2307	41
HIB1	Record	41	24-35 m	2307	41
HIB1	Record or Recall	94.8	24-35 m	2307	41
HIB3	Recall	23.4	24-35 m	2307	41
HIB3	Record	39.1	24-35 m	2307	41
HIB3	Record or Recall	62.5	24-35 m	2307	41
IPV1	Recall	56	24-35 m	2307	41
IPV1	Record	38	24-35 m	2307	41
IPV1	Record or Recall	94.1	24-35 m	2307	41
IPV2	Recall	50.9	24-35 m	2307	41
IPV2	Record	35.6	24-35 m	2307	41
IPV2	Record or Recall	86.4	24-35 m	2307	41
MCV1	Recall	52	24-35 m	2307	41
MCV1	Record	37.5	24-35 m	2307	41
MCV1	Record or Recall	89.5	24-35 m	2307	41
MCV2	Recall	37.4	24-35 m	2307	41
MCV2	Record	34.7	24-35 m	2307	41
MCV2	Record or Recall	72.1	24-35 m	2307	41
PCV1	Recall	44.6	24-35 m	2307	41
PCV1	Record	39.3	24-35 m	2307	41
PCV1	Record or Recall	83.9	24-35 m	2307	41
PCV3	Recall	20.3	24-35 m	2307	41
PCV3	Record	37.5	24-35 m	2307	41
PCV3	Record or Recall	57.8	24-35 m	2307	41
POL1	Recall	50.9	24-35 m	2307	41
POL1	Record	41	24-35 m	2307	41
POL1	Record or Recall	91.8	24-35 m	2307	41
POL3	Recall	4	24-35 m	2307	41

POL3	Record	39.1	24-35 m	2307	41
POL3	Record or Recall	43.1	24-35 m	2307	41
RCV1	Recall	52	24-35 m	2307	41
RCV1	Record	37.5	24-35 m	2307	41
RCV1	Record or Recall	89.5	24-35 m	2307	41
ROTAC	Recall	39.6	24-35 m	2307	41
ROTAC	Record	40.1	24-35 m	2307	41
ROTAC	Record or Recall	79.7	24-35 m	2307	41
YFV	Recall	51.5	24-35 m	2307	41
YFV	Record	37.6	24-35 m	2307	41
YFV	Record or Recall	89	24-35 m	2307	41

2017 Sierra Leone Demographic and Health Survey 2019

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Evidence seen
BCG	Recall	22	12-23 m	456	75
BCG	Record	74.4	12-23 m	1382	75
BCG	Record or Recall	96.4	12-23 m	1838	75
BCG	Record or Recall<12m	95.7	12-23 m	1838	75
DTP1	Recall	21.1	12-23 m	456	75
DTP1	Record	73.6	12-23 m	1382	75
DTP1	Record or Recall	94.6	12-23 m	1838	75
DTP1	Record or Recall<12m	94.1	12-23 m	1838	75
DTP3	Recall	10.7	12-23 m	456	75
DTP3	Record	67.4	12-23 m	1382	75
DTP3	Record or Recall	78.1	12-23 m	1838	75
DTP3	Record or Recall<12m	76.2	12-23 m	1838	75
HEPB1	Recall	21.1	12-23 m	456	75
HEPB1	Record	73.6	12-23 m	1382	75
HEPB1	Record or Recall	94.6	12-23 m	1838	75
HEPB1	Record or Recall<12m	94.1	12-23 m	1838	75
HEPB3	Recall	10.7	12-23 m	456	75
HEPB3	Record	67.4	12-23 m	1382	75
HEPB3	Record or Recall	78.1	12-23 m	1838	75
HEPB3	Record or Recall<12m	76.2	12-23 m	1838	75
HIB1	Recall	21.1	12-23 m	456	75
HIB1	Record	73.6	12-23 m	1382	75
HIB1	Record or Recall	94.6	12-23 m	1838	75
HIB1	Record or Recall<12m	94.1	12-23 m	1838	75

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HIB3	Recall	10.7	12-23 m	456	75
HIB3	Record	67.4	12-23 m	1382	75
HIB3	Record or Recall	78.1	12-23 m	1838	75
HIB3	Record or Recall<12m	76.2	12-23 m	1838	75
IPV1	Recall	18.2	12-23 m	456	75
IPV1	Record	61.5	12-23 m	1382	75
IPV1	Record or Recall	79.7	12-23 m	1838	75
IPV1	Record or Recall<12m	77.8	12-23 m	1838	75
MCV1	Recall	19.1	12-23 m	456	75
MCV1	Record	55.6	12-23 m	1382	75
MCV1	Record or Recall	74.7	12-23 m	1838	75
MCV1	Record or Recall<12m	65.6	12-23 m	1838	75
MCV2	Recall	20.8	24-35 m	630	-
MCV2	Record	33.6	24-35 m	1036	-
MCV2	Record or Recall	54.4	24-35 m	1666	-
MCV2	Record or Recall<12m	50.1	24-35 m	1666	-
PCV1	Recall	20.7	12-23 m	456	75
PCV1	Record	73.4	12-23 m	1382	75
PCV1	Record or Recall	94.1	12-23 m	1838	75
PCV1	Record or Recall<12m	93.5	12-23 m	1838	75
PCV3	Recall	11.9	12-23 m	456	75
PCV3	Record	67.5	12-23 m	1382	75
PCV3	Record or Recall	79.4	12-23 m	1838	75
PCV3	Record or Recall<12m	77.5	12-23 m	1838	75
POL1	Recall	15.9	12-23 m	456	75
POL1	Record	73.7	12-23 m	1382	75
POL1	Record or Recall	89.6	12-23 m	1838	75
POL1	Record or Recall<12m	89.1	12-23 m	1838	75
POL3	Recall	2.7	12-23 m	456	75
POL3	Record	68.3	12-23 m	1382	75
POL3	Record or Recall	70.9	12-23 m	1838	75
POL3	Record or Recall<12m	69.5	12-23 m	1838	75
ROTAC	Recall	15.1	12-23 m	456	75
ROTAC	Record	70.1	12-23 m	1382	75
ROTAC	Record or Recall	85.2	12-23 m	1838	75
ROTAC	Record or Recall<12m	84.1	12-23 m	1838	75
YFV	Recall	17.8	12-23 m	456	75
YFV	Record	58.2	12-23 m	1382	75
YFV	Record or Recall	76	12-23 m	1838	75
YFV	Record or Recall<12m	69.8	12-23 m	1838	75

2016 Sierra Leone Demographic and Health Survey 2019

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Evidence seen
BCG	Recall	34	24-35 m	630	-
BCG	Record	60.9	24-35 m	1036	-
BCG	Record or Recall	94.9	24-35 m	1666	-
BCG	Record or Recall<12m	93.4	24-35 m	1666	-
DTP1	Recall	32.4	24-35 m	630	-
DTP1	Record	61.3	24-35 m	1036	-
DTP1	Record or Recall	93.6	24-35 m	1666	-
DTP1	Record or Recall<12m	91.6	24-35 m	1666	-
DTP3	Recall	17.1	24-35 m	630	-
DTP3	Record	56.3	24-35 m	1036	-
DTP3	Record or Recall	73.4	24-35 m	1666	-
DTP3	Record or Recall<12m	70.2	24-35 m	1666	-
HEPB1	Recall	32.4	24-35 m	630	-
HEPB1	Record	61.3	24-35 m	1036	-
HEPB1	Record or Recall	93.6	24-35 m	1666	-
HEPB1	Record or Recall<12m	91.6	24-35 m	1666	-
HEPB3	Recall	17.1	24-35 m	630	-
HEPB3	Record	56.3	24-35 m	1036	-
HEPB3	Record or Recall	73.4	24-35 m	1666	-
HEPB3	Record or Recall<12m	70.2	24-35 m	1666	-
HIB1	Recall	32.4	24-35 m	630	-
HIB1	Record	61.3	24-35 m	1036	-
HIB1	Record or Recall	93.6	24-35 m	1666	-
HIB1	Record or Recall<12m	91.6	24-35 m	1666	-
HIB3	Recall	17.1	24-35 m	630	-
HIB3	Record	56.3	24-35 m	1036	-
HIB3	Record or Recall	73.4	24-35 m	1666	-
HIB3	Record or Recall<12m	70.2	24-35 m	1666	-
IPV1	Recall	29.9	24-35 m	630	-
IPV1	Record	46.8	24-35 m	1036	-
IPV1	Record or Recall	76.6	24-35 m	1666	-
IPV1	Record or Recall<12m	72.6	24-35 m	1666	-
MCV1	Recall	33	24-35 m	630	-
MCV1	Record	49.8	24-35 m	1036	-
MCV1	Record or Recall	82.9	24-35 m	1666	-

Sierra Leone - Survey Details

MCV1	Record or Recall<12m	64.9	24-35 m	1666	-	DTP3	Record or Recall	84.9	12-23 m	2256	81
PCV1	Recall	32.9	24-35 m	630	-	DTP3	Record or Recall<12m	82.5	12-23 m	2256	81
PCV1	Record	61.1	24-35 m	1036	-	HEPB1	Recall	14.7	12-23 m	2256	81
PCV1	Record or Recall	94.1	24-35 m	1666	-	HEPB1	Record	79.6	12-23 m	2256	81
PCV1	Record or Recall<12m	92.1	24-35 m	1666	-	HEPB1	Record or Recall	94.3	12-23 m	2256	81
PCV3	Recall	18.8	24-35 m	630	-	HEPB1	Record or Recall<12m	93.7	12-23 m	2256	81
PCV3	Record	56.1	24-35 m	1036	-	HEPB3	Recall	10.3	12-23 m	2256	81
PCV3	Record or Recall	74.9	24-35 m	1666	-	HEPB3	Record	74.6	12-23 m	2256	81
PCV3	Record or Recall<12m	71.7	24-35 m	1666	-	HEPB3	Record or Recall	84.9	12-23 m	2256	81
POL1	Recall	24.6	24-35 m	630	-	HEPB3	Record or Recall<12m	82.5	12-23 m	2256	81
POL1	Record	61.5	24-35 m	1036	-	HIB1	Recall	14.7	12-23 m	2256	81
POL1	Record or Recall	86.1	24-35 m	1666	-	HIB1	Record	79.6	12-23 m	2256	81
POL1	Record or Recall<12m	84.2	24-35 m	1666	-	HIB1	Record or Recall	94.3	12-23 m	2256	81
POL3	Recall	3.6	24-35 m	630	-	HIB1	Record or Recall<12m	93.7	12-23 m	2256	81
POL3	Record	57.3	24-35 m	1036	-	HIB3	Recall	10.3	12-23 m	2256	81
POL3	Record or Recall	60.9	24-35 m	1666	-	HIB3	Record	74.6	12-23 m	2256	81
POL3	Record or Recall<12m	58.3	24-35 m	1666	-	HIB3	Record or Recall	84.9	12-23 m	2256	81
ROTAC	Recall	25	24-35 m	630	-	HIB3	Record or Recall<12m	82.5	12-23 m	2256	81
ROTAC	Record	57.9	24-35 m	1036	-	MCV1	Recall	14.8	12-23 m	2256	81
ROTAC	Record or Recall	83	24-35 m	1666	-	MCV1	Record	66.1	12-23 m	2256	81
ROTAC	Record or Recall<12m	80.5	24-35 m	1666	-	MCV1	Record or Recall	80.9	12-23 m	2256	81
YFV	Recall	29.3	24-35 m	630	-	MCV1	Record or Recall<12m	74.5	12-23 m	2256	81
YFV	Record	51.6	24-35 m	1036	-	PCV1	Recall	13.8	12-23 m	2256	81
YFV	Record or Recall	80.9	24-35 m	1666	-	PCV1	Record	79.9	12-23 m	2256	81
YFV	Record or Recall<12m	66.4	24-35 m	1666	-	PCV1	Record or Recall	93.7	12-23 m	2256	81

2016 Sierra Leone Multiple Indicator Cluster Survey 2017

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Evidence seen						
BCG	Recall	16	12-23 m	2256	81						
BCG	Record	80.6	12-23 m	2256	81						
BCG	Record or Recall	96.5	12-23 m	2256	81						
BCG	Record or Recall<12m	96.4	12-23 m	2256	81						
DTP1	Recall	14.7	12-23 m	2256	81						
DTP1	Record	79.6	12-23 m	2256	81						
DTP1	Record or Recall	94.3	12-23 m	2256	81						
DTP1	Record or Recall<12m	93.7	12-23 m	2256	81						
DTP3	Recall	10.3	12-23 m	2256	81						
DTP3	Record	74.6	12-23 m	2256	81						
						DTP3	Record or Recall	84.9	12-23 m	2256	81
						DTP3	Record or Recall<12m	82.5	12-23 m	2256	81
						HEPB1	Recall	14.7	12-23 m	2256	81
						HEPB1	Record	79.6	12-23 m	2256	81
						HEPB1	Record or Recall	94.3	12-23 m	2256	81
						HEPB1	Record or Recall<12m	93.7	12-23 m	2256	81
						HEPB3	Recall	10.3	12-23 m	2256	81
						HEPB3	Record	74.6	12-23 m	2256	81
						HEPB3	Record or Recall	84.9	12-23 m	2256	81
						HEPB3	Record or Recall<12m	82.5	12-23 m	2256	81
						HIB1	Recall	14.7	12-23 m	2256	81
						HIB1	Record	79.6	12-23 m	2256	81
						HIB1	Record or Recall	94.3	12-23 m	2256	81
						HIB1	Record or Recall<12m	93.7	12-23 m	2256	81
						HIB3	Recall	10.3	12-23 m	2256	81
						HIB3	Record	74.6	12-23 m	2256	81
						HIB3	Record or Recall	84.9	12-23 m	2256	81
						HIB3	Record or Recall<12m	82.5	12-23 m	2256	81
						MCV1	Recall	14.8	12-23 m	2256	81
						MCV1	Record	66.1	12-23 m	2256	81
						MCV1	Record or Recall	80.9	12-23 m	2256	81
						MCV1	Record or Recall<12m	74.5	12-23 m	2256	81
						PCV1	Recall	13.8	12-23 m	2256	81
						PCV1	Record	79.9	12-23 m	2256	81
						PCV1	Record or Recall	93.7	12-23 m	2256	81
						PCV1	Record or Recall<12m	93.1	12-23 m	2256	81
						PCV3	Recall	10	12-23 m	2256	81
						PCV3	Record	74.7	12-23 m	2256	81
						PCV3	Record or Recall	84.7	12-23 m	2256	81
						PCV3	Record or Recall<12m	82.4	12-23 m	2256	81
						POL1	Recall	14.7	12-23 m	2256	81
						POL1	Record	79.3	12-23 m	2256	81
						POL1	Record or Recall	94	12-23 m	2256	81
						POL1	Record or Recall<12m	93.5	12-23 m	2256	81
						POL3	Recall	5.4	12-23 m	2256	81
						POL3	Record	74.4	12-23 m	2256	81
						POL3	Record or Recall	79.8	12-23 m	2256	81
						POL3	Record or Recall<12m	77.8	12-23 m	2256	81
						ROTAC	Recall	13.1	12-23 m	2256	81
						ROTAC	Record	77.7	12-23 m	2256	81

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ROTAC	Record or Recall	90.9	12-23 m	2256	81
ROTAC	Record or Recall<12m	89.9	12-23 m	2256	81
YFV	Recall	14.5	12-23 m	2256	81
YFV	Record	66.2	12-23 m	2256	81
YFV	Record or Recall	80.7	12-23 m	2256	81
YFV	Record or Recall<12m	74.2	12-23 m	2256	81

2015 Sierra Leone Multiple Indicator Cluster Survey 2017

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Evidence seen
BCG	Recall	26.8	24-35 m	2388	-
BCG	Record	67.6	24-35 m	2388	-
BCG	Record or Recall	94.4	24-35 m	2388	-
BCG	Record or Recall<12m	93.9	24-35 m	2388	-
DTP1	Recall	25.4	24-35 m	2388	-
DTP1	Record	67.4	24-35 m	2388	-
DTP1	Record or Recall	92.8	24-35 m	2388	-
DTP1	Record or Recall<12m	91.7	24-35 m	2388	-
DTP3	Recall	17.7	24-35 m	2388	-
DTP3	Record	63.6	24-35 m	2388	-
DTP3	Record or Recall	81.3	24-35 m	2388	-
DTP3	Record or Recall<12m	77.8	24-35 m	2388	-
HEPB1	Recall	25.4	24-35 m	2388	-
HEPB1	Record	67.4	24-35 m	2388	-
HEPB1	Record or Recall	92.8	24-35 m	2388	-
HEPB1	Record or Recall<12m	91.7	24-35 m	2388	-
HEPB3	Recall	17.7	24-35 m	2388	-
HEPB3	Record	63.6	24-35 m	2388	-
HEPB3	Record or Recall	81.3	24-35 m	2388	-
HEPB3	Record or Recall<12m	77.8	24-35 m	2388	-
HIB1	Recall	25.4	24-35 m	2388	-
HIB1	Record	67.4	24-35 m	2388	-
HIB1	Record or Recall	92.8	24-35 m	2388	-
HIB1	Record or Recall<12m	91.7	24-35 m	2388	-
HIB3	Recall	17.7	24-35 m	2388	-
HIB3	Record	63.6	24-35 m	2388	-
HIB3	Record or Recall	81.3	24-35 m	2388	-
HIB3	Record or Recall<12m	77.8	24-35 m	2388	-
MCV1	Recall	26.4	24-35 m	2388	-

MCV1	Record	61.1	24-35 m	2388	-
MCV1	Record or Recall	87.4	24-35 m	2388	-
MCV1	Record or Recall<12m	73.6	24-35 m	2388	-
PCV1	Recall	24.6	24-35 m	2388	-
PCV1	Record	67.4	24-35 m	2388	-
PCV1	Record or Recall	92	24-35 m	2388	-
PCV1	Record or Recall<12m	90.9	24-35 m	2388	-
PCV3	Recall	17.5	24-35 m	2388	-
PCV3	Record	63.5	24-35 m	2388	-
PCV3	Record or Recall	81	24-35 m	2388	-
PCV3	Record or Recall<12m	77.1	24-35 m	2388	-
POL1	Recall	25.5	24-35 m	2388	-
POL1	Record	67.2	24-35 m	2388	-
POL1	Record or Recall	92.7	24-35 m	2388	-
POL1	Record or Recall<12m	91.7	24-35 m	2388	-
POL3	Recall	7.5	24-35 m	2388	-
POL3	Record	63.4	24-35 m	2388	-
POL3	Record or Recall	70.9	24-35 m	2388	-
POL3	Record or Recall<12m	67.9	24-35 m	2388	-
ROTAC	Recall	22.7	24-35 m	2388	-
ROTAC	Record	65.6	24-35 m	2388	-
ROTAC	Record or Recall	88.2	24-35 m	2388	-
ROTAC	Record or Recall<12m	85.2	24-35 m	2388	-
YFV	Recall	25.7	24-35 m	2388	-
YFV	Record	61.1	24-35 m	2388	-
YFV	Record or Recall	86.7	24-35 m	2388	-
YFV	Record or Recall<12m	72.4	24-35 m	2388	-

2012 Report on Sierra Leone Routine Immunization Coverage Survey - 2013

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Evidence seen
BCG	Record or Recall	99.4	12-23 m	4282	93
BCG	Record or Scar	91.9	12-23 m	-	93
DTP1	Record	90.6	12-23 m	-	93
DTP1	Record or Recall	98	12-23 m	4282	93
DTP3	Record	83.6	12-23 m	-	93
DTP3	Record or Recall	92.4	12-23 m	4282	93
HEPB1	Record	90.6	12-23 m	-	93
HEPB1	Record or Recall	98	12-23 m	4282	93

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HEPB3	Record	83.6	12-23 m	-	93
HEPB3	Record or Recall	92.4	12-23 m	4282	93
HIB1	Record	90.6	12-23 m	-	93
HIB1	Record or Recall	98	12-23 m	4282	93
HIB3	Record	83.6	12-23 m	-	93
HIB3	Record or Recall	92.4	12-23 m	4282	93
MCV1	Record	74.5	12-23 m	-	93
MCV1	Record or Recall	84.4	12-23 m	4282	93
PCV1	Record	88.9	12-23 m	-	93
PCV1	Record or Recall	97.2	12-23 m	4282	93
PCV3	Record	83.2	12-23 m	-	93
PCV3	Record or Recall	92	12-23 m	4282	93
POL1	Record	89.3	12-23 m	-	93
POL1	Record or Recall	97.4	12-23 m	4282	93
POL3	Record	83.4	12-23 m	-	93
POL3	Record or Recall	92	12-23 m	4282	93
YFV	Record	74.3	12-23 m	-	93
YFV	Record or Recall	84.1	12-23 m	4282	93

HEPB3	Record	65	12-23 m	1590	73
HEPB3	Record or Recall	77.9	12-23 m	2169	73
HEPB3	Record or Recall<12m	74.6	12-23 m	2169	73
HIB1	Recall	21	12-23 m	578	73
HIB1	Record	72.5	12-23 m	1590	73
HIB1	Record or Recall	93.5	12-23 m	2169	73
HIB1	Record or Recall<12m	93	12-23 m	2169	73
HIB3	Recall	12.9	12-23 m	578	73
HIB3	Record	65	12-23 m	1590	73
HIB3	Record or Recall	77.9	12-23 m	2169	73
HIB3	Record or Recall<12m	74.6	12-23 m	2169	73
MCV1	Recall	20.4	12-23 m	578	73
MCV1	Record	58.2	12-23 m	1590	73
MCV1	Record or Recall	78.6	12-23 m	2169	73
MCV1	Record or Recall<12m	67.5	12-23 m	2169	73
POL1	Recall	21.4	12-23 m	578	73
POL1	Record	72.6	12-23 m	1590	73
POL1	Record or Recall	94	12-23 m	2169	73
POL1	Record or Recall<12m	93.4	12-23 m	2169	73
POL3	Recall	12.8	12-23 m	578	73
POL3	Record	65	12-23 m	1590	73
POL3	Record or Recall	77.8	12-23 m	2169	73
POL3	Record or Recall<12m	74.5	12-23 m	2169	73

2012 Sierra Leone Demographic and Health Survey 2013

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Evidence seen
BCG	Recall	22.7	12-23 m	578	73
BCG	Record	72.9	12-23 m	1590	73
BCG	Record or Recall	95.6	12-23 m	2169	73
BCG	Record or Recall<12m	94.7	12-23 m	2169	73
DTP1	Recall	21	12-23 m	578	73
DTP1	Record	72.5	12-23 m	1590	73
DTP1	Record or Recall	93.5	12-23 m	2169	73
DTP1	Record or Recall<12m	93	12-23 m	2169	73
DTP3	Recall	12.9	12-23 m	578	73
DTP3	Record	65	12-23 m	1590	73
DTP3	Record or Recall	77.9	12-23 m	2169	73
DTP3	Record or Recall<12m	74.6	12-23 m	2169	73
HEPB1	Recall	21	12-23 m	578	73
HEPB1	Record	72.5	12-23 m	1590	73
HEPB1	Record or Recall	93.5	12-23 m	2169	73
HEPB1	Record or Recall<12m	93	12-23 m	2169	73
HEPB3	Recall	12.9	12-23 m	578	73

2009 Sierra Leone Immunization Cluster Coverage Survey 2010

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Evidence seen
BCG	Record	78.2	12-23 m	-	78
BCG	Record or Recall	96.5	12-23 m	4011	78
DTP1	Record	74.2	12-23 m	-	78
DTP1	Record or Recall	96.5	12-23 m	4011	78
DTP3	Record	64.8	12-23 m	-	78
DTP3	Record or Recall	86	12-23 m	4011	78
HEPB1	Record	74.2	12-23 m	-	78
HEPB1	Record or Recall	96.5	12-23 m	4011	78
HEPB3	Record	64.8	12-23 m	-	78
HEPB3	Record or Recall	86	12-23 m	4011	78
HIB1	Record	74.2	12-23 m	-	78
HIB1	Record or Recall	96.5	12-23 m	4011	78

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HIB3	Record	64.8	12-23 m	-	78
HIB3	Record or Recall	86	12-23 m	4011	78
MCV1	Record	57.2	12-23 m	-	78
MCV1	Record or Recall	78	12-23 m	4011	78
POL1	Record	73.4	12-23 m	-	78
POL1	Record or Recall	96	12-23 m	4011	78
POL3	Record	64.1	12-23 m	-	78
POL3	Record or Recall	85.1	12-23 m	4011	78
YFV	Record	57.1	12-23 m	-	78
YFV	Record or Recall	77.8	12-23 m	4011	78

2009 Sierra Leone Multiple Indicator Cluster Survey 2010

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Evidence seen
BCG	Recall	28.6	12-23 m	1502	68
BCG	Record	66.9	12-23 m	1502	68
BCG	Record or Recall	95.5	12-23 m	1502	68
BCG	Record or Recall<12m	94.8	12-23 m	1502	68
DTP1	Recall	28	12-23 m	1502	68
DTP1	Record	63.9	12-23 m	1502	68
DTP1	Record or Recall	91.9	12-23 m	1502	68
DTP1	Record or Recall<12m	88.8	12-23 m	1502	68
DTP3	Recall	13.4	12-23 m	1502	68
DTP3	Record	58.4	12-23 m	1502	68
DTP3	Record or Recall	71.8	12-23 m	1502	68
DTP3	Record or Recall<12m	66.6	12-23 m	1502	68
HEPB1	Recall	25.5	12-23 m	1502	68
HEPB1	Record	60.5	12-23 m	1502	68
HEPB1	Record or Recall	86.1	12-23 m	1502	68
HEPB1	Record or Recall<12m	83.2	12-23 m	1502	68
HEPB3	Recall	13.2	12-23 m	1502	68
HEPB3	Record	55.9	12-23 m	1502	68
HEPB3	Record or Recall	69.1	12-23 m	1502	68
HEPB3	Record or Recall<12m	63.7	12-23 m	1502	68
HIB1	Recall	25.5	12-23 m	1502	68
HIB1	Record	60.5	12-23 m	1502	68
HIB1	Record or Recall	86.1	12-23 m	1502	68
HIB1	Record or Recall<12m	83.2	12-23 m	1502	68
HIB3	Recall	13.2	12-23 m	1502	68

HIB3	Record	55.9	12-23 m	1502	68
HIB3	Record or Recall	69.1	12-23 m	1502	68
HIB3	Record or Recall<12m	63.7	12-23 m	1502	68
MCV1	Recall	29.3	12-23 m	1502	68
MCV1	Record	52.5	12-23 m	1502	68
MCV1	Record or Recall	81.8	12-23 m	1502	68
MCV1	Record or Recall<12m	67.9	12-23 m	1502	68
POL1	Recall	27.2	12-23 m	1502	68
POL1	Record	60.6	12-23 m	1502	68
POL1	Record or Recall	87.8	12-23 m	1502	68
POL1	Record or Recall<12m	85.8	12-23 m	1502	68
POL3	Recall	8.9	12-23 m	1502	68
POL3	Record	54	12-23 m	1502	68
POL3	Record or Recall	62.9	12-23 m	1502	68
POL3	Record or Recall<12m	58.3	12-23 m	1502	68
YFV	Recall	29.3	12-23 m	1502	68
YFV	Record	52.3	12-23 m	1502	68
YFV	Record or Recall	81.7	12-23 m	1502	68
YFV	Record or Recall<12m	67.5	12-23 m	1502	68

2007 Sierra Leone Demographic and Health Survey 2008

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Evidence seen
BCG	Recall	23.2	12-23 m	1060	60
BCG	Record	58.9	12-23 m	1060	60
BCG	Record or Recall	82	12-23 m	1060	60
BCG	Record or Recall<12m	80.4	12-23 m	1060	60
DTP1	Recall	21.4	12-23 m	1060	60
DTP1	Record	55.4	12-23 m	1060	60
DTP1	Record or Recall	76.8	12-23 m	1060	60
DTP1	Record or Recall<12m	75.4	12-23 m	1060	60
DTP3	Recall	14.8	12-23 m	1060	60
DTP3	Record	45.5	12-23 m	1060	60
DTP3	Record or Recall	60.3	12-23 m	1060	60
DTP3	Record or Recall<12m	54.6	12-23 m	1060	60
MCV1	Recall	19.6	12-23 m	1060	60
MCV1	Record	40.2	12-23 m	1060	60
MCV1	Record or Recall	59.7	12-23 m	1060	60
MCV1	Record or Recall<12m	45.8	12-23 m	1060	60

POL1	Recall	22.2	12-23 m	1060	60	POL3	Recall	25.8	12-23 m	1074	53
POL1	Record	53.4	12-23 m	1060	60	POL3	Record	38.3	12-23 m	1074	53
POL1	Record or Recall	75.6	12-23 m	1060	60	POL3	Record or Recall	64	12-23 m	1074	53
POL1	Record or Recall<12m	74.1	12-23 m	1060	60	POL3	Record or Recall<12m	57	12-23 m	1074	53
POL3	Recall	6.2	12-23 m	1060	60	YFV	Recall	43.9	12-23 m	1074	53
POL3	Record	43.5	12-23 m	1060	60	YFV	Record	30.7	12-23 m	1074	53
POL3	Record or Recall	49.6	12-23 m	1060	60	YFV	Record or Recall	74.5	12-23 m	1074	53
POL3	Record or Recall<12m	44.8	12-23 m	1060	60	YFV	Record or Recall<12m	59.9	12-23 m	1074	53

2004 Sierra Leone Multiple Indicator Cluster Survey 2005

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Evidence seen
BCG	Recall	36.3	12-23 m	1074	53
BCG	Record	49.6	12-23 m	1074	53
BCG	Record or Recall	85.9	12-23 m	1074	53
BCG	Record or Recall<12m	84	12-23 m	1074	53
DTP1	Recall	34.9	12-23 m	1074	53
DTP1	Record	47.1	12-23 m	1074	53
DTP1	Record or Recall	82	12-23 m	1074	53
DTP1	Record or Recall<12m	78.3	12-23 m	1074	53
DTP3	Recall	25.4	12-23 m	1074	53
DTP3	Record	37.2	12-23 m	1074	53
DTP3	Record or Recall	62.6	12-23 m	1074	53
DTP3	Record or Recall<12m	55.5	12-23 m	1074	53
MCV1	Recall	42.7	12-23 m	1074	53
MCV1	Record	33.2	12-23 m	1074	53
MCV1	Record or Recall	75.9	12-23 m	1074	53
MCV1	Record or Recall<12m	62.4	12-23 m	1074	53
POL1	Recall	38.5	12-23 m	1074	53
POL1	Record	48.5	12-23 m	1074	53
POL1	Record or Recall	87	12-23 m	1074	53
POL1	Record or Recall<12m	84.1	12-23 m	1074	53

2000 Sierra Leone, EPI National Coverage Evaluation Survey 2001

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Evidence seen
BCG	Record or Recall	74.1	12-23 m	3385	74
DTP1	Record or Recall	64.4	12-23 m	3385	74
DTP3	Record or Recall	43.8	12-23 m	3385	74
MCV1	Record or Recall	36.7	12-23 m	3385	74
POL1	Record or Recall	66.4	12-23 m	3385	74
POL3	Record or Recall	45.5	12-23 m	3385	74

1999 Sierra Leone, Multi-Indicator Cluster Survey-MICS2, Final Report, 2000

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Evidence seen
BCG	Record or Recall	72.8	12-23 m	547	35
DTP1	Record or Recall	68.3	12-23 m	547	35
DTP3	Record or Recall	45.5	12-23 m	547	35
MCV1	Record or Recall	61.7	12-23 m	547	35
POL1	Record or Recall	81.9	12-23 m	547	35
POL3	Record or Recall	61.2	12-23 m	547	35

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