

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.

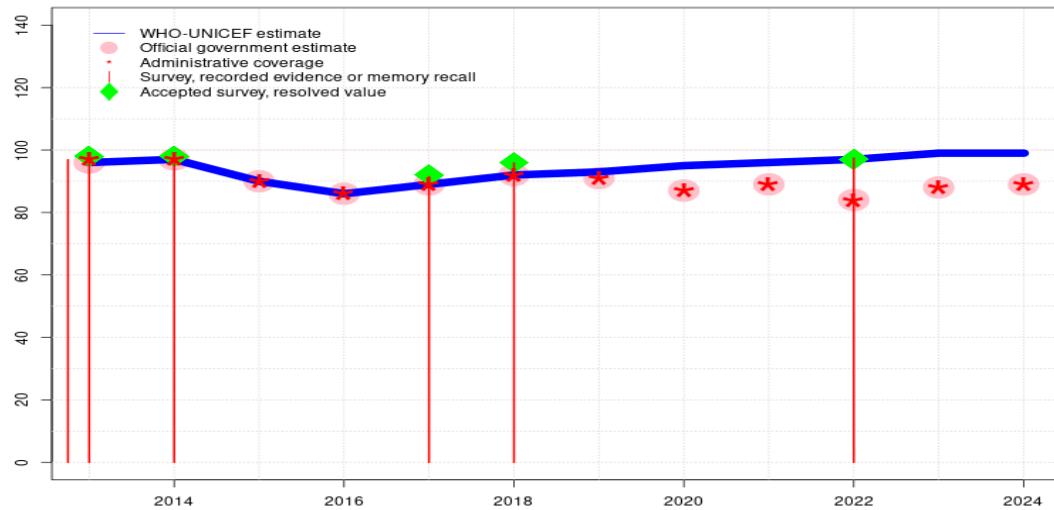
YFV: percentage of surviving infants who received one dose of yellow fever vaccine in countries where YFV is part of the national immunization schedule for children or is recommended in at risk areas; coverage estimates are annualized for the entire cohort of surviving infants.

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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Malawi - BCG

MWI - BCG



	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Estimate	96	97	90	86	89	92	93	95	96	97	99	99
Estimate GoC	•	•	•	•	•	•	•	•	•	•	•	•
Official	96	97	90	86	89	92	91	87	89	84	88	89
Administrative	97	97	90	86	89	92	91	87	89	84	88	89
Survey	*	98	-	-	92	96	-	-	-	97	-	-

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

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

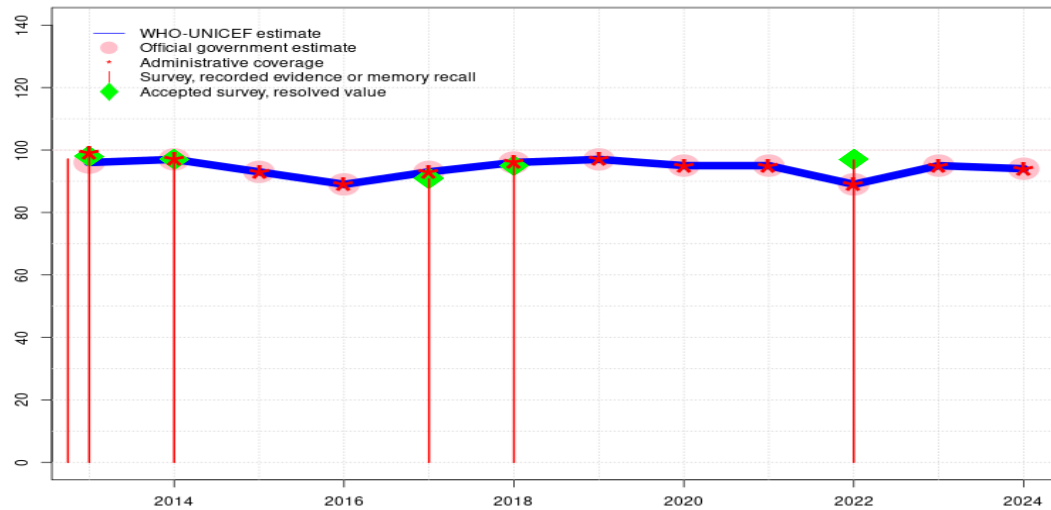
In all cases these estimates should be used with caution and should be assessed in light of the objective for which they are being used.

Description:

- 2024: Reported data calibrated to 2022 levels. Estimate challenged by: R-
- 2023: Reported data calibrated to 2022 levels. Estimate of 99 percent changed from previous revision value of 88 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). Estimate of 97 percent changed from previous revision value of 84 percent. Estimate challenged by: R-
- 2021: Estimate informed by interpolation between 2018 and 2022 levels. Estimate of 96 percent changed from previous revision value of 89 percent. Estimate challenged by: R-
- 2020: Estimate informed by interpolation between 2018 and 2022 levels. Programme reports service delivery disruptions during April to June 2020 due to COVID-19. Estimate of 95 percent changed from previous revision value of 87 percent. Estimate challenged by: D-R-
- 2019: Estimate informed by interpolation between 2018 and 2022 levels. Estimate of 93 percent changed from previous revision value of 91 percent. Estimate challenged by: D-R-
- 2018: Estimate informed by reported data supported by survey.Survey evidence of 96 percent based on 1 survey(s). Estimate challenged by: D-
- 2017: Estimate informed by reported data supported by survey.Survey evidence of 92 percent based on 1 survey(s). Programme reports vaccine supply disruptions at district level. Estimate challenged by: D-
- 2016: Estimate informed by reported data. Estimate challenged by: D-S-
- 2015: Estimate informed by reported data. Estimate challenged by: D-
- 2014: Estimate informed by reported data supported by survey.Survey evidence of 98 percent based on 1 survey(s). Estimate challenged by: D-
- 2013: Estimate informed by reported data supported by survey.Survey evidence of 98 percent based on 2 survey(s). Estimate challenged by: D-

Malawi - DTP1

MWI - DTP1



Description:

2024: Estimate informed by reported data. Estimate challenged by: D-
 2023: Estimate informed by reported data. Estimate challenged by: D-
 2022: Estimate informed by reported data supported by survey.Survey evidence of 97 percent based on 1 survey(s). Estimate challenged by: D-
 2021: Estimate informed by reported data. Estimate challenged by: D-
 2020: Estimate informed by reported data. Programme reports service delivery disruptions during April to June 2020 due to COVID-19. Estimate challenged by: D-
 2019: Estimate informed by reported data. Estimate challenged by: D-
 2018: Estimate informed by reported data supported by survey.Survey evidence of 95 percent based on 1 survey(s). Estimate challenged by: D-
 2017: Estimate informed by reported data supported by survey.Survey evidence of 91 percent based on 1 survey(s). Programme reports vaccine supply disruptions at district level. Estimate challenged by: D-
 2016: Estimate informed by reported data. Estimate challenged by: D-
 2015: Estimate informed by reported data. Estimate challenged by: D-
 2014: Estimate informed by reported data supported by survey.Survey evidence of 97 percent based on 1 survey(s). Estimate challenged by: D-
 2013: Estimate informed by reported data supported by survey.Survey evidence of 98 percent based on 2 survey(s). GoC=R+ S+ D+

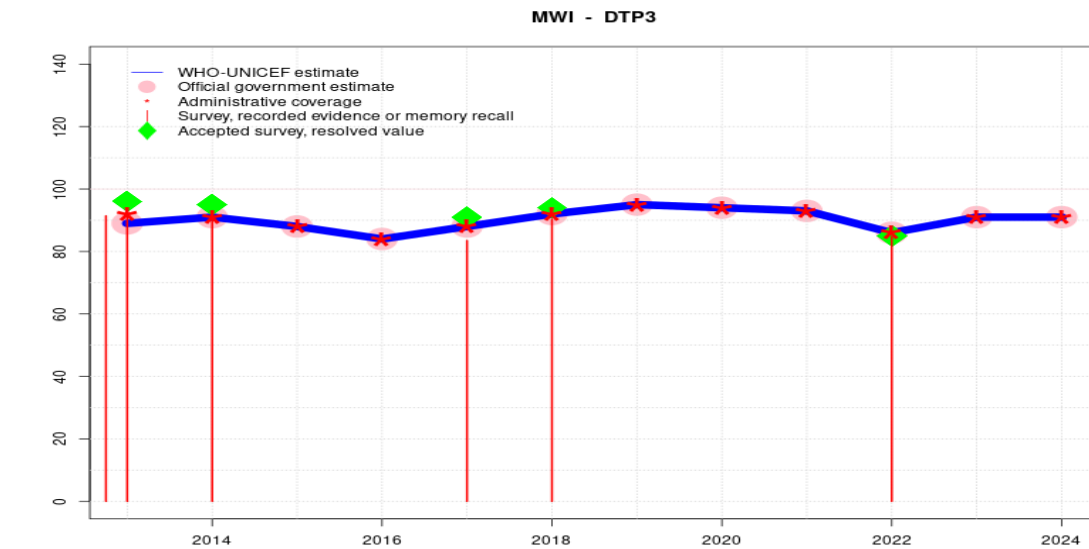
	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Estimate	96	97	93	89	93	96	97	95	95	89	95	94
Estimate GoC	●●●	●	●	●	●	●	●	●	●	●	●	●
Official	96	97	93	89	93	96	97	95	95	89	95	94
Administrative	99	97	93	89	93	96	97	95	95	89	95	94
Survey	*	97	-	-	91	95	-	-	-	97	-	-

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.

Malawi - DTP3



	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Estimate	89	91	88	84	88	92	95	94	93	86	91	91
Estimate GoC	●●●	●	●	●	●	●	●	●	●	●	●	●
Official	89	91	88	84	88	92	95	94	93	86	91	91
Administrative	92	91	88	84	88	92	95	94	93	86	91	91
Survey	*	93	-	-	84	90	-	-	-	85	-	-

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

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

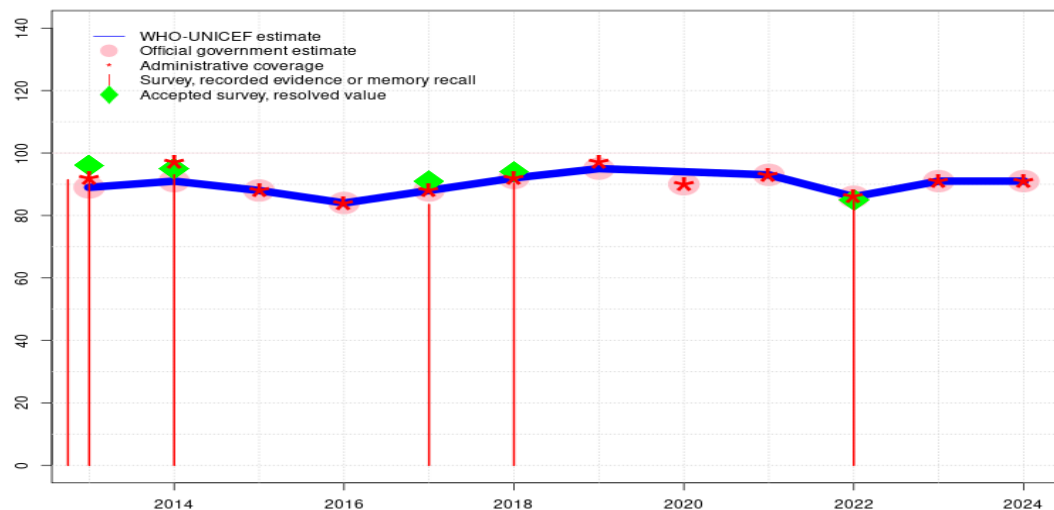
In all cases these estimates should be used with caution and should be assessed in light of the objective for which they are being used.

Description:

- 2024: Estimate informed by reported data. Estimate challenged by: D-
- 2023: Estimate informed by reported data. Estimate challenged by: D-
- 2022: Estimate informed by reported data supported by survey.Survey evidence of 85 percent based on 1 survey(s). Estimate challenged by: D-
- 2021: Estimate informed by reported data. Estimate challenged by: D-
- 2020: Estimate informed by reported data. Programme reports service delivery disruptions during April to June 2020 due to COVID-19. Estimate challenged by: D-
- 2019: Estimate informed by reported data. Estimate challenged by: D-
- 2018: Estimate informed by reported data supported by survey.Survey evidence of 94 percent based on 1 survey(s). Malawi Multiple Indicator Cluster Survey 2019-2020 record or recall results of 90 percent modified for recall bias to 94 percent based on 1st dose record or recall coverage of 95 percent, 1st dose record only coverage of 79 percent and 3rd dose record only coverage of 78 percent. Estimate challenged by: D-
- 2017: Estimate informed by reported data supported by survey.Survey evidence of 91 percent based on 1 survey(s). Malawi Multiple Indicator Cluster Survey 2019-2020 record or recall results of 84 percent modified for recall bias to 91 percent based on 1st dose record or recall coverage of 91 percent, 1st dose record only coverage of 59 percent and 3rd dose record only coverage of 59 percent. Programme reports vaccine supply disruptions at district level. Estimate challenged by: D-
- 2016: Estimate informed by reported data. Estimate challenged by: D-S-
- 2015: Estimate informed by reported data. Estimate challenged by: D-
- 2014: Estimate informed by reported data supported by survey.Survey evidence of 95 percent based on 1 survey(s). Malawi Demographic and Health Survey 2015-2016 record or recall results of 93 percent modified for recall bias to 95 percent based on 1st dose record or recall coverage of 97 percent, 1st dose record only coverage of 79 percent and 3rd dose record only coverage of 77 percent. Estimate challenged by: D-
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Malawi - HEPB3

MWI - HEPB3



	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Estimate	89	91	88	84	88	92	95	94	93	86	91	91
Estimate GoC	●●●	●	●	●	●	●	●	●	●	●	●	●
Official	89	91	88	84	88	92	95	90	93	86	91	91
Administrative	92	97	88	84	88	92	97	90	93	86	91	91
Survey	*	93	-	-	84	90	-	-	-	85	-	-

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- Estimate is supported by reported data [R+], coverage recalculated with an independent denominator from the World Population Prospects: 2024 revision from the UN Population Division (D+), and at least one supporting survey within 2 years [S+]. While well supported, the estimate still carries a risk of being wrong.
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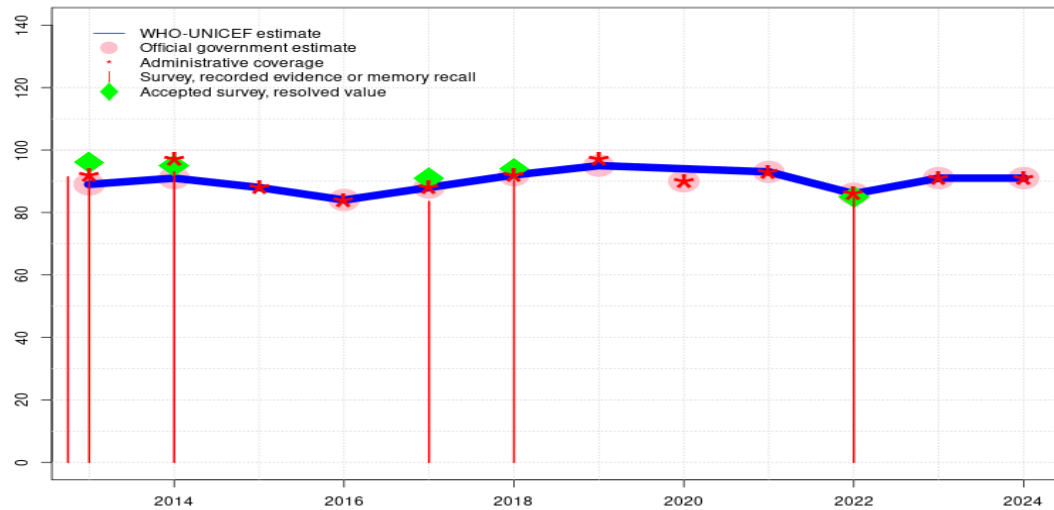
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- 2023: Estimate informed by reported data. Estimate challenged by: D-
- 2022: Estimate informed by reported data supported by survey.Survey evidence of 85 percent based on 1 survey(s). Estimate challenged by: D-
- 2021: Estimate informed by reported data. Estimate challenged by: D-
- 2020: Estimate informed by DTP3 level, as only pentavalent DTP-Hib-HepB vaccine is used. Programme reports service delivery disruptions during April to June 2020 due to COVID-19. Estimate challenged by: D-R-
- 2019: Estimate informed by reported data. Estimate challenged by: D-
- 2018: Estimate informed by reported data supported by survey.Survey evidence of 94 percent based on 1 survey(s). Malawi Multiple Indicator Cluster Survey 2019-2020 record or recall results of 90 percent modified for recall bias to 94 percent based on 1st dose record or recall coverage of 95 percent, 1st dose record only coverage of 79 percent and 3rd dose record only coverage of 78 percent. Estimate challenged by: D-
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Malawi - HIB3

MWI - HIB3



	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Estimate	89	91	88	84	88	92	95	94	93	86	91	91
Estimate GoC	●●●	●	●	●	●	●	●	●	●	●	●	●
Official	89	91	-	84	88	92	95	90	93	86	91	91
Administrative	92	97	88	84	88	92	97	90	93	86	91	91
Survey	*	93	-	-	84	90	-	-	-	85	-	-

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.

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- There are no directly supporting data; or data from at least one source; [R-], [D-], [S-]; challenge the estimate.

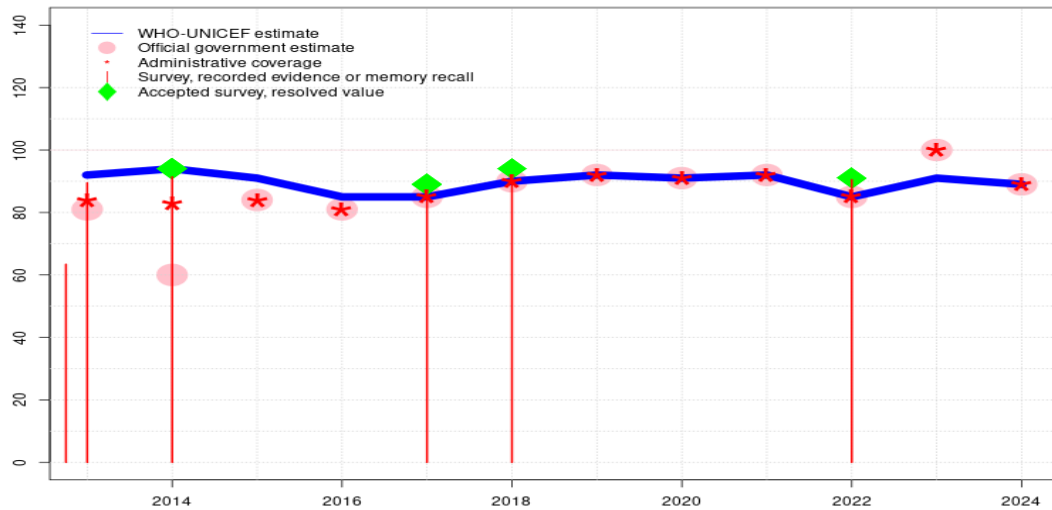
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- 2023: Estimate informed by reported data. Estimate challenged by: D-
- 2022: Estimate informed by reported data supported by survey.Survey evidence of 85 percent based on 1 survey(s). Estimate challenged by: D-
- 2021: Estimate informed by reported data. Estimate challenged by: D-
- 2020: Estimate informed by DTP3 level, as only pentavalent DTP-Hib-HepB vaccine is used. Programme reports service delivery disruptions during April to June 2020 due to COVID-19. Estimate challenged by: D-R-
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- 2016: Estimate informed by reported data. Estimate challenged by: D-S-
- 2015: Estimate informed by reported administrative data. Estimate challenged by: D-
- 2014: Estimate informed by reported data supported by survey.Survey evidence of 95 percent based on 1 survey(s). Malawi Demographic and Health Survey 2015-2016 record or recall results of 93 percent modified for recall bias to 95 percent based on 1st dose record or recall coverage of 97 percent, 1st dose record only coverage of 79 percent and 3rd dose record only coverage of 77 percent. Estimate challenged by: D-
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Malawi - ROTAC

MWI - ROTAC



	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Estimate	92	94	91	85	85	90	92	91	92	85	91	89
Estimate GoC	●	●	●	●	●	●	●	●	●	●	●	●
Official	81	60	84	81	85	90	92	91	92	85	100	89
Administrative	84	83	84	81	85	90	92	91	92	85	100	89
Survey	*	91	-	-	85	91	-	-	-	91	-	-

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

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- Estimate is supported by at least one data source; [R+], [S+], or [D+]; and no data source, [R-], [D-], or [S-], challenges the estimate.
- There are no directly supporting data; or data from at least one source; [R-], [D-], [S-]; challenge the estimate.

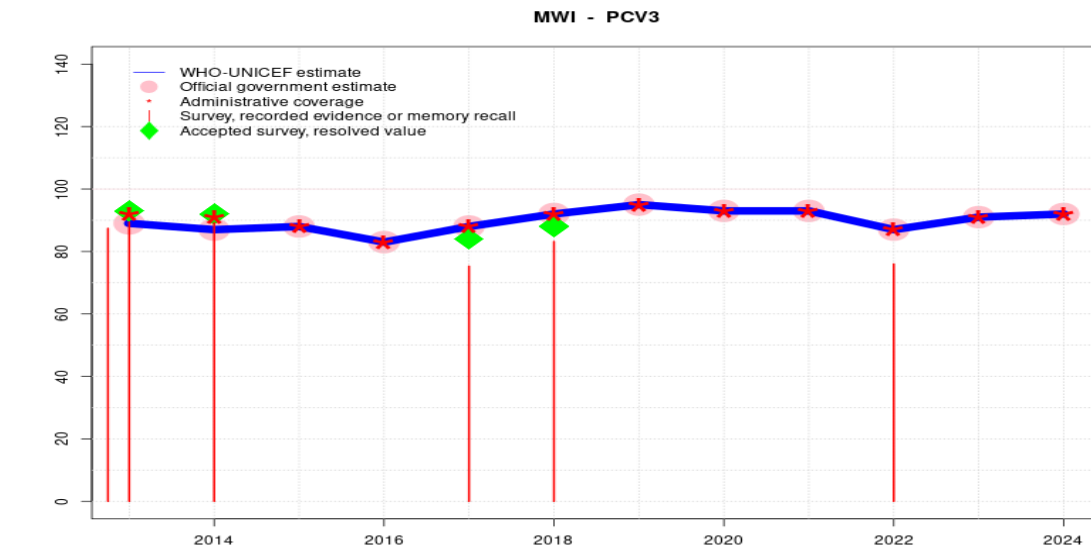
In all cases these estimates should be used with caution and should be assessed in light of the objective for which they are being used.

Description:

- 2024: Estimate informed by reported data. Estimate challenged by: D-
- 2023: Estimate is exceptionally based on estimated coverage for DTP3. Reported coverage for rotavirus last dose is higher than that for the first dose. Reported data excluded due to an increase from 85 percent to 100 percent with decrease to 89 percent. Estimate challenged by: D-R-
- 2022: Estimate informed by reported data supported by survey. Survey evidence of 91 percent based on 1 survey(s). Estimate challenged by: D-
- 2021: Estimate informed by reported data. Estimate challenged by: D-
- 2020: Estimate informed by reported data. Programme reports service delivery disruptions during April to June 2020 due to COVID-19. Estimate challenged by: D-
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- 2018: Estimate informed by reported data supported by survey. Survey evidence of 94 percent based on 1 survey(s). Malawi Multiple Indicator Cluster Survey 2019-2020 record or recall results of 91 percent modified for recall bias to 94 percent based on 1st dose record or recall coverage of 94 percent, 1st dose record only coverage of 78 percent and 3rd dose record only coverage of 78 percent. Estimate challenged by: D-
- 2017: Estimate informed by reported data supported by survey. Survey evidence of 89 percent based on 1 survey(s). Malawi Multiple Indicator Cluster Survey 2019-2020 record or recall results of 85 percent modified for recall bias to 89 percent based on 1st dose record or recall coverage of 89 percent, 1st dose record only coverage of 59 percent and 3rd dose record only coverage of 59 percent. Programme reports vaccine supply disruptions at district level. Estimate challenged by: D-
- 2016: Reported data calibrated to 2014 and 2017 levels. Estimate of 85 percent changed from previous revision value of 81 percent. Estimate challenged by: R-
- 2015: Reported data calibrated to 2014 and 2017 levels. Estimate of 91 percent changed from previous revision value of 84 percent. Estimate challenged by: R-
- 2014: Survey evidence does not support reported data. Estimate based on survey result. Survey evidence of 94 percent based on 1 survey(s). Malawi Demographic and Health Survey 2015-2016 record or recall results of 91 percent modified for recall bias to 94 percent based on 1st dose record or recall coverage of 95 percent, 1st dose record only coverage of 76 percent and 3rd dose record only coverage of 75 percent. Adjustment applied to official coverage from administrative data is unexplained. Estimate of 94 percent changed from previous revision value of 83 percent. Estimate challenged by: R-
- 2013: Reported data calibrated to 2014 levels. Malawi MDG Endline Survey 2014 results ignored by working group. Survey results likely reflect timing of field work during introduction period. Malawi Demographic and Health Survey 2015-2016 results ignored by working group. Survey results likely reflect timing of field work during introduction period. Malawi MDG Endline Survey 2014 record or recall results of 63 percent modified for recall bias to 65 percent based on 1st dose record or recall coverage of 68 percent, 1st dose record only coverage of 49 percent and 3rd dose record only coverage of 47 percent. Malawi Demographic and Health Survey 2015-2016 record or recall results of 90 percent modified

for recall bias to 91 percent based on 1st dose record or recall coverage of 94 percent, 1st dose record only coverage of 64 percent and 3rd dose record only coverage of 62 percent. Estimate of 92 percent changed from previous revision value of 81 percent. Estimate challenged by: R-

Malawi - PCV3



	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Estimate	89	87	88	83	88	92	95	93	93	87	91	92
Estimate GoC	●●●	●	●	●	●	●	●	●	●	●	●	●
Official	89	87	88	83	88	92	95	93	93	87	91	92
Administrative	92	91	88	83	88	92	95	93	93	87	91	92
Survey	*	89	-	-	75	83	-	-	-	76	-	-

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

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

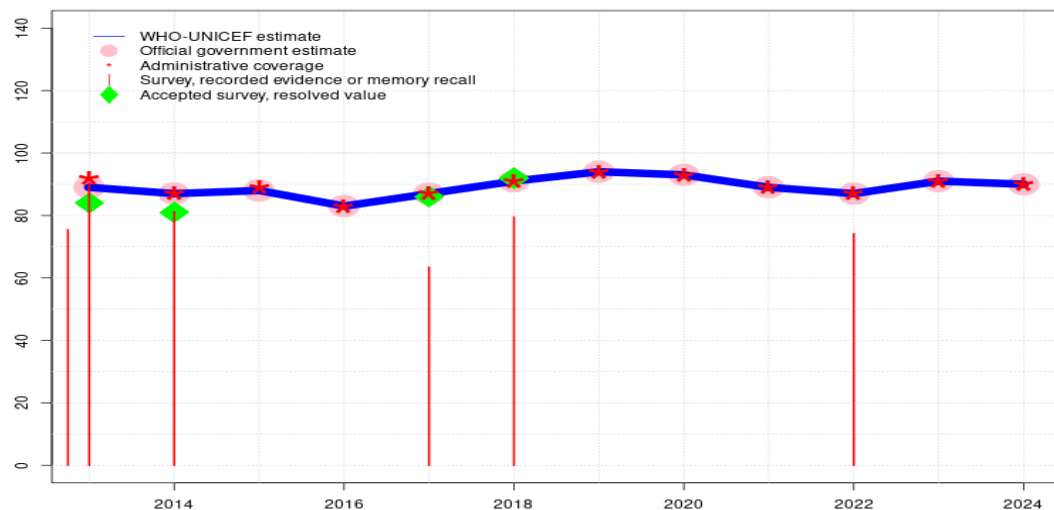
In all cases these estimates should be used with caution and should be assessed in light of the objective for which they are being used.

Description:

- 2024: Estimate informed by reported data. Estimate challenged by: D-
- 2023: Estimate informed by reported data. Estimate challenged by: D-
- 2022: Estimate informed by reported data. Malawi Demographic and Health Survey (Key Indicators Report) 2023-2024 results ignored by working group. In contrast to other antigens, survey results are inconsistent with reported data. Estimate challenged by: D-
- 2021: Estimate informed by reported data. Estimate challenged by: D-
- 2020: Estimate informed by reported data. Programme reports service delivery disruptions during April to June 2020 due to COVID-19. Estimate challenged by: D-
- 2019: Estimate informed by reported data. Estimate challenged by: D-S-
- 2018: Estimate informed by reported data supported by survey.Survey evidence of 88 percent based on 1 survey(s). Malawi Multiple Indicator Cluster Survey 2019-2020 record or recall results of 83 percent modified for recall bias to 88 percent based on 1st dose record or recall coverage of 89 percent, 1st dose record only coverage of 74 percent and 3rd dose record only coverage of 73 percent. Estimate challenged by: D-
- 2017: Estimate informed by reported data supported by survey.Survey evidence of 84 percent based on 1 survey(s). Malawi Multiple Indicator Cluster Survey 2019-2020 record or recall results of 75 percent modified for recall bias to 84 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 54 percent. Programme reports vaccine supply disruptions at district level. Estimate challenged by: D-
- 2016: Estimate informed by reported data. Estimate challenged by: D-
- 2015: Estimate informed by reported data. Estimate challenged by: D-
- 2014: Estimate informed by reported data supported by survey.Survey evidence of 92 percent based on 1 survey(s). Malawi Demographic and Health Survey 2015-2016 record or recall results of 89 percent modified for recall bias to 92 percent based on 1st dose record or recall coverage of 96 percent, 1st dose record only coverage of 78 percent and 3rd dose record only coverage of 75 percent. Estimate challenged by: D-
- 2013: Estimate informed by reported data supported by survey.Survey evidence of 93 percent based on 2 survey(s). Malawi MDG Endline Survey 2014 record or recall results of 89 percent modified for recall bias to 92 percent based on 1st dose record or recall coverage of 97 percent, 1st dose record only coverage of 82 percent and 3rd dose record only coverage of 78 percent.Malawi Demographic and Health Survey 2015-2016 record or recall results of 87 percent modified for recall bias to 93 percent based on 1st dose record or recall coverage of 96 percent, 1st dose record only coverage of 65 percent and 3rd dose record only coverage of 63 percent. GoC=R+ S+ D+

Malawi - POL3

MWI - POL3



	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Estimate	89	87	88	83	87	91	94	93	89	87	91	90
Estimate GoC	●●●	●	●	●	●	●	●	●	●	●	●	●
Official	89	87	88	83	87	91	94	93	89	87	91	90
Administrative	92	87	89	83	87	91	94	93	89	87	91	90
Survey	*	81	-	-	64	80	-	-	-	74	-	-

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

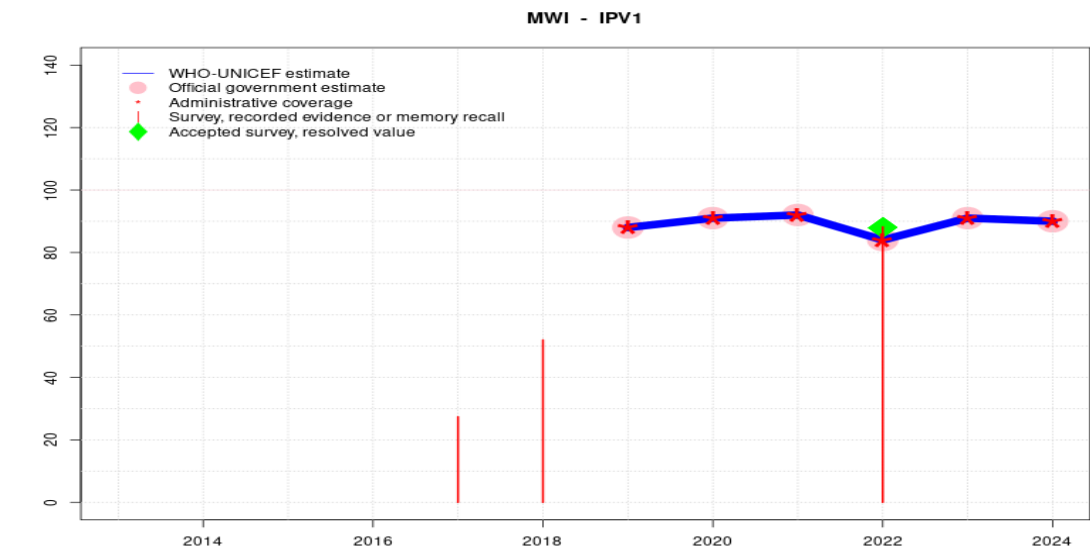
- Estimate is supported by reported data [R+], coverage recalculated with an independent denominator from the World Population Prospects: 2024 revision from the UN Population Division (D+), and at least one supporting survey within 2 years [S+]. While well supported, the estimate still carries a risk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

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

Description:

- 2024: Estimate informed by reported data. Estimate challenged by: D-
- 2023: Estimate informed by reported data. Estimate challenged by: D-
- 2022: Estimate informed by reported data. Malawi Demographic and Health Survey (Key Indicators Report) 2023-2024 results ignored by working group. In contrast to other antigens, survey results are inconsistent with reported data. Estimate challenged by: D-
- 2021: Estimate informed by reported data. Estimate challenged by: D-
- 2020: Estimate informed by reported data. Programme reports service delivery disruptions during April to June 2020 due to COVID-19. Estimate challenged by: D-
- 2019: Estimate informed by reported data. Estimate challenged by: D-
- 2018: Estimate informed by reported data supported by survey. Survey evidence of 92 percent based on 1 survey(s). Malawi Multiple Indicator Cluster Survey 2019-2020 record or recall results of 80 percent modified for recall bias to 92 percent based on 1st dose record or recall coverage of 93 percent, 1st dose record only coverage of 79 percent and 3rd dose record only coverage of 78 percent. Estimate challenged by: D-
- 2017: Estimate informed by reported data supported by survey. Survey evidence of 86 percent based on 1 survey(s). Malawi Multiple Indicator Cluster Survey 2019-2020 record or recall results of 64 percent modified for recall bias to 86 percent based on 1st dose record or recall coverage of 87 percent, 1st dose record only coverage of 60 percent and 3rd dose record only coverage of 59 percent. Programme reports vaccine supply disruptions at district level. Estimate challenged by: D-
- 2016: Estimate informed by reported data. Estimate challenged by: D-
- 2015: Estimate informed by reported data. Estimate challenged by: D-
- 2014: Estimate informed by reported data supported by survey. Survey evidence of 81 percent based on 1 survey(s). Estimate challenged by: D-
- 2013: Estimate informed by reported data supported by survey. Survey evidence of 84 percent based on 2 survey(s). Malawi MDG Endline Survey 2014 record or recall results of 91 percent modified for recall bias to 92 percent based on 1st dose record or recall coverage of 98 percent, 1st dose record only coverage of 83 percent and 3rd dose record only coverage of 78 percent. GoC=R+ S+ D+

Malawi - IPV1



Description:

2024: Estimate informed by reported data. Estimate challenged by: D-

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

2022: Estimate informed by reported data supported by survey. Survey evidence of 88 percent based on 1 survey(s). Estimate challenged by: D-

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

2020: Estimate informed by reported data. Programme reports service delivery disruptions during April to June 2020 due to COVID-19. Estimate challenged by: D-

2019: Estimate informed by reported data. Inactivated polio vaccine introduced in December 2018. Reporting started in 2019. Estimate challenged by: D-

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Estimate	-	-	-	-	-	-	88	91	92	84	91	90
Estimate GoC	-	-	-	-	-	-	●	●	●	●	●	●
Official	-	-	-	-	-	-	88	91	92	84	91	90
Administrative	-	-	-	-	-	-	88	91	92	84	91	90
Survey	-	-	-	-	27	52	-	-	-	88	-	-

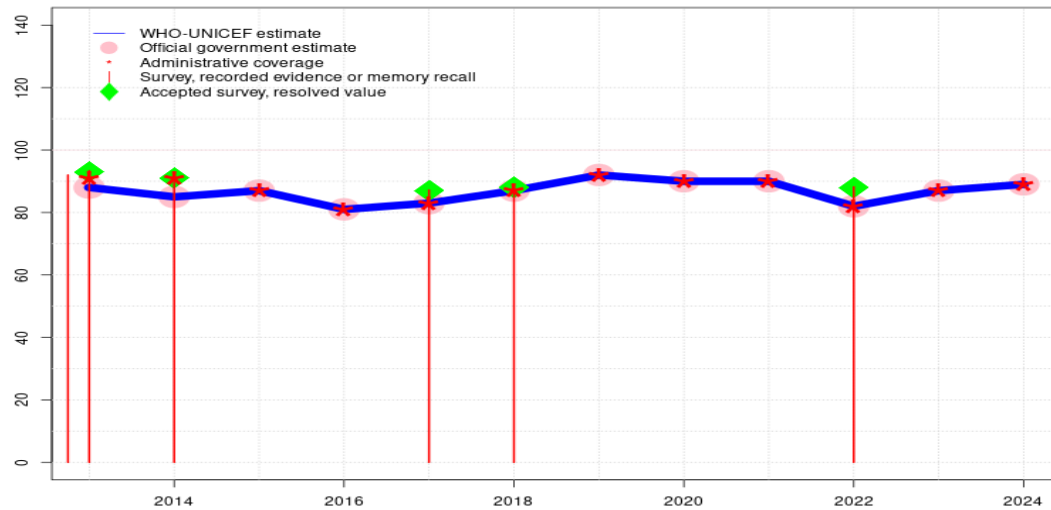
The WHO and UNICEF estimates of national immunization coverage (wuenic) are based on data and information that are of varying, and, in some instances, unknown quality. Beginning with the 2011 revision we describe the grade of confidence (GoC) we have in these estimates. As there is no underlying probability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

Malawi - MCV1

MWI - MCV1



Description:

- 2024: Estimate informed by reported data. Estimate challenged by: D-
- 2023: Estimate informed by reported data. Estimate challenged by: D-
- 2022: Estimate informed by reported data supported by survey.Survey evidence of 88 percent based on 1 survey(s). Estimate challenged by: D-
- 2021: Estimate informed by reported data. Estimate challenged by: D-
- 2020: Estimate informed by reported data. Programme reports service delivery disruptions during April to June 2020 due to COVID-19. Estimate challenged by: D-
- 2019: Estimate informed by reported data. Estimate challenged by: D-
- 2018: Estimate informed by reported data supported by survey.Survey evidence of 88 percent based on 1 survey(s). Estimate challenged by: D-
- 2017: Estimate informed by reported data supported by survey.Survey evidence of 87 percent based on 1 survey(s). Programme reports vaccine supply disruptions at district level. Estimate challenged by: D-
- 2016: Estimate informed by reported data. Estimate challenged by: D-
- 2015: Estimate informed by reported data. Estimate challenged by: D-
- 2014: Estimate informed by reported data supported by survey.Survey evidence of 91 percent based on 1 survey(s). Estimate challenged by: D-
- 2013: Estimate informed by reported data supported by survey.Survey evidence of 93 percent based on 2 survey(s). GoC=R+ S+ D+

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Estimate	88	85	87	81	83	87	92	90	90	82	87	89
Estimate GoC	●●●	●	●	●	●	●	●	●	●	●	●	●
Official	88	85	87	81	83	87	92	90	90	82	87	89
Administrative	91	91	87	81	83	87	92	90	90	82	87	89
Survey	*	91	-	-	87	88	-	-	-	88	-	-

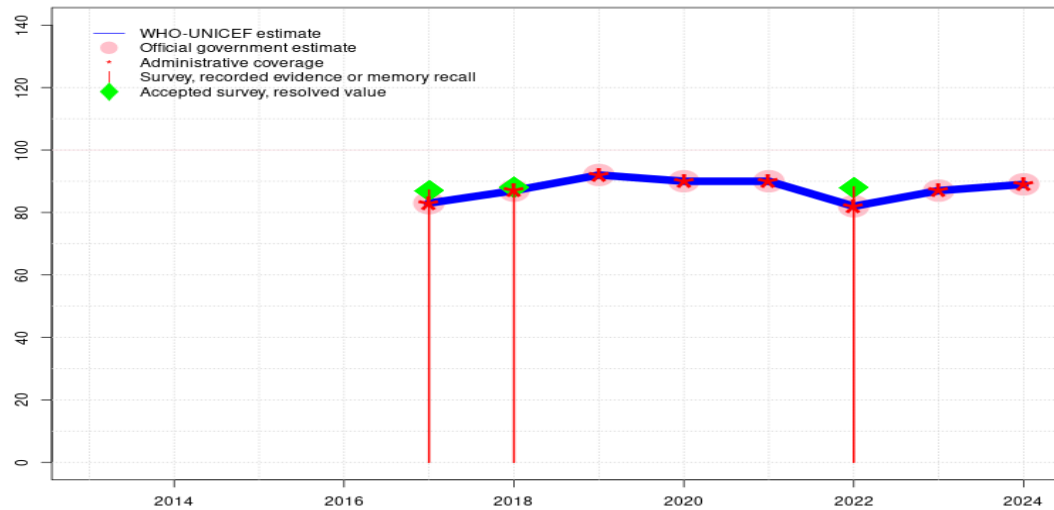
The WHO and UNICEF estimates of national immunization coverage (wuenic) are based on data and information that are of varying, and, in some instances, unknown quality. Beginning with the 2011 revision we describe the grade of confidence (GoC) we have in these estimates. As there is no underlying probability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

Malawi - RCV1

MWI - RCV1



Description:

2024: Estimate based on estimated MCV1. 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. Programme reports service delivery disruptions during April to June 2020 due to COVID-19. Estimate challenged by: D-
2019: Estimate based on estimated MCV1. Estimate challenged by: D-
2018: Estimate based on estimated MCV1. Estimate challenged by: D-
2017: Estimate based on estimated MCV1. Programme reports vaccine supply disruptions at district level. Rubella vaccine introduced in 2017 as MR vaccine and recommended at 9 and 15 months of age. Estimate challenged by: D-

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Estimate	-	-	-	-	83	87	92	90	90	82	87	89
Estimate GoC	-	-	-	-	●	●	●	●	●	●	●	●
Official	-	-	-	-	83	87	92	90	90	82	87	89
Administrative	-	-	-	-	83	87	92	90	90	82	87	89
Survey	-	-	-	-	87	88	-	-	-	88	-	-

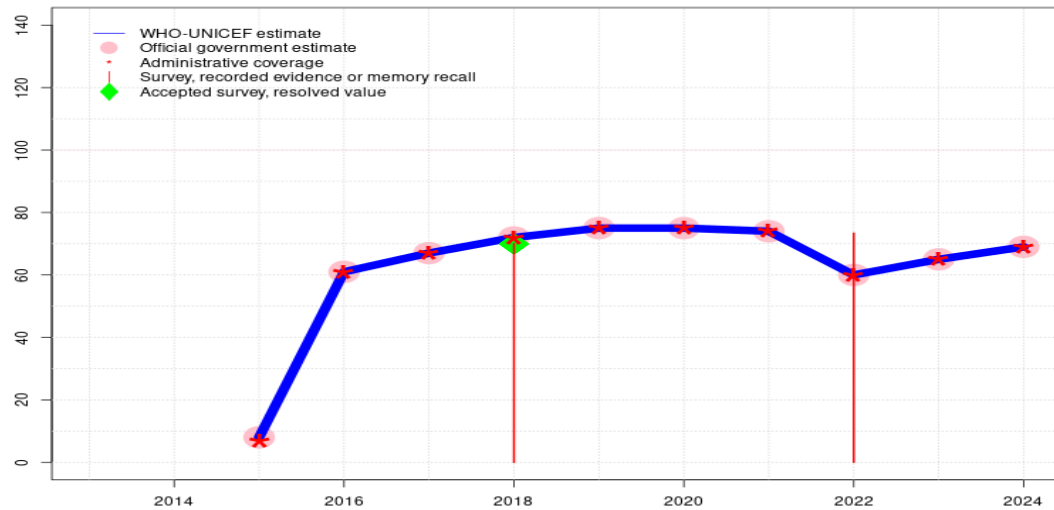
The WHO and UNICEF estimates of national immunization coverage (wuenic) are based on data and information that are of varying, and, in some instances, unknown quality. Beginning with the 2011 revision we describe the grade of confidence (GoC) we have in these estimates. As there is no underlying probability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

Malawi - MCV2

MWI - MCV2



Description:

- 2024: Estimate informed by reported data. Estimate challenged by: D-
- 2023: Estimate informed by reported data. Estimate challenged by: D-
- 2022: Estimate informed by reported data. Malawi Demographic and Health Survey (Key Indicators Report) 2023-2024 results ignored by working group. In contrast to other antigens, survey results are inconsistent with reported data. Consistency with other vaccine doses. GoC=R+ D+
- 2021: Estimate informed by reported data. Estimate challenged by: D-
- 2020: Estimate informed by reported data. Programme reports service delivery disruptions during April to June 2020 due to COVID-19. Estimate challenged by: D-
- 2019: Estimate informed by reported data. Estimate challenged by: D-
- 2018: Estimate informed by reported data supported by survey. Survey evidence of 70 percent based on 1 survey(s). Estimate challenged by: D-
- 2017: Estimate informed by reported data. Programme reports vaccine supply disruptions at district level. Estimate challenged by: D-
- 2016: Estimate informed by reported data. Estimate informed by reported data following introduction. Estimate challenged by: D-
- 2015: Estimate informed by reported data. Second dose of MCV introduced in 2015. GoC=R+ D+

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Estimate	-	-	8	61	67	72	75	75	74	60	65	69
Estimate GoC	-	-	••	•	•	•	•	•	•	••	•	•
Official	-	-	8	61	67	72	75	75	74	60	65	69
Administrative	-	-	7	61	67	72	75	75	74	60	65	69
Survey	-	-	-	-	-	70	-	-	-	73	-	-

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.

Malawi - 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 Malawi Demographic and Health Survey (Key Indicators Report) 2023-2024

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Evidence seen
BCG	Record or Recall	97.4	12-23 m	2503	73
DTP1	Record or Recall	96.8	12-23 m	2503	73
DTP3	Record or Recall	84.8	12-23 m	2503	73
HEPB1	Record or Recall	96.8	12-23 m	2503	73
HEPB3	Record or Recall	84.8	12-23 m	2503	73
HIB1	Record or Recall	96.8	12-23 m	2503	73
HIB3	Record or Recall	84.8	12-23 m	2503	73
IPV1	Record or Recall	88.2	12-23 m	2503	73
MCV1	Record or Recall	88.2	12-23 m	2503	73
MCV2	Record or Recall	73.4	24-35 m	2125	53
PCV1	Record or Recall	89.3	12-23 m	2503	73
PCV3	Record or Recall	76	12-23 m	2503	73
POL1	Record or Recall	96.2	12-23 m	2503	73
POL3	Record or Recall	74.2	12-23 m	2503	73
RCV1	Record or Recall	88.2	12-23 m	2503	73
ROTAC	Record or Recall	90.5	12-23 m	2503	73

2018 Malawi Multiple Indicator Cluster Survey 2019-2020

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Evidence seen
BCG	Recall	16.4	12-23 m	3201	81
BCG	Record	79.4	12-23 m	3201	81
BCG	Record or Recall	95.9	12-23 m	3201	81
BCG	Record or Recall<12m	95.6	12-23 m	3201	81
DTP1	Recall	16.1	12-23 m	3201	81
DTP1	Record	79.2	12-23 m	3201	81
DTP1	Record or Recall	95.4	12-23 m	3201	81
DTP1	Record or Recall<12m	95.2	12-23 m	3201	81
DTP3	Recall	11.8	12-23 m	3201	81
DTP3	Record	78.4	12-23 m	3201	81
DTP3	Record or Recall	90.3	12-23 m	3201	81
DTP3	Record or Recall<12m	89.2	12-23 m	3201	81
HEPB1	Recall	16.1	12-23 m	3201	81
HEPB1	Record	79.2	12-23 m	3201	81
HEPB1	Record or Recall	95.4	12-23 m	3201	81
HEPB1	Record or Recall<12m	95.2	12-23 m	3201	81
HEPB3	Recall	11.8	12-23 m	3201	81
HEPB3	Record	78.4	12-23 m	3201	81
HEPB3	Record or Recall	90.3	12-23 m	3201	81
HEPB3	Record or Recall<12m	89.2	12-23 m	3201	81
HIB1	Recall	16.1	12-23 m	3201	81
HIB1	Record	79.2	12-23 m	3201	81
HIB1	Record or Recall	95.4	12-23 m	3201	81
HIB1	Record or Recall<12m	95.2	12-23 m	3201	81
HIB3	Recall	11.8	12-23 m	3201	81
HIB3	Record	78.4	12-23 m	3201	81
HIB3	Record or Recall	90.3	12-23 m	3201	81
HIB3	Record or Recall<12m	89.2	12-23 m	3201	81
IPV1	Recall	1.2	12-23 m	3201	81
IPV1	Record	50.8	12-23 m	3201	81
IPV1	Record or Recall	52	12-23 m	3201	81
IPV1	Record or Recall<12m	29.3	12-23 m	3201	81
MCV1	Recall	15.2	12-23 m	3201	81
MCV1	Record	72.7	12-23 m	3201	81
MCV1	Record or Recall	87.9	12-23 m	3201	81
MCV1	Record or Recall<12m	82.8	12-23 m	3201	81
MCV2	Recall	22.5	24-35 m	3237	-
MCV2	Record	47.5	24-35 m	3237	-

Malawi - Survey Details

MCV2	Record or Recall	70	24-35 m	3237	-	DTP3	Record	58.5	24-35 m	3237	-
MCV2	Record or Recall<12m	61.5	24-35 m	3237	-	DTP3	Record or Recall	83.5	24-35 m	3237	-
PCV1	Recall	15	12-23 m	3201	81	DTP3	Record or Recall<12m	80.7	24-35 m	3237	-
PCV1	Record	73.5	12-23 m	3201	81	HEPB1	Recall	31.4	24-35 m	3237	-
PCV1	Record or Recall	88.5	12-23 m	3201	81	HEPB1	Record	59.3	24-35 m	3237	-
PCV1	Record or Recall<12m	88.3	12-23 m	3201	81	HEPB1	Record or Recall	90.7	24-35 m	3237	-
PCV3	Recall	10.4	12-23 m	3201	81	HEPB1	Record or Recall<12m	89.5	24-35 m	3237	-
PCV3	Record	72.7	12-23 m	3201	81	HEPB3	Recall	25	24-35 m	3237	-
PCV3	Record or Recall	83.2	12-23 m	3201	81	HEPB3	Record	58.5	24-35 m	3237	-
PCV3	Record or Recall<12m	82.3	12-23 m	3201	81	HEPB3	Record or Recall	83.5	24-35 m	3237	-
POL1	Recall	14	12-23 m	3201	81	HEPB3	Record or Recall<12m	80.7	24-35 m	3237	-
POL1	Record	79.4	12-23 m	3201	81	HIB1	Recall	31.4	24-35 m	3237	-
POL1	Record or Recall	93.4	12-23 m	3201	81	HIB1	Record	59.3	24-35 m	3237	-
POL1	Record or Recall<12m	93.2	12-23 m	3201	81	HIB1	Record or Recall	90.7	24-35 m	3237	-
POL3	Recall	1.4	12-23 m	3201	81	HIB1	Record or Recall<12m	89.5	24-35 m	3237	-
POL3	Record	78.1	12-23 m	3201	81	HIB3	Recall	25	24-35 m	3237	-
POL3	Record or Recall	79.5	12-23 m	3201	81	HIB3	Record	58.5	24-35 m	3237	-
POL3	Record or Recall<12m	78.6	12-23 m	3201	81	HIB3	Record or Recall	83.5	24-35 m	3237	-
RCV1	Recall	15.2	12-23 m	3201	81	HIB3	Record or Recall<12m	80.7	24-35 m	3237	-
RCV1	Record	72.7	12-23 m	3201	81	IPV1	Recall	4	24-35 m	3237	-
RCV1	Record or Recall	87.9	12-23 m	3201	81	IPV1	Record	23.4	24-35 m	3237	-
RCV1	Record or Recall<12m	82.8	12-23 m	3201	81	IPV1	Record or Recall	27.4	24-35 m	3237	-
ROTAC	Recall	13.1	12-23 m	3201	81	IPV1	Record or Recall<12m	6.8	24-35 m	3237	-
ROTAC	Record	77.7	12-23 m	3201	81	MCV1	Recall	30.3	24-35 m	3237	-
ROTAC	Record or Recall	90.8	12-23 m	3201	81	MCV1	Record	56.9	24-35 m	3237	-
ROTAC	Record or Recall<12m	89	12-23 m	3201	81	MCV1	Record or Recall	87.2	24-35 m	3237	-
						MCV1	Record or Recall<12m	79.6	24-35 m	3237	-
						PCV1	Recall	29.4	24-35 m	3237	-
						PCV1	Record	54.4	24-35 m	3237	-
						PCV1	Record or Recall	83.9	24-35 m	3237	-
						PCV1	Record or Recall<12m	82.9	24-35 m	3237	-
						PCV3	Recall	21.4	24-35 m	3237	-
						PCV3	Record	54	24-35 m	3237	-
						PCV3	Record or Recall	75.3	24-35 m	3237	-
						PCV3	Record or Recall<12m	72.9	24-35 m	3237	-
						POL1	Recall	27.8	24-35 m	3237	-
						POL1	Record	59.6	24-35 m	3237	-
						POL1	Record or Recall	87.4	24-35 m	3237	-
						POL1	Record or Recall<12m	86	24-35 m	3237	-
						POL3	Recall	4.8	24-35 m	3237	-

2017 Malawi Multiple Indicator Cluster Survey 2019-2020

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Evidence seen
BCG	Recall	31.5	24-35 m	3237	-
BCG	Record	60	24-35 m	3237	-
BCG	Record or Recall	91.5	24-35 m	3237	-
BCG	Record or Recall<12m	90.7	24-35 m	3237	-
DTP1	Recall	31.4	24-35 m	3237	-
DTP1	Record	59.3	24-35 m	3237	-
DTP1	Record or Recall	90.7	24-35 m	3237	-
DTP1	Record or Recall<12m	89.5	24-35 m	3237	-
DTP3	Recall	25	24-35 m	3237	-

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POL3	Record	58.7	24-35 m	3237	-
POL3	Record or Recall	63.5	24-35 m	3237	-
POL3	Record or Recall<12m	61.5	24-35 m	3237	-
RCV1	Recall	30.3	24-35 m	3237	-
RCV1	Record	56.9	24-35 m	3237	-
RCV1	Record or Recall	87.2	24-35 m	3237	-
RCV1	Record or Recall<12m	79.6	24-35 m	3237	-
ROTAC	Recall	26.9	24-35 m	3237	-
ROTAC	Record	58.6	24-35 m	3237	-
ROTAC	Record or Recall	85.4	24-35 m	3237	-
ROTAC	Record or Recall<12m	82.8	24-35 m	3237	-

2014 Malawi Demographic and Health Survey 2015-2016

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Evidence seen
BCG	Record	78.2	12-23 m	2548	79
BCG	Record or Recall	97.6	12-23 m	3230	79
BCG	Record or Recall<12m	97	12-23 m	3230	79
DTP1	Record	78.5	12-23 m	2548	79
DTP1	Record or Recall	97.4	12-23 m	3230	79
DTP1	Record or Recall<12m	97.2	12-23 m	3230	79
DTP3	Record	76.7	12-23 m	2548	79
DTP3	Record or Recall	93	12-23 m	3230	79
DTP3	Record or Recall<12m	91.9	12-23 m	3230	79
HEPB1	Record	78.5	12-23 m	2548	79
HEPB1	Record or Recall	97.4	12-23 m	3230	79
HEPB1	Record or Recall<12m	97.2	12-23 m	3230	79
HEPB3	Record	76.7	12-23 m	2548	79
HEPB3	Record or Recall	93	12-23 m	3230	79
HEPB3	Record or Recall<12m	91.9	12-23 m	3230	79
HIB1	Record	78.5	12-23 m	2548	79
HIB1	Record or Recall	97.4	12-23 m	3230	79
HIB1	Record or Recall<12m	97.2	12-23 m	3230	79
HIB3	Record	76.7	12-23 m	2548	79
HIB3	Record or Recall	93	12-23 m	3230	79
HIB3	Record or Recall<12m	91.9	12-23 m	3230	79
MCV1	Record	73.2	12-23 m	2548	79
MCV1	Record or Recall	91.3	12-23 m	3230	79
MCV1	Record or Recall<12m	85.3	12-23 m	3230	79

PCV1	Record	78	12-23 m	2548	79
PCV1	Record or Recall	96.4	12-23 m	3230	79
PCV1	Record or Recall<12m	96	12-23 m	3230	79
PCV3	Record	75	12-23 m	2548	79
PCV3	Record or Recall	89.2	12-23 m	3230	79
PCV3	Record or Recall<12m	88.1	12-23 m	3230	79
POL1	Record	78.3	12-23 m	2548	79
POL3	Record	73.9	12-23 m	2548	79
POL3	Record or Recall	81.2	12-23 m	3230	79
POL3	Record or Recall<12m	96.6	12-23 m	3230	79
ROTAC	Record	74.5	12-23 m	2548	79
ROTAC	Record or Recall	91.4	12-23 m	3230	79
ROTAC	Record or Recall<12m	90.2	12-23 m	3230	79

2013 Malawi Demographic and Health Survey 2015-2016

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Evidence seen
BCG	Record	65.3	24-35 m	2163	-
BCG	Record or Recall	96.9	24-35 m	3261	-
BCG	Record or Recall<12m	95	24-35 m	3261	-
DTP1	Record	65.6	24-35 m	2163	-
DTP1	Record or Recall	97.1	24-35 m	3261	-
DTP1	Record or Recall<12m	95.3	24-35 m	3261	-
DTP3	Record	64.5	24-35 m	2163	-
DTP3	Record or Recall	91.4	24-35 m	3261	-
DTP3	Record or Recall<12m	88.1	24-35 m	3261	-
HEPB1	Record	65.6	24-35 m	2163	-
HEPB1	Record or Recall	97.1	24-35 m	3261	-
HEPB1	Record or Recall<12m	95.3	24-35 m	3261	-
HEPB3	Record	64.5	24-35 m	2163	-
HEPB3	Record or Recall	91.4	24-35 m	3261	-
HEPB3	Record or Recall<12m	88.1	24-35 m	3261	-
HIB1	Record	65.6	24-35 m	2163	-
HIB1	Record or Recall	97.1	24-35 m	3261	-
HIB1	Record or Recall<12m	95.3	24-35 m	3261	-
HIB3	Record	64.5	24-35 m	2163	-
HIB3	Record or Recall	91.4	24-35 m	3261	-
HIB3	Record or Recall<12m	88.1	24-35 m	3261	-
MCV1	Record	62.7	24-35 m	2163	-

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MCV1	Record or Recall	93.4	24-35 m	3261	-
MCV1	Record or Recall<12m	82.8	24-35 m	3261	-
PCV1	Record	64.9	24-35 m	2163	-
PCV1	Record or Recall	95.5	24-35 m	3261	-
PCV1	Record or Recall<12m	93.8	24-35 m	3261	-
PCV3	Record	63.2	24-35 m	2163	-
PCV3	Record or Recall	87.4	24-35 m	3261	-
PCV3	Record or Recall<12m	84.1	24-35 m	3261	-
POL1	Record	65.8	24-35 m	2163	-
POL3	Record	62	24-35 m	2163	-
POL3	Record or Recall	75.5	24-35 m	3261	-
POL3	Record or Recall<12m	94.5	24-35 m	3261	-
ROTAC	Record	62	24-35 m	2163	-
ROTAC	Record or Recall	89.5	24-35 m	3261	-
ROTAC	Record or Recall<12m	86.9	24-35 m	3261	-

2013 Malawi MDG Endline Survey 2014

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Evidence seen
BCG	Recall	15.3	12-23 m	-	84
BCG	Record	82.8	12-23 m	-	84
BCG	Record or Recall	98.2	12-23 m	3755	84
BCG	Record or Recall<12m	96.4	12-23 m	3755	84
DTP1	Recall	15.1	12-23 m	-	84
DTP1	Record	83.1	12-23 m	-	84
DTP1	Record or Recall	98.2	12-23 m	3755	84
DTP1	Record or Recall<12m	96.9	12-23 m	3755	84
DTP3	Recall	11.9	12-23 m	-	84
DTP3	Record	80.8	12-23 m	-	84
DTP3	Record or Recall	92.6	12-23 m	3755	84
DTP3	Record or Recall<12m	90.4	12-23 m	3755	84
HEPB1	Recall	15.1	12-23 m	-	84
HEPB1	Record	83.1	12-23 m	-	84
HEPB1	Record or Recall	98.2	12-23 m	3755	84
HEPB1	Record or Recall<12m	96.9	12-23 m	3755	84
HEPB3	Recall	11.9	12-23 m	-	84
HEPB3	Record	80.8	12-23 m	-	84
HEPB3	Record or Recall	92.6	12-23 m	3755	84
HEPB3	Record or Recall<12m	90.4	12-23 m	3755	84

HIB1	Recall	15.1	12-23 m	-	84
HIB1	Record	83.1	12-23 m	-	84
HIB1	Record or Recall	98.2	12-23 m	3755	84
HIB1	Record or Recall<12m	96.9	12-23 m	3755	84
HIB3	Recall	11.9	12-23 m	-	84
HIB3	Record	80.8	12-23 m	-	84
HIB3	Record or Recall	92.6	12-23 m	3755	84
HIB3	Record or Recall<12m	90.4	12-23 m	3755	84
MCV1	Recall	16.9	12-23 m	-	84
MCV1	Record	75.2	12-23 m	-	84
MCV1	Record or Recall	92	12-23 m	3755	84
MCV1	Record or Recall<12m	85.1	12-23 m	3755	84
PCV1	Recall	15.1	12-23 m	-	84
PCV1	Record	81.9	12-23 m	-	84
PCV1	Record or Recall	97	12-23 m	3755	84
PCV1	Record or Recall<12m	95.2	12-23 m	3755	84
PCV3	Recall	11.2	12-23 m	-	84
PCV3	Record	78.3	12-23 m	-	84
PCV3	Record or Recall	89.4	12-23 m	3755	84
PCV3	Record or Recall<12m	87.3	12-23 m	3755	84
POL1	Recall	15.3	12-23 m	-	84
POL1	Record	82.8	12-23 m	-	84
POL1	Record or Recall	98.1	12-23 m	3755	84
POL1	Record or Recall<12m	96.3	12-23 m	3755	84
POL3	Recall	12.1	12-23 m	-	84
POL3	Record	78.4	12-23 m	-	84
POL3	Record or Recall	90.5	12-23 m	3755	84
POL3	Record or Recall<12m	87.5	12-23 m	3755	84
ROTAC	Recall	16.1	12-23 m	-	84
ROTAC	Record	47.3	12-23 m	-	84
ROTAC	Record or Recall	63.4	12-23 m	3755	84
ROTAC	Record or Recall<12m	60.3	12-23 m	3755	84

2012 Malawi MDG Endline Survey 2014

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Evidence seen
BCG	Recall	36.3	24-35 m	-	-
BCG	Record	60.1	24-35 m	-	-
BCG	Record or Recall	96.4	24-35 m	3936	-

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BCG	Record or Recall<12m	93.4	24-35 m	3936	-
DTP1	Recall	35.6	24-35 m	-	-
DTP1	Record	60.9	24-35 m	-	-
DTP1	Record or Recall	96.6	24-35 m	3936	-
DTP1	Record or Recall<12m	94.3	24-35 m	3936	-
DTP3	Recall	28.2	24-35 m	-	-
DTP3	Record	59.6	24-35 m	-	-
DTP3	Record or Recall	87.8	24-35 m	3936	-
DTP3	Record or Recall<12m	85.2	24-35 m	3936	-
HEPB1	Recall	35.6	24-35 m	-	-
HEPB1	Record	60.9	24-35 m	-	-
HEPB1	Record or Recall	96.6	24-35 m	3936	-
HEPB1	Record or Recall<12m	94.3	24-35 m	3936	-
HEPB3	Recall	28.2	24-35 m	-	-
HEPB3	Record	59.6	24-35 m	-	-
HEPB3	Record or Recall	87.8	24-35 m	3936	-
HEPB3	Record or Recall<12m	85.2	24-35 m	3936	-
HIB1	Recall	35.6	24-35 m	-	-
HIB1	Record	60.9	24-35 m	-	-
HIB1	Record or Recall	96.6	24-35 m	3936	-
HIB1	Record or Recall<12m	94.3	24-35 m	3936	-
HIB3	Recall	28.2	24-35 m	-	-
HIB3	Record	59.6	24-35 m	-	-
HIB3	Record or Recall	87.8	24-35 m	3936	-
HIB3	Record or Recall<12m	85.2	24-35 m	3936	-
MCV1	Recall	36.7	24-35 m	-	-
MCV1	Record	55.7	24-35 m	-	-
MCV1	Record or Recall	92.4	24-35 m	3936	-
MCV1	Record or Recall<12m	82	24-35 m	3936	-
PCV1	Recall	36.8	24-35 m	-	-
PCV1	Record	53.6	24-35 m	-	-
PCV1	Record or Recall	90.4	24-35 m	3936	-
PCV1	Record or Recall<12m	84.6	24-35 m	3936	-
PCV3	Recall	29.5	24-35 m	-	-
PCV3	Record	46.1	24-35 m	-	-
PCV3	Record or Recall	75.6	24-35 m	3936	-
PCV3	Record or Recall<12m	67.3	24-35 m	3936	-
POL1	Recall	36	24-35 m	-	-
POL1	Record	60.4	24-35 m	-	-
POL1	Record or Recall	96.4	24-35 m	3936	-

POL1	Record or Recall<12m	93.1	24-35 m	3936	-
POL3	Recall	28.5	24-35 m	-	-
POL3	Record	59	24-35 m	-	-
POL3	Record or Recall	87.5	24-35 m	3936	-
POL3	Record or Recall<12m	83.6	24-35 m	3936	-
ROTAC	Recall	23.1	24-35 m	-	-
ROTAC	Record	2.9	24-35 m	-	-
ROTAC	Record or Recall	26	24-35 m	3936	-
ROTAC	Record or Recall<12m	11.7	24-35 m	3936	-

2009 Malawi Demographic and Health Survey 2010

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Evidence seen
BCG	Recall	17.2	12-23 m	3774	81
BCG	Record	80	12-23 m	3774	81
BCG	Record or Recall	97.2	12-23 m	3774	81
BCG	Record or Recall<12m	96.3	12-23 m	3774	81
DTP1	Recall	17.1	12-23 m	3774	81
DTP1	Record	80.2	12-23 m	3774	81
DTP1	Record or Recall	97.3	12-23 m	3774	81
DTP1	Record or Recall<12m	96.5	12-23 m	3774	81
DTP3	Recall	14.3	12-23 m	3774	81
DTP3	Record	78.7	12-23 m	3774	81
DTP3	Record or Recall	93	12-23 m	3774	81
DTP3	Record or Recall<12m	91.9	12-23 m	3774	81
HEPB1	Recall	17.1	12-23 m	3774	81
HEPB1	Record	80.2	12-23 m	3774	81
HEPB1	Record or Recall	97.3	12-23 m	3774	81
HEPB1	Record or Recall<12m	96.5	12-23 m	3774	81
HEPB3	Recall	14.3	12-23 m	3774	81
HEPB3	Record	78.7	12-23 m	3774	81
HEPB3	Record or Recall	93	12-23 m	3774	81
HEPB3	Record or Recall<12m	91.9	12-23 m	3774	81
HIB1	Recall	17.1	12-23 m	3774	81
HIB1	Record	80.2	12-23 m	3774	81
HIB1	Record or Recall	97.3	12-23 m	3774	81
HIB1	Record or Recall<12m	96.5	12-23 m	3774	81
HIB3	Recall	14.3	12-23 m	3774	81
HIB3	Record	78.7	12-23 m	3774	81

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HIB3	Record or Recall	93	12-23 m	3774	81
HIB3	Record or Recall<12m	91.9	12-23 m	3774	81
MCV1	Recall	16.8	12-23 m	3774	81
MCV1	Record	76.2	12-23 m	3774	81
MCV1	Record or Recall	93	12-23 m	3774	81
MCV1	Record or Recall<12m	82.6	12-23 m	3774	81
POL1	Recall	16.5	12-23 m	3774	81
POL1	Record	80.2	12-23 m	3774	81
POL1	Record or Recall	96.6	12-23 m	3774	81
POL1	Record or Recall<12m	95.8	12-23 m	3774	81
POL3	Recall	7.4	12-23 m	3774	81
POL3	Record	78.3	12-23 m	3774	81
POL3	Record or Recall	85.6	12-23 m	3774	81
POL3	Record or Recall<12m	84.4	12-23 m	3774	81

2005 Malawi Multiple Indicator Cluster Survey 2006

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Evidence seen
BCG	Recall	20.8	12-23 m	5080	77
BCG	Record	74.9	12-23 m	5080	77
BCG	Record or Recall	95.7	12-23 m	5080	77
BCG	Record or Recall<12m	95.2	12-23 m	5080	77
DTP1	Recall	20.6	12-23 m	5080	77
DTP1	Record	75.6	12-23 m	5080	77
DTP1	Record or Recall	96.2	12-23 m	5080	77
DTP1	Record or Recall<12m	95.3	12-23 m	5080	77
DTP3	Recall	13.7	12-23 m	5080	77
DTP3	Record	72.7	12-23 m	5080	77
DTP3	Record or Recall	86.4	12-23 m	5080	77
DTP3	Record or Recall<12m	84.4	12-23 m	5080	77
HEPB1	Recall	20.6	12-23 m	5080	77
HEPB1	Record	75.6	12-23 m	5080	77
HEPB1	Record or Recall	96.2	12-23 m	5080	77
HEPB1	Record or Recall<12m	95.3	12-23 m	5080	77
HEPB3	Recall	13.7	12-23 m	5080	77
HEPB3	Record	72.7	12-23 m	5080	77
HEPB3	Record or Recall	86.4	12-23 m	5080	77
HEPB3	Record or Recall<12m	84.4	12-23 m	5080	77
HIB1	Recall	20.6	12-23 m	5080	77

HIB1	Record	75.6	12-23 m	5080	77
HIB1	Record or Recall	96.2	12-23 m	5080	77
HIB1	Record or Recall<12m	95.3	12-23 m	5080	77
HIB3	Recall	13.7	12-23 m	5080	77
HIB3	Record	72.7	12-23 m	5080	77
HIB3	Record or Recall	86.4	12-23 m	5080	77
HIB3	Record or Recall<12m	84.4	12-23 m	5080	77
MCV1	Recall	18.9	12-23 m	5080	77
MCV1	Record	65.5	12-23 m	5080	77
MCV1	Record or Recall	84.4	12-23 m	5080	77
MCV1	Record or Recall<12m	75.9	12-23 m	5080	77
POL1	Recall	19.9	12-23 m	5080	77
POL1	Record	75.6	12-23 m	5080	77
POL1	Record or Recall	95.5	12-23 m	5080	77
POL1	Record or Recall<12m	95.2	12-23 m	5080	77
POL3	Recall	8.8	12-23 m	5080	77
POL3	Record	72.4	12-23 m	5080	77
POL3	Record or Recall	81.3	12-23 m	5080	77
POL3	Record or Recall<12m	79.1	12-23 m	5080	77

2003 Malawi Demographic and Health Survey 2004

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Evidence seen
BCG	Recall	21.1	12-23 m	2194	74
BCG	Record	70.3	12-23 m	2194	74
BCG	Record or Recall	91.4	12-23 m	2194	74
BCG	Record or Recall<12m	89.7	12-23 m	2194	74
DTP1	Recall	21.6	12-23 m	2194	74
DTP1	Record	73.3	12-23 m	2194	74
DTP1	Record or Recall	95	12-23 m	2194	74
DTP1	Record or Recall<12m	94	12-23 m	2194	74
DTP3	Recall	14.3	12-23 m	2194	74
DTP3	Record	67.2	12-23 m	2194	74
DTP3	Record or Recall	81.5	12-23 m	2194	74
DTP3	Record or Recall<12m	76.1	12-23 m	2194	74
MCV1	Recall	16.9	12-23 m	2194	74
MCV1	Record	61.8	12-23 m	2194	74
MCV1	Record or Recall	78.7	12-23 m	2194	74
MCV1	Record or Recall<12m	62.7	12-23 m	2194	74

POL1	Recall	21.3	12-23 m	2194	74
POL1	Record	73.7	12-23 m	2194	74
POL1	Record or Recall	94.9	12-23 m	2194	74
POL1	Record or Recall<12m	93.9	12-23 m	2194	74
POL3	Recall	10.2	12-23 m	2194	74
POL3	Record	67.4	12-23 m	2194	74
POL3	Record or Recall	77.7	12-23 m	2194	74
POL3	Record or Recall<12m	73.2	12-23 m	2194	74

1999 Malawi Demographic and Health Survey 2000, 2001

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Evidence seen
BCG	Recall	15.4	12-23 m	2238	81
BCG	Record	76.9	12-23 m	2238	81
BCG	Record or Recall	91.4	12-23 m	2238	81
BCG	Record or Recall<12m	89.7	12-23 m	2238	81
DTP1	Recall	15.5	12-23 m	2238	81
DTP1	Record	80.3	12-23 m	2238	81
DTP1	Record or Recall	95.9	12-23 m	2238	81
DTP1	Record or Recall<12m	93.8	12-23 m	2238	81
DTP3	Recall	10.4	12-23 m	2238	81
DTP3	Record	73.7	12-23 m	2238	81
DTP3	Record or Recall	84.2	12-23 m	2238	81
DTP3	Record or Recall<12m	78.6	12-23 m	2238	81
MCV1	Recall	13	12-23 m	2238	81
MCV1	Record	70.2	12-23 m	2238	81
MCV1	Record or Recall	83.2	12-23 m	2238	81

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

MCV1	Record or Recall<12m	64.2	12-23 m	2238	81
POL1	Recall	15.6	12-23 m	2238	81
POL1	Record	80.1	12-23 m	2238	81
POL1	Record or Recall	95.7	12-23 m	2238	81
POL1	Record or Recall<12m	93.3	12-23 m	2238	81
POL3	Recall	7.4	12-23 m	2238	81
POL3	Record	72.4	12-23 m	2238	81
POL3	Record or Recall	79.8	12-23 m	2238	81
POL3	Record or Recall<12m	72.7	12-23 m	2238	81

1998 National EPI Comprehensive Review Report, 1999

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Evidence seen
BCG	Record	86.2	11-23 m	210	93
BCG	Record or Recall	92.4	11-23 m	210	93
DTP1	Record	91	11-23 m	210	93
DTP1	Record or Recall	97	11-23 m	210	93
DTP3	Record	88	11-23 m	210	93
DTP3	Record or Recall	94	11-23 m	210	93
MCV1	Record	85	11-23 m	210	93
MCV1	Record or Recall	90	11-23 m	210	93
POL1	Record	90.9	11-23 m	210	93
POL1	Record or Recall	97.1	11-23 m	210	93
POL3	Record	87	11-23 m	210	93
POL3	Record or Recall	93	11-23 m	210	93