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 the 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 the available empirical data accurately reflect immunization system performance and those where the data are likely to be compromised and present a misleading view of immunization coverage while jointly estimating the most likely coverage levels for each country.

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:

*Brown et al. 2013. An introduction to the grade of confidence used to characterize uncertainty around immunization coverage: a computational logic approach.
*Brown et al. 2013. An introduction to the grade of confidence used to characterize uncertainty around the WHO and UNICEF estimates of national immunization coverage.

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 12-23 months 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 the period of data collection.

ABBREVIATIONS
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 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 among countries. For countries utilizing IPV containing vaccine use only, i.e., no recommended dose of OPV, the 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.
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 nor are the data represented in the accompanying graph and data table.
HepBB: 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.
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.

Disclaimer: All reasonable precautions have been taken by the World Health Organization and United Nations Children’s Fund to verify the information contained in this publication. However, the published material is being distributed without warranty of any kind, either expressed or implied. The responsibility for the interpretation and use of the material lies with the reader. In no event shall the World Health Organization or United Nations Children’s Fund be liable for damages arising from its use.
The WHO and UNICEF estimates of national immunization coverage (vaccine) 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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<th>Administrative</th>
<th>Survey</th>
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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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**Description:**

2021: Estimate based on coverage reported by national government. GoC=R+ D+

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2017: Estimate based on interpolation between data reported by national government supported
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2013: Estimate of 98 percent assigned by working group. Estimate is based on survey results.
Rwanda Demographic and Health Survey 2014-15 card or history results of 97 percent
modified for recall bias to 98 percent based on 1st dose card or history coverage of 99
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percent. Reported data excluded because 102 percent greater than 100 percent. Estimate
challenged by: R-
2012: Estimate of 98 percent assigned by working group. Estimate is based on survey results.
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The WHO and UNICEF estimates of national immunization coverage (wuenic) are based on data and information
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Description:

Estimates for a dose of inactivated polio vaccine (IPV) begin in 2015 following the Global Polio Eradication Initiative’s Polio Eradication and Endgame Strategic Plan: 2013-2018 which recommended at least one full dose or two fractional doses of IPV into routine immunization schedules as a strategy to mitigate the potential consequences should any re-emergence of type 2 poliovirus occur following the planned withdrawal of Sabin type 2 strains from oral polio vaccine (OPV).

2021: Estimate based on reported data following introduction. Estimate challenged by: R-

2020: Estimate based on reported data following introduction. Official estimate based on previous year WHO UNICEF estimated coverage. Estimate challenged by: R-

2019: Reported data calibrated to 2018 levels. Estimate of 99 percent changed from previous revision value of 98 percent. Estimate challenged by: D-R-S-

2018: Survey evidence does not support reported data. Estimate based on survey results. Survey evidence of 92 percent based on 1 survey(s). Inactivated polio vaccine introduced during March 2018. Estimate of 92 percent changed from previous revision value of 81 percent. Estimate challenged by: D-R-

The WHO and UNICEF estimates of national immunization coverage (wveci) 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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### Description:

**2021**: Estimate based on coverage reported by national government. GoC=R+ D+

**2020**: Estimate based on reported administrative data. Official estimate based on previous year WHO UNICEF estimated coverage. GoC=R+ S+ D+

**2019**: Estimate based on coverage reported by national government. GoC=R+ S+ D+

**2018**: Estimate based on coverage reported by national government supported by survey. Survey evidence of 98 percent based on 1 survey(s). GoC=R+ S+ D+

**2017**: Estimate based on interpolation between data reported by national government supported by survey. Survey evidence of 98 percent based on 1 survey(s). Reported data excluded because 102 percent greater than 100 percent. GoC=R+ S+ D+

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**2015**: Estimate based on interpolation between coverage reported by national government. Reported data excluded because 101 percent greater than 100 percent. GoC=R+ S+ D+

**2014**: Estimate is based on reported data. GoC=R+ S+ D+

**2013**: Estimate of 95 percent assigned by working group. Estimate is based on survey results. Reported data excluded. Reported coverage for all other antigens is 100 percent or greater thereby suggesting an underestimated target population size. Estimate challenged by: R-

**2012**: Estimate of 97 percent assigned by working group. Estimate is based on survey results. Reported data excluded because 102 percent greater than 100 percent. The number of children vaccinated with BCG was used as the proxy of target populations for all other antigens. This measure is temporary pending the availability of the 2012 census results. GoC=Assigned by working group.

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Rwanda - MCV2

Description:

Coverage estimates for the second dose of measles containing vaccine are for children by the nationally recommended age.

2021: Estimate based on coverage reported by national government. GoC=R+ D+
2020: Estimate based on reported administrative data. Official estimate based on previous year WHO UNICEF estimated coverage. GoC=R+ S+ D+
2019: Estimate based on coverage reported by national government. GoC=R+ S+ D+
2018: Estimate based on coverage reported by national government supported by survey. Survey evidence of 94 percent based on 1 survey(s). GoC=R+ S+ D+
2017: Estimate based on reported data. GoC=R+ S+ D+
2016: Estimate based on reported data. The final results of the 2012 Census were released by the National Institute of Statistics of Rwanda in April 2014. WHO and UNICEF recommend a revision of the reported coverage time series using updated population estimates. GoC=R+ S+ D+
2015: Estimate based on reported data. Second dose of MCV introduced during July 2014, reporting started in 2015. GoC=R+ D+

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July 8, 2022; page 9 WHO and UNICEF estimates of national immunization coverage - next revision available July 15, 2023 data received as of July 7, 2022
The WHO and UNICEF estimates of national immunization coverage (vumatic) 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.

Describe the coverage estimates for the first dose of rubella containing vaccine:

- **2021**: Estimate based on estimated MCV1. GoC=R+ D+
- **2020**: Estimate based on estimated MCV1. Official estimate based on previous year WHO UNICEF estimated coverage. GoC=R+ S+ D+
- **2019**: Estimate based on estimated MCV1. GoC=R+ S+ D+
- **2018**: Estimate based on estimated MCV1. GoC=R+ S+ D+
- **2017**: Estimate based on estimated MCV1. GoC=R+ S+ D+
- **2016**: Estimate based on estimated MCV1. The final results of the 2012 Census were released by the National Institute of Statistics of Rwanda in April 2014. WHO and UNICEF recommend a revision of the reported coverage time series using updated population estimates. GoC=R+ S+ D+

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.
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: 2022 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.
Rwanda - HepB3

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-]; challenges 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:

- **2021**: Estimate based on coverage reported by national government. GoC=R+ D+
- **2020**: Estimate based on reported administrative data. Official estimate based on previous year WHO UNICEF estimated coverage. GoC=R+ S+ D+
- **2019**: Estimate based on coverage reported by national government. GoC=R+ S+ D+
- **2018**: Estimate based on coverage reported by national government supported by survey. Survey evidence of 99 percent based on 1 survey(s). GoC=R+ S+ D+
- **2017**: Estimate based on interpolation between data reported by national government supported by survey. Survey evidence of 99 percent based on 1 survey(s). Reported data excluded because 103 percent greater than 100 percent. GoC=R+ S+ D+
- **2016**: Estimate based on coverage reported by national government. The final results of the 2012 Census were released by the National Institute of Statistics of Rwanda in April 2014. WHO and UNICEF recommend a revision of the reported coverage time series using updated population estimates. GoC=R+ S+ D+
- **2015**: Estimate based on interpolation between data reported by national government. Reported data excluded because 101 percent greater than 100 percent. GoC=R+ S+ D+
- **2014**: Estimate based on coverage reported by national government. GoC=R+ S+ D+
- **2013**: Estimate based on interpolation between data reported by national government supported by survey. Survey evidence of 99 percent based on 1 survey(s). Reported data excluded because 102 percent greater than 100 percent. GoC=R+ S+ D+
- **2012**: Estimate of 98 percent assigned by working group. GoC=Assigned by working group.
- **2011**: Estimate is based on reported data. Official government estimates of coverage from 2009-2011 are based on the 2010 DHS results of coverage among children 12-23 months of age vaccinated by 12 months of age documented by card or caretaker recall. GoC=R+ S+ D+
- **2010**: Estimate based on coverage reported by national government. Official government estimates of coverage from 2009-2011 are based on the 2010 DHS results of coverage among children 12-23 months of age vaccinated by 12 months of age documented by card or caretaker recall. Estimate challenged by: D-
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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- **2016**: Estimate based on coverage reported by national government. The final results of the 2012 Census were released by the National Institute of Statistics of Rwanda in April 2014. WHO and UNICEF recommend a revision of the reported coverage time series using updated population estimates. GoC=R+ S+ D+
- **2015**: Estimate based on interpolation between data reported by national government. Reported data excluded because 101 percent greater than 100 percent. GoC=R+ S+ D+
- **2014**: Estimate based on coverage reported by national government. GoC=R+ S+ D+
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July 8, 2022; page 13  
WHO and UNICEF estimates of national immunization coverage - next revision available July 15, 2023  
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### Description:

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2019: Estimate based on coverage reported by national government. GoC=R+ S+ D+

2018: Estimate based on coverage reported by national government supported by survey. Survey evidence of 99 percent based on 1 survey(s). GoC=R+ S+ D+

2017: Estimate based on interpolation between data reported by national government supported by survey. Survey evidence of 98 percent based on 1 survey(s). Rwanda Demographic and Health Survey 2019-2020 card or history results of 99 percent modified for recall bias to 98 percent based on 1st dose card or history coverage of 99 percent, 1st dose card only coverage of 93 percent and 3rd dose card only coverage of 92 percent. Reported data excluded because 103 percent greater than 100 percent. GoC=R+ S+ D+

2016: Estimate based on coverage reported by national government. The final results of the 2012 Census were released by the National Institute of Statistics of Rwanda in April 2014. WHO and UNICEF recommend a revision of the reported coverage time series using updated population estimates. GoC=R+ S+ D+

2015: Estimate based on interpolation between coverage reported by national government. Reported data excluded because 101 percent greater than 100 percent. GoC=R+ S+ D+

2014: Estimate based on reported data. GoC=R+ S+ D+

2013: Reported data calibrated to 2012 and 2014 levels. Reported data excluded because 102 percent greater than 100 percent. Estimate challenged by: R-

2012: Estimate of 98 percent assigned by working group. Estimate is based on survey results. Integrated Post Measles-Rubella campaign and Routine Immunization Coverage Evaluation Survey 2013 card or history results of 98 percent modified for recall bias to 97 percent based on 1st dose card or history coverage of 98 percent, 1st dose card only coverage of 75 percent and 3rd dose card only coverage of 74 percent. Reported data excluded because 101 percent greater than 100 percent. The number of children vaccinated with BCG was used as the proxy of target populations for all other antigens. This measure is temporary pending the availability of the 2012 census results. GoC=Assigned by working group.

2011: Estimate is based on reported data. Official government estimates of coverage from 2009-2011 are based on the 2010 DHS results of coverage among children 12-23 months of age vaccinated by 12 months of age documented by card or caretaker recall. GoC=R+ S+

2010: Estimate based on reported data. Official government estimates of coverage from 2009-2011 are based on the 2010 DHS results of coverage among children 12-23 months of age vaccinated by 12 months of age documented by card or caretaker recall. Pneumococcal conjugate vaccine introduced in 2009. Reporting started in 2010. Estimate challenged by: D-
### 2018 Rwanda Demographic and Health Survey 2019-2020

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2013 Rwanda Demographic and Health Survey 2014-15
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July 8, 2022; page 19 WHO and UNICEF estimates of national immunization coverage - next revision available July 15, 2023 data received as of July 7, 2022
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2006 Enquête nationale de couverture vaccinale à Rwanda, 2007

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2004 Rwanda Demographic and Health Survey 2005

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2002 Rwanda, Evaluation de la campagne contre la rougeole et la vaccination de routine, 2003 - documentation not available

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July 8, 2022; page 21  
WHO and UNICEF estimates of national immunization coverage - next revision available July 15, 2023  
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<th>Successful Surveys</th>
</tr>
</thead>
<tbody>
<tr>
<td>DTP1</td>
<td>&lt;12</td>
<td>91.9</td>
<td>1297</td>
<td>66</td>
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<tr>
<td>DTP3</td>
<td>&lt;12</td>
<td>79.5</td>
<td>1297</td>
<td>66</td>
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<tr>
<td>MCV1</td>
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<tr>
<td>Pol1</td>
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<td>94</td>
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<tr>
<td>Pol3</td>
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<td>81.7</td>
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</table>

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