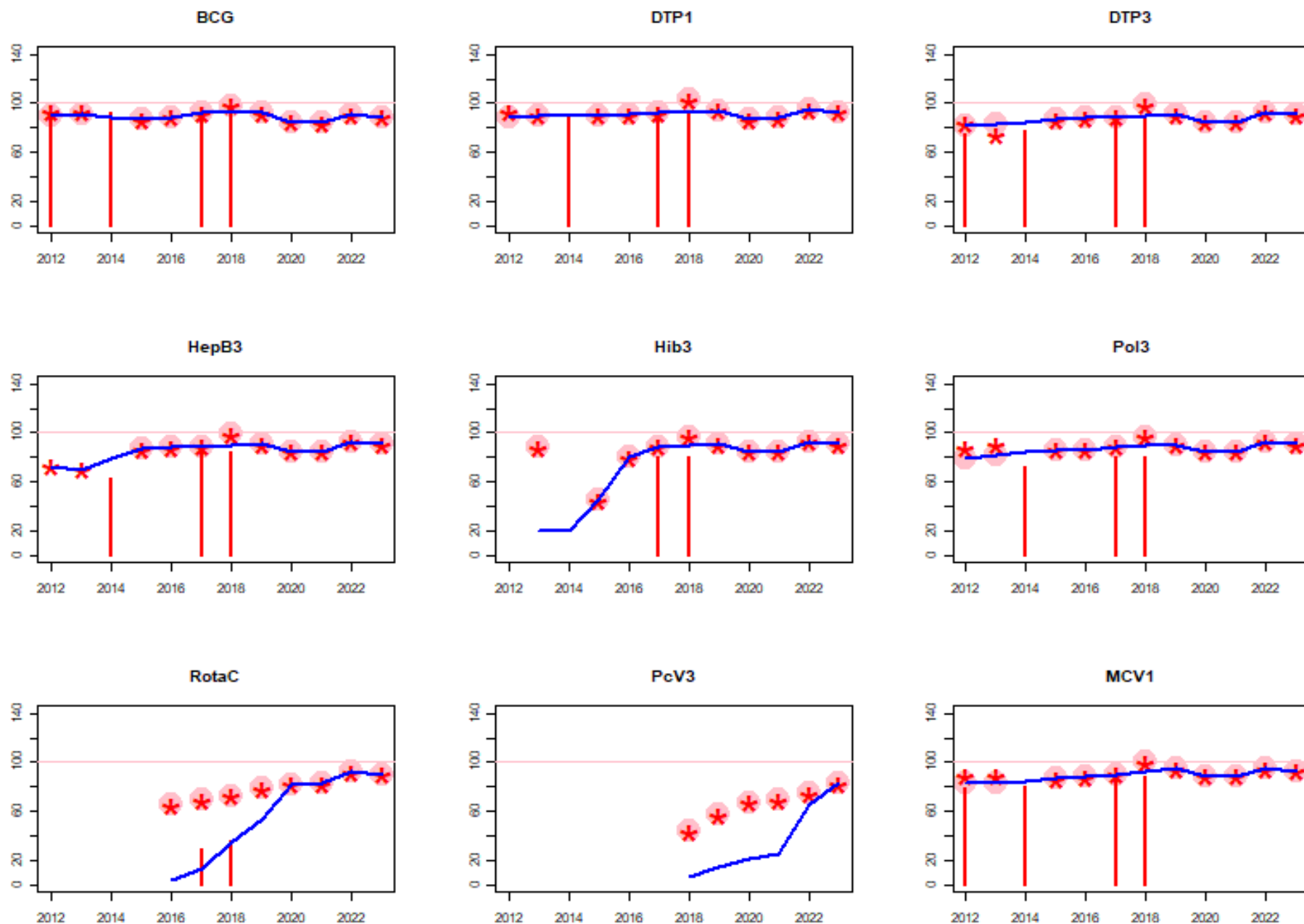




BACKGROUND NOTE: Each year WHO and UNICEF jointly review reports submitted by Member States regarding national immunization coverage, finalized survey reports as well as data from published and grey literature. Based on these data, with due consideration to potential biases and the views of local experts, 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.

*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 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

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 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.

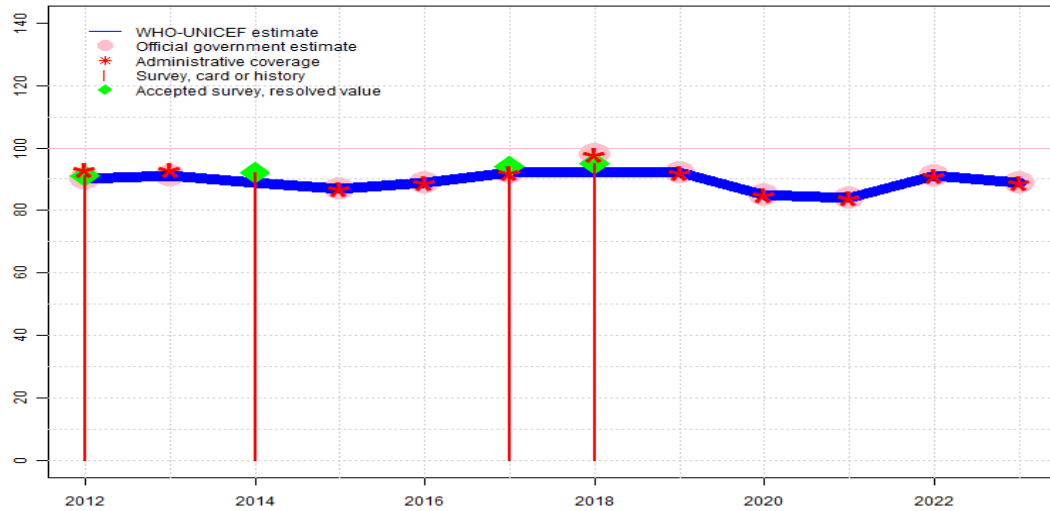
YFV: percentage of surviving infants who received one dose of yellow fever vaccine in countries where YFV is part of the national immunization schedule for children or is recommended in at risk areas; coverage estimates are annualized for the entire cohort of surviving infants.

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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India - BCG

IND - BCG



	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Estimate	90	91	89	87	89	92	92	92	85	84	91	89
Estimate GoC	•••	•••	••	•••	•••	•••	•••	•••	•	•	•	•
Official	90	91	NA	87	89	92	98	92	85	84	91	89
Administrative	93	93	NA	87	89	92	98	92	85	84	91	89
Survey	91	NA	92	NA	NA	94	95	NA	NA	NA	NA	NA

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.

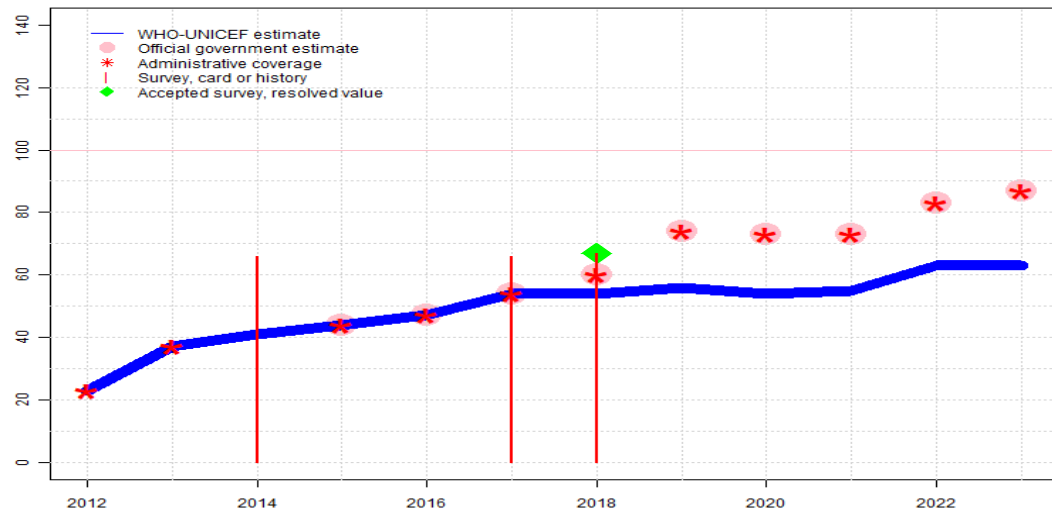
In all cases these estimates should be used with caution and should be assessed in light of the objective for which they are being used.

Description:

- 2023: Estimate informed by reported data. WHO and UNICEF are aware of a planned National Family Health Survey during 2024-2025 and await the final results. Estimate challenged by: D-
- 2022: Estimate informed by reported data. Estimate challenged by: D-
- 2021: Estimate informed by reported data. Estimate challenged by: D-
- 2020: Estimate informed by reported data. Declines in coverage for some vaccine-doses consistent with COVID-19 disruptions. Reports not yet received from all districts. The country notes some delayed reporting related to COVID-19 restrictions or engagements of health workers with COVID-19 containment activities. Estimate challenged by: D-
- 2019: Estimate informed by reported data. GoC=R+ S+ D+
- 2018: Estimate informed by interpolation between reported data supported by survey. Survey evidence of 95 percent based on 1 survey(s). Reported data excluded. Country reports that 2018 data are provisional. Increase in reported coverage is due in part to a 12 percent decline in reported target population compared to the prior year. Although India has undertaken many activities to address low vaccination coverage levels (e.g., Mission Indradhanush, strengthened microplanning and additional monitoring/accountability mechanisms), reported coverage levels are likely an overestimate given results from a 2018 coverage evaluation survey of 190 Intensified Mission Indradhanush districts. While the 2018 survey results suggest improvements in vaccination coverage compared to the 2015-16 National Family Health Survey, numerous districts had estimated coverage levels less than 90 percent for DTP3 and MCV1. GoC=R+ S+ D+
- 2017: Estimate informed by reported data supported by survey. Survey evidence of 94 percent based on 1 survey(s). GoC=R+ S+ D+
- 2016: Estimate informed by reported data. The reporting cycle for the Government of India is from April 1 through March 31. Reported data for April-December 2015 are provisional. Results from the National Family Health Survey 2015-16 Fact Sheet suggests coverage of 93 percent. GoC=R+ S+ D+
- 2015: Estimate informed by reported data. GoC=R+ S+ D+
- 2014: Estimate informed by interpolation between reported data supported by survey. Survey evidence of 92 percent based on 1 survey(s). During May 2015, the Government of India conducted a review of state-level administrative and survey-based coverage data to derive a revised time series of official coverage estimates from 1998 through 2013. WHO and UNICEF are aware of recent state-level surveys conducted in high-risk states as well as on-going routine coverage monitoring. GoC=S+
- 2013: Estimate informed by reported data. GoC=R+ S+ D+
- 2012: Estimate informed by reported data supported by survey. Survey evidence of 91 percent based on 1 survey(s). GoC=R+ S+ D+

India - HepBB

IND - HepBB



	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Estimate	23	37	41	44	47	54	54	56	54	55	63	63
Estimate GoC	••	••	•	••	•	•	•	•	•	•	•	•
Official	NA	NA	NA	44	47	54	60	74	73	73	83	87
Administrative	23	37	NA	44	47	54	60	74	73	73	83	87
Survey	NA	NA	66	NA	NA	66	67	NA	NA	NA	NA	NA

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.

Description:

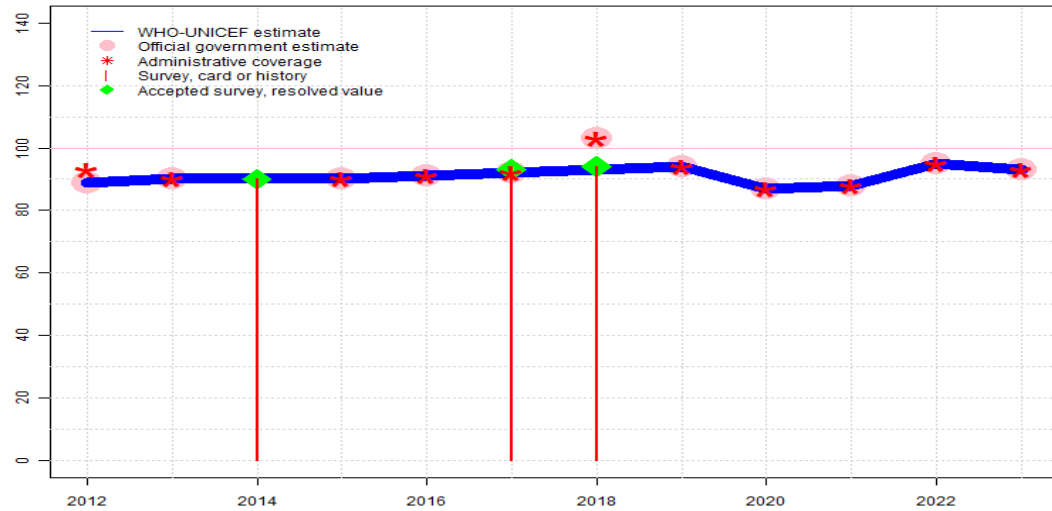
- 2023: Reported coverage of 87 percent reflects that achieved in 72 percent of the target population. Estimate informed by annualized coverage in the national birth cohort. WHO and UNICEF are aware of a planned National Family Health Survey during 2024-2025 and await the final results. Estimate challenged by: R-
- 2022: Reported coverage of 83 percent reflects that achieved in 77 percent of the target population. Estimate informed by annualized coverage in the national birth cohort. Estimate challenged by: R-
- 2021: Reported coverage of 73 percent reflects that achieved in 75 percent of the target population. Estimate is based on annualized coverage in the national target population. Estimate challenged by: R-
- 2020: Reported coverage of 73 percent reflects that achieved in 75 percent of the target population. Estimate is based on annualized coverage in the national target population. Declines in coverage for some vaccine-doses consistent with COVID-19 disruptions. Reports not yet received from all districts. The country notes some delayed reporting related to COVID-19 restrictions or engagements of health workers with COVID-19 containment activities. Estimate challenged by: R-S-
- 2019: Reported coverage of 74 percent reflects that achieved in 76 percent of the target population. Estimate is based on annualized coverage in the national target population. Estimate challenged by: R-S-
- 2018: Estimate is exceptionally based on recalculated coverage using 2017 reported target population for consistency of the time series. Reported data excluded. Country reports that 2018 data are provisional. Increase in reported coverage is due in part to a 12 percent decline in reported target population compared to the prior year. Although India has undertaken many activities to address low vaccination coverage levels (e.g., Mission Indradhanush, strengthened microplanning and additional monitoring/accountability mechanisms), reported coverage levels are likely an overestimate given results from a 2018 coverage evaluation survey of 190 Intensified Mission Indradhanush districts. While the 2018 survey results suggest improvements in vaccination coverage compared to the 2015-16 National Family Health Survey, numerous districts had estimated coverage levels less than 90 percent for DTP3 and MCV1. Estimate challenged by: R-S-
- 2017: Estimate informed by reported data. India National Family Health Survey 2019-21 (NFHS-5) results ignored by working group. Survey may not differentiate from doses given within 24hrs to other doses. Estimate challenged by: S-
- 2016: Estimate informed by reported data. The reporting cycle for the Government of India is from April 1 through March 31. Reported data for April-December 2015 are provisional. Estimate challenged by: S-
- 2015: Estimate informed by reported data. GoC=R+ D+
- 2014: Estimate informed by interpolation between reported data. India National Family Health Survey 2015-16 results ignored by working group. Survey data ignored as data may include those doses given after 24 hours. GoC=No accepted empirical data
- 2013: Estimate informed by reported data. . GoC=R+ D+

India - HepBB

2012: Estimate informed by reported data. GoC=R+ D+

India - DTP1

IND - DTP1



	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Estimate	89	90	90	90	91	92	93	94	87	88	95	93
Estimate GoC	••	••	••	•••	•••	•••	•••	•	•	•	•	•
Official	89	90	NA	90	91	92	103	94	87	88	95	93
Administrative	93	90	NA	90	91	92	103	94	87	88	95	93
Survey	NA	NA	90	NA	NA	93	94	NA	NA	NA	NA	NA

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

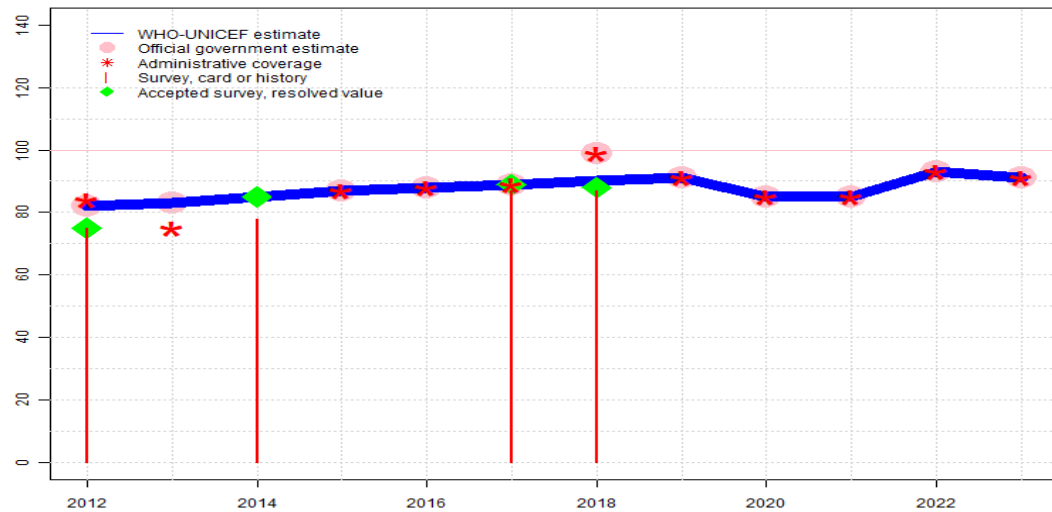
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- 2022: Estimate informed by reported data. Estimate challenged by: D-
- 2021: Estimate informed by reported data. Estimate challenged by: D-
- 2020: Estimate informed by reported data. Declines in coverage for some vaccine-doses consistent with COVID-19 disruptions. Reports not yet received from all districts. The country notes some delayed reporting related to COVID-19 restrictions or engagements of health workers with COVID-19 containment activities. Estimate challenged by: D-
- 2019: Estimate informed by reported data. Estimate challenged by: D-
- 2018: Estimate informed by interpolation between reported data supported by survey. Survey evidence of 94 percent based on 1 survey(s). Reported data excluded. Country reports that 2018 data are provisional. Increase in reported coverage is due in part to a 12 percent decline in reported target population compared to the prior year. Although India has undertaken many activities to address low vaccination coverage levels (e.g., Mission Indradhanush, strengthened microplanning and additional monitoring/accountability mechanisms), reported coverage levels are likely an overestimate given results from a 2018 coverage evaluation survey of 190 Intensified Mission Indradhanush districts. While the 2018 survey results suggest improvements in vaccination coverage compared to the 2015-16 National Family Health Survey, numerous districts had estimated coverage levels less than 90 percent for DTP3 and MCV1. Reported data excluded because 103 percent greater than 100 percent. GoC=R+ S+ D+
- 2017: Estimate informed by reported data supported by survey. Survey evidence of 93 percent based on 1 survey(s). GoC=R+ S+ D+
- 2016: Estimate informed by reported data. The reporting cycle for the Government of India is from April 1 through March 31. Reported data for April-December 2015 are provisional. GoC=R+ S+ D+
- 2015: Estimate informed by reported data. GoC=R+ S+ D+
- 2014: Estimate informed by interpolation between reported data supported by survey. Survey evidence of 90 percent based on 1 survey(s). During 2014, national immunization schedule included DTP as well as DTP-HepB-Hib. DTP-HepB-Hib combination vaccine introduced during 2013. During May 2015, the Government of India conducted a review of state-level administrative and survey-based coverage data to derive a revised time series of official coverage estimates from 1998 through 2013. WHO and UNICEF are aware of recent state-level surveys conducted in high-risk states as well as on-going routine coverage monitoring. GoC=S+
- 2013: Estimate informed by reported data. GoC=Assigned by working group. Estimate is supported by D+
- 2012: Estimate informed by reported data. GoC=Assigned by working group. Estimate is supported by D+

India - DTP3

IND - DTP3



	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Estimate	82	83	85	87	88	89	90	91	85	85	93	91
Estimate GoC	•••	•••	••	•••	•••	•••	•••	•	•	•	•	•
Official	82	83	NA	87	88	89	99	91	85	85	93	91
Administrative	84	75	NA	87	88	89	99	91	85	85	93	91
Survey	75	NA	78	NA	NA	87	87	NA	NA	NA	NA	NA

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.
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- 2021: Estimate informed by reported data. Estimate challenged by: D-
- 2020: Estimate informed by reported data. Declines in coverage for some vaccine-doses consistent with COVID-19 disruptions. Reports not yet received from all districts. The country notes some delayed reporting related to COVID-19 restrictions or engagements of health workers with COVID-19 containment activities. Estimate challenged by: D-
- 2019: Estimate informed by reported data. Estimate challenged by: D-
- 2018: Estimate informed by interpolation between reported data supported by survey. Survey evidence of 88 percent based on 1 survey(s). India National Family Health Survey 2019-21 (NFHS-5) card or history results of 87 percent modified for recall bias to 88 percent based on 1st dose card or history coverage of 94 percent, 1st dose card only coverage of 83 percent and 3rd dose card only coverage of 78 percent. Reported data excluded. Country reports that 2018 data are provisional. Increase in reported coverage is due in part to a 12 percent decline in reported target population compared to the prior year. Although India has undertaken many activities to address low vaccination coverage levels (e.g., Mission Indradhanush, strengthened microplanning and additional monitoring/accountability mechanisms), reported coverage levels are likely an overestimate given results from a 2018 coverage evaluation survey of 190 Intensified Mission Indradhanush districts. While the 2018 survey results suggest improvements in vaccination coverage compared to the 2015-16 National Family Health Survey, numerous districts had estimated coverage levels less than 90 percent for DTP3 and MCV1. GoC=R+ S+ D+
- 2017: Estimate informed by reported data supported by survey. Survey evidence of 89 percent based on 1 survey(s). India National Family Health Survey 2019-21 (NFHS-5) card or history results of 87 percent modified for recall bias to 89 percent based on 1st dose card or history coverage of 93 percent, 1st dose card only coverage of 79 percent and 3rd dose card only coverage of 76 percent. GoC=R+ S+ D+
- 2016: Estimate informed by reported data. The reporting cycle for the Government of India is from April 1 through March 31. Reported data for April-December 2015 are provisional. Results from the National Family Health Survey 2015-16 Fact Sheet suggests coverage of 78 percent. GoC=R+ S+ D+
- 2015: Estimate informed by reported data. GoC=R+ S+ D+
- 2014: Estimate informed by interpolation between reported data supported by survey. Survey evidence of 85 percent based on 1 survey(s). India National Family Health Survey 2015-16 card or history results of 78 percent modified for recall bias to 85 percent based on 1st dose card or history coverage of 90 percent, 1st dose card only coverage of 97 percent and 3rd dose card only coverage of 92 percent. During 2014, national immunization schedule included DTP as well as DTP-HepB-Hib. DTP-HepB-Hib combination vaccine introduced during 2013. During May 2015, the Government of India conducted a review of

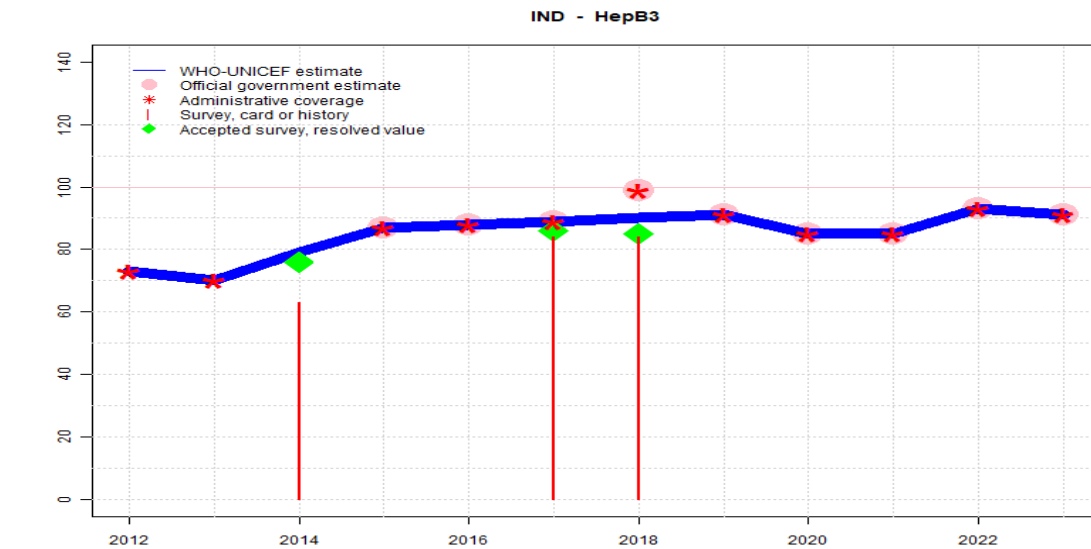
India - DTP3

state-level administrative and survey-based coverage data to derive a revised time series of official coverage estimates from 1998 through 2013. WHO and UNICEF are aware of recent state-level surveys conducted in high-risk states as well as on-going routine coverage monitoring. GoC=S+

2013: Estimate informed by reported data. GoC=R+ S+ D+

2012: Estimate informed by reported data supported by survey. Survey evidence of 75 percent based on 1 survey(s). GoC=R+ S+ D+

India - HepB3



	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Estimate	73	70	79	87	88	89	90	91	85	85	93	91
Estimate GoC	•••	•••	••	•	•	•••	•••	•	•	•	•	•
Official	NA	NA	NA	87	88	89	99	91	85	85	93	91
Administrative	73	70	NA	87	88	89	99	91	85	85	93	91
Survey	NA	NA	63	NA	NA	84	84	NA	NA	NA	NA	NA

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

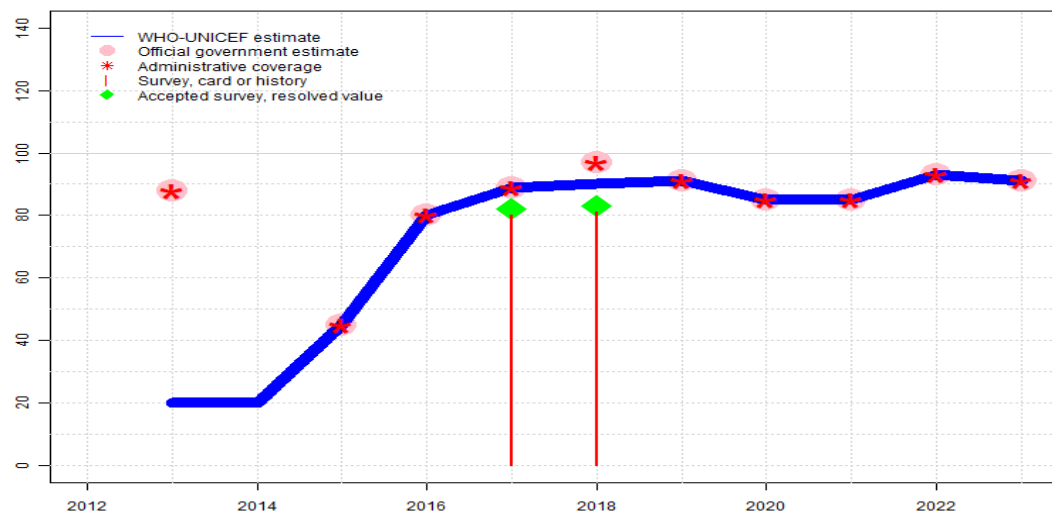
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Description:

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- 2020: Estimate informed by reported data. Declines in coverage for some vaccine-doses consistent with COVID-19 disruptions. Reports not yet received from all districts. The country notes some delayed reporting related to COVID-19 restrictions or engagements of health workers with COVID-19 containment activities. Estimate challenged by: D-
- 2019: Estimate informed by reported data. Estimate challenged by: D-
- 2018: Estimate informed by interpolation between reported data supported by survey. Survey evidence of 85 percent based on 1 survey(s). India National Family Health Survey 2019-21 (NFHS-5) card or history results of 84 percent modified for recall bias to 85 percent based on 1st dose card or history coverage of 92 percent, 1st dose card only coverage of 82 percent and 3rd dose card only coverage of 76 percent. Reported data excluded. Country reports that 2018 data are provisional. Increase in reported coverage is due in part to a 12 percent decline in reported target population compared to the prior year. Although India has undertaken many activities to address low vaccination coverage levels (e.g., Mission Indradhanush, strengthened microplanning and additional monitoring/accountability mechanisms), reported coverage levels are likely an overestimate given results from a 2018 coverage evaluation survey of 190 Intensified Mission Indradhanush districts. While the 2018 survey results suggest improvements in vaccination coverage compared to the 2015-16 National Family Health Survey, numerous districts had estimated coverage levels less than 90 percent for DTP3 and MCV1. GoC=R+ S+ D+
- 2017: Estimate informed by reported data supported by survey. Survey evidence of 86 percent based on 1 survey(s). India National Family Health Survey 2019-21 (NFHS-5) card or history results of 84 percent modified for recall bias to 86 percent based on 1st dose card or history coverage of 90 percent, 1st dose card only coverage of 77 percent and 3rd dose card only coverage of 74 percent. GoC=R+ S+ D+
- 2016: Estimate informed by reported data. The reporting cycle for the Government of India is from April 1 through March 31. Reported data for April-December 2015 are provisional. Estimate challenged by: S-
- 2015: Estimate informed by reported data. Estimate challenged by: S-
- 2014: Estimate informed by interpolation between reported data supported by survey. Survey evidence of 76 percent based on 1 survey(s). India National Family Health Survey 2015-16 card or history results of 63 percent modified for recall bias to 76 percent based on 1st dose card or history coverage of 82 percent, 1st dose card only coverage of 93 percent and 3rd dose card only coverage of 86 percent. National immunization schedule included paediatric monovalent HepB vaccine in addition to DTP-HepB-Hib. GoC=S+
- 2013: Estimate informed by reported data. GoC=R+ S+ D+
- 2012: Estimate informed by reported data. GoC=R+ S+ D+

India - Hib3

IND - Hib3



	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Estimate	NA	20	20	45	80	89	90	91	85	85	93	91
Estimate GoC	NA	•	•	•	•••	•••	•••	•	•	•	•	•
Official	NA	88	NA	45	80	89	97	91	85	85	93	91
Administrative	NA	88	NA	45	80	89	97	91	85	85	93	91
Survey	NA	NA	NA	NA	NA	80	81	NA	NA	NA	NA	NA

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.

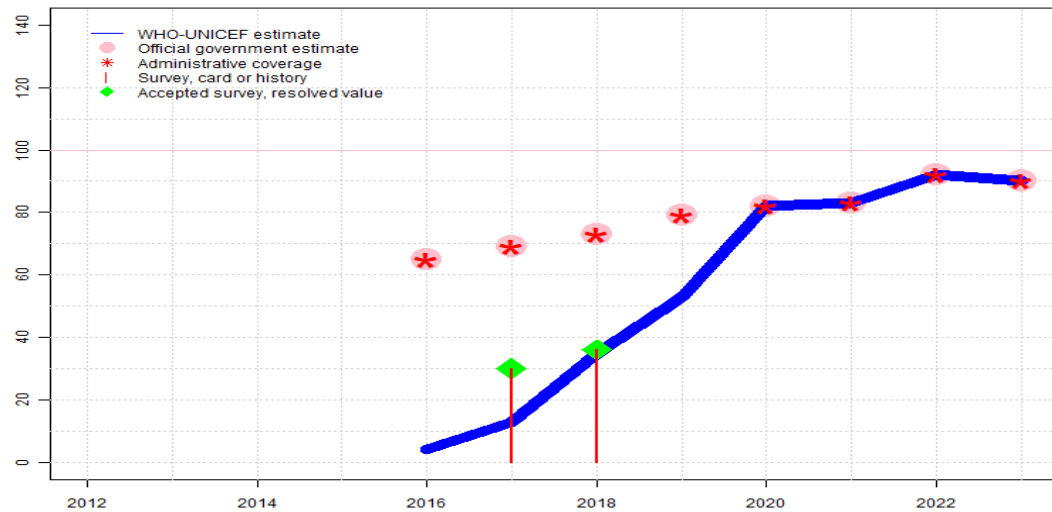
In all cases these estimates should be used with caution and should be assessed in light of the objective for which they are being used.

Description:

- 2023: Estimate informed by reported data. WHO and UNICEF are aware of a planned National Family Health Survey during 2024-2025 and await the final results. Estimate challenged by: D-
- 2022: Estimate informed by reported data. Estimate challenged by: D-
- 2021: Estimate informed by reported data. Estimate challenged by: D-
- 2020: Estimate informed by reported data. Declines in coverage for some vaccine-doses consistent with COVID-19 disruptions. Reports not yet received from all districts. The country notes some delayed reporting related to COVID-19 restrictions or engagements of health workers with COVID-19 containment activities. Estimate challenged by: D-
- 2019: Estimate informed by reported data. Estimate challenged by: D-
- 2018: Estimate informed by interpolation between reported data supported by survey. Survey evidence of 83 percent based on 1 survey(s). India National Family Health Survey 2019-21 (NFHS-5) card or history results of 81 percent modified for recall bias to 83 percent based on 1st dose card or history coverage of 89 percent, 1st dose card only coverage of 80 percent and 3rd dose card only coverage of 75 percent. Reported data excluded. Country reports that 2018 data are provisional. Increase in reported coverage is due in part to a 12 percent decline in reported target population compared to the prior year. Although India has undertaken many activities to address low vaccination coverage levels (e.g., Mission Indradhanush, strengthened microplanning and additional monitoring/accountability mechanisms), reported coverage levels are likely an overestimate given results from a 2018 coverage evaluation survey of 190 Intensified Mission Indradhanush districts. While the 2018 survey results suggest improvements in vaccination coverage compared to the 2015-16 National Family Health Survey, numerous districts had estimated coverage levels less than 90 percent for DTP3 and MCV1. GoC=R+ S+ D+
- 2017: Estimate informed by reported data supported by survey. Survey evidence of 82 percent based on 1 survey(s). India National Family Health Survey 2019-21 (NFHS-5) card or history results of 80 percent modified for recall bias to 82 percent based on 1st dose card or history coverage of 87 percent, 1st dose card only coverage of 75 percent and 3rd dose card only coverage of 71 percent. GoC=R+ S+ D+
- 2016: Estimate informed by reported data. The reporting cycle for the Government of India is from April 1 through March 31. Reported data for April-December 2015 are provisional. Estimate is based on reported data following introduction. GoC=R+ S+ D+
- 2015: Estimate informed by reported data. Estimate challenged by: S-
- 2014: Estimate reflects annualized coverage using the reported number of children vaccinated and the reported target population for third dose of DTP containing vaccine. GoC=No accepted empirical data
- 2013: Estimate reflects annualized coverage using the reported number of children vaccinated and the reported target population for third dose of DTP containing vaccine. Eighty-eight percent coverage achieved in 23 percent of the national target population. Hib vaccine introduced subnationally in two states during 2011 and in eight states during 2013. Reporting began in 2013. Estimate challenged by: R-

India - RotaC

IND - RotaC



Description:

- 2023: Estimate informed by reported data. WHO and UNICEF are aware of a planned National Family Health Survey during 2024-2025 and await the final results. Estimate challenged by: D-
- 2022: Estimate informed by reported data. Estimate challenged by: D-
- 2021: Estimate informed by reported data. Estimate challenged by: D-
- 2020: Reported coverage now reflects that achieved the national target population. Declines in coverage for some vaccine-doses consistent with COVID-19 disruptions. Reports not yet received from all districts. The country notes some delayed reporting related to COVID-19 restrictions or engagements of health workers with COVID-19 containment activities. Estimate challenged by: D-S-
- 2019: Reported coverage of 79 percent reflects that achieved in 67 percent of the target population. Estimate is based on annualized coverage in the national target population. Estimate challenged by: R-S-
- 2018: Reported coverage of 73 percent achieved in forty-one percent of the national target population. Estimate is based on annualized coverage achieved in the national target population. Reported data excluded. Country reports that 2018 data are provisional. Increase in reported coverage is due in part to a 12 percent decline in reported target population compared to the prior year. Although India has undertaken many activities to address low vaccination coverage levels (e.g., Mission Indradhanush, strengthened microplanning and additional monitoring/accountability mechanisms), reported coverage levels are likely an overestimate given results from a 2018 coverage evaluation survey of 190 Intensified Mission Indradhanush districts. While the 2018 survey results suggest improvements in vaccination coverage compared to the 2015-16 National Family Health Survey, numerous districts had estimated coverage levels less than 90 percent for DTP3 and MCV1. Estimate challenged by: R-
- 2017: Programme reports 61 percent coverage achieved in 21 percent of the national target population. Estimate is based on annualized coverage achieved in the national target population. Estimate challenged by: R-S-
- 2016: Rotavirus vaccine was introduced during 2016 through a phased approach in four states. Programme reports 65 percent coverage achieved in six percent of the national target population. Estimate is based on annualized coverage achieved in the national target population. The reporting cycle for the Government of India is from April 1 through March 31. Reported data for April-December 2015 are provisional. Estimate challenged by: R-S-

	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Estimate	NA	NA	NA	NA	4	13	35	53	82	83	92	90
Estimate GoC	NA	NA	NA	NA	•	•	•	•	•	•	•	•
Official	NA	NA	NA	NA	65	69	73	79	82	83	92	90
Administrative	NA	NA	NA	NA	65	69	73	79	82	83	92	90
Survey	NA	NA	NA	NA	NA	30	36	NA	NA	NA	NA	NA

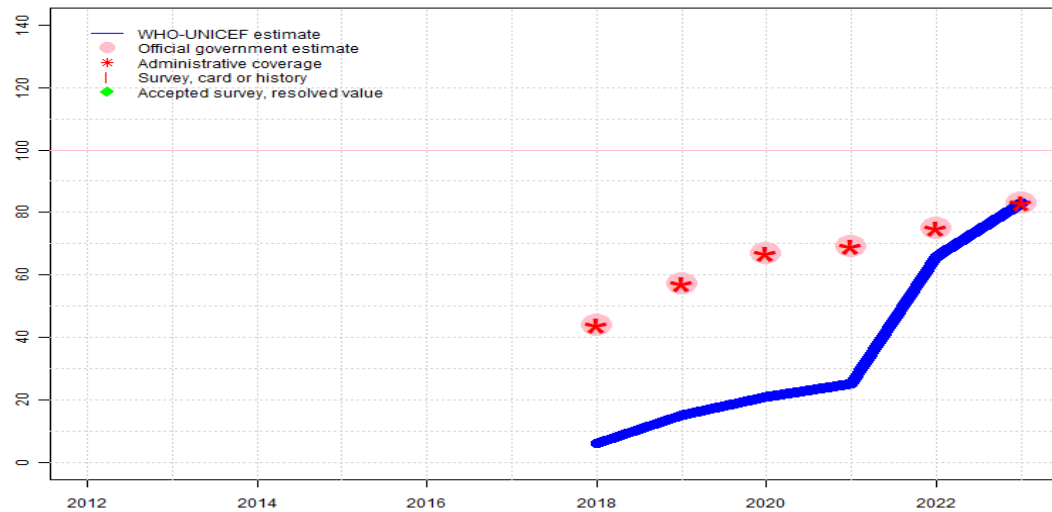
The WHO and UNICEF estimates of national immunization coverage (wuenic) are based on data and information that are of varying, and, in some instances, unknown quality. Beginning with the 2011 revision we describe the grade of confidence (GoC) we have in these estimates. As there is no underlying probability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

India - PcV3

IND - PcV3



	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Estimate	NA	NA	NA	NA	NA	NA	6	15	21	25	66	83
Estimate GoC	NA	NA	NA	NA	NA	NA	•	•	•	•	•	•
Official	NA	NA	NA	NA	NA	NA	44	57	67	69	75	83
Administrative	NA	NA	NA	NA	NA	NA	44	57	67	69	75	83
Survey	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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.

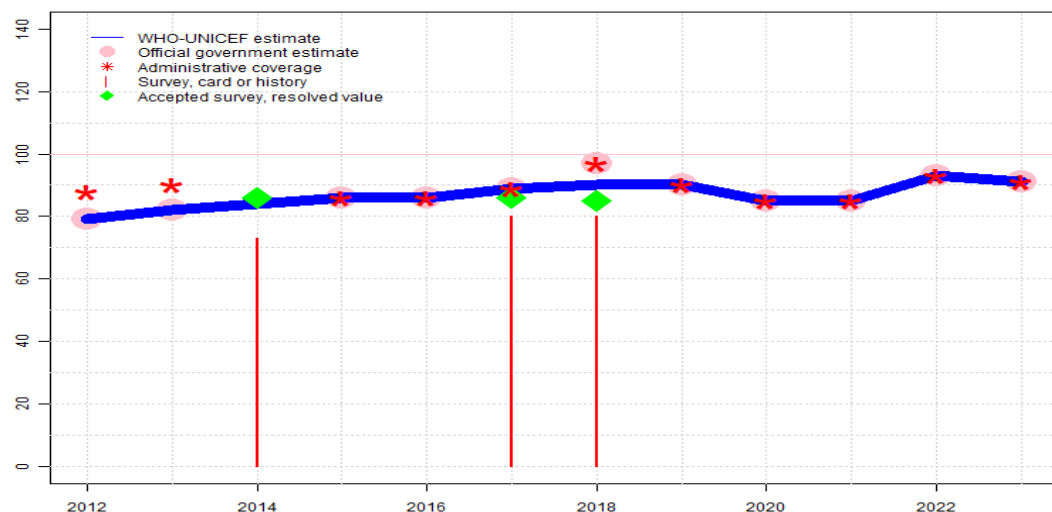
In all cases these estimates should be used with caution and should be assessed in light of the objective for which they are being used.

Description:

- 2023: Estimate informed by reported data. WHO and UNICEF are aware of a planned National Family Health Survey during 2024-2025 and await the final results. Estimate challenged by: D-
- 2022: Reported coverage of 75 percent reflects that achieved in 88 percent of the target population. Estimate informed by annualized coverage in the national cohort of surviving infants. Estimate challenged by: D-R-
- 2021: Reported coverage of 69 percent reflects that achieved in 36 percent of the target population. Estimate is based on annualized coverage in the national target population. Estimate challenged by: R-
- 2020: Reported coverage of 67 percent reflects that achieved in 31 percent of the target population. Estimate is based on annualized coverage in the national target population. Declines in coverage for some vaccine-doses consistent with COVID-19 disruptions. Reports not yet received from all districts. The country notes some delayed reporting related to COVID-19 restrictions or engagements of health workers with COVID-19 containment activities. Estimate challenged by: R-
- 2019: Reported coverage of 57 percent reflects that achieved in 26 percent of the target population. Estimate is based on annualized coverage in the national target population. Estimate challenged by: R-
- 2018: PCV partially introduced in April 2017. Reporting started in 2018. Coverage of 44 percent achieved in thirteen percent of the national target population. Estimate is based on annualized coverage achieved in the national target population. Reported data excluded. Country reports that 2018 data are provisional. Increase in reported coverage is due in part to a 12 percent decline in reported target population compared to the prior year. Although India has undertaken many activities to address low vaccination coverage levels (e.g., Mission Indradhanush, strengthened microplanning and additional monitoring/accountability mechanisms), reported coverage levels are likely an overestimate given results from a 2018 coverage evaluation survey of 190 Intensified Mission Indradhanush districts. While the 2018 survey results suggest improvements in vaccination coverage compared to the 2015-16 National Family Health Survey, numerous districts had estimated coverage levels less than 90 percent for DTP3 and MCV1. Estimate challenged by: R-

India - Pol3

IND - Pol3



	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Estimate	79	82	84	86	86	89	90	90	85	85	93	91
Estimate GoC	•••	•••	••	•••	•••	•••	•••	•	•	•	•	•
Official	79	82	NA	86	86	89	97	90	85	85	93	91
Administrative	88	90	NA	86	86	89	97	90	85	85	93	91
Survey	NA	NA	73	NA	NA	80	80	NA	NA	NA	NA	NA

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.

Description:

- 2023: Estimate informed by reported data. WHO and UNICEF are aware of a planned National Family Health Survey during 2024-2025 and await the final results. Estimate challenged by: D-
- 2022: Estimate informed by reported data. Estimate challenged by: D-
- 2021: Estimate informed by reported data. Estimate challenged by: D-
- 2020: Estimate informed by reported data. Declines in coverage for some vaccine-doses consistent with COVID-19 disruptions. Reports not yet received from all districts. The country notes some delayed reporting related to COVID-19 restrictions or engagements of health workers with COVID-19 containment activities. Estimate challenged by: D-
- 2019: Estimate informed by reported data. Estimate challenged by: D-
- 2018: Estimate informed by interpolation between reported data supported by survey. Survey evidence of 85 percent based on 1 survey(s). India National Family Health Survey 2019-21 (NFHS-5) card or history results of 80 percent modified for recall bias to 85 percent based on 1st dose card or history coverage of 92 percent, 1st dose card only coverage of 83 percent and 3rd dose card only coverage of 77 percent. Reported data excluded. Country reports that 2018 data are provisional. Increase in reported coverage is due in part to a 12 percent decline in reported target population compared to the prior year. Although India has undertaken many activities to address low vaccination coverage levels (e.g., Mission Indradhanush, strengthened microplanning and additional monitoring/accountability mechanisms), reported coverage levels are likely an overestimate given results from a 2018 coverage evaluation survey of 190 Intensified Mission Indradhanush districts. While the 2018 survey results suggest improvements in vaccination coverage compared to the 2015-16 National Family Health Survey, numerous districts had estimated coverage levels less than 90 percent for DTP3 and MCV1. GoC=R+ S+ D+
- 2017: Estimate informed by reported data supported by survey. Survey evidence of 86 percent based on 1 survey(s). India National Family Health Survey 2019-21 (NFHS-5) card or history results of 80 percent modified for recall bias to 86 percent based on 1st dose card or history coverage of 91 percent, 1st dose card only coverage of 79 percent and 3rd dose card only coverage of 75 percent. GoC=R+ S+ D+
- 2016: Estimate informed by reported data. The reporting cycle for the Government of India is from April 1 through March 31. Reported data for April-December 2015 are provisional. Results from the National Family Health Survey 2015-16 Fact Sheet suggests coverage of 73 percent. GoC=R+ S+ D+
- 2015: Estimate informed by reported data. GoC=R+ S+ D+
- 2014: Estimate informed by interpolation between reported data supported by survey. Survey evidence of 86 percent based on 1 survey(s). India National Family Health Survey 2015-16 card or history results of 73 percent modified for recall bias to 86 percent based on 1st dose card or history coverage of 91 percent, 1st dose card only coverage of 98 percent and 3rd dose card only coverage of 93 percent. During May 2015, the Government of India conducted a review of state-level administrative and survey-based coverage data to derive a revised time series of official coverage estimates from 1998 through 2013. WHO

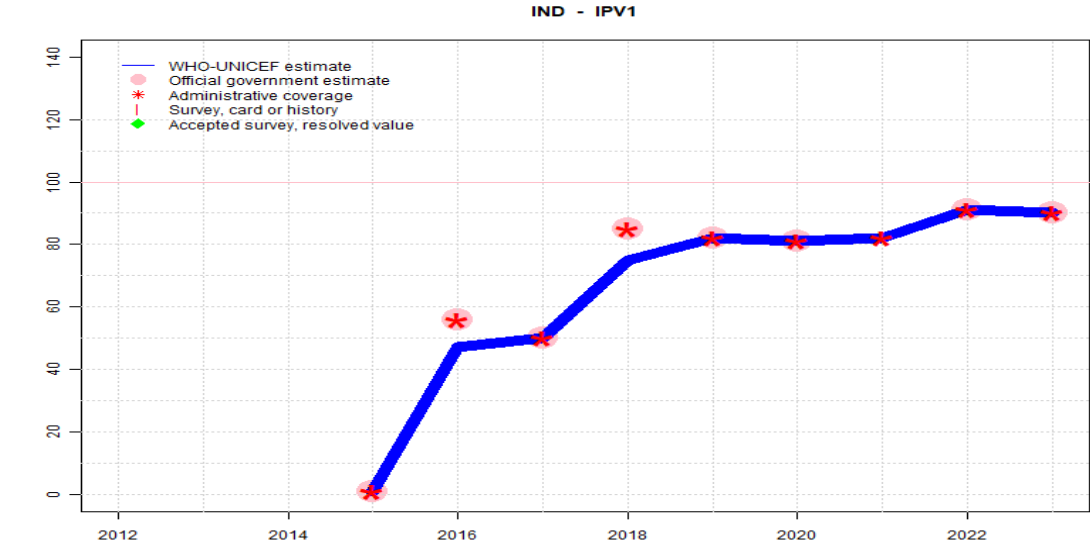
and UNICEF are aware of recent state-level surveys conducted in high-risk states as well

as on-going routine coverage monitoring. GoC=S+

2013: Estimate informed by reported data. GoC=R+ S+ D+

2012: Estimate informed by reported data. GoC=R+ S+ D+

India - IPV1



	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Estimate	NA	NA	NA	1	47	50	75	82	81	82	91	90
Estimate GoC	NA	NA	NA	••	•	••	•	•	•	••	•	•
Official	NA	NA	NA	1	56	50	85	82	81	NA	91	90
Administrative	NA	NA	NA	1	56	50	85	82	81	82	91	90
Survey	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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.

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).

2023: Estimate informed by reported data. WHO and UNICEF are aware of a planned National Family Health Survey during 2024-2025 and await the final results. Reported data reflect the second dose of fractional IPV. Estimate challenged by: D-

2022: Estimate informed by reported data. Reported data reflect the second dose of fractional IPV. Estimate challenged by: D-

2021: Estimate informed by reported administrative data. Reported data reflect the second dose of fractional IPV. GoC=R+

2020: Estimate informed by reported data. Declines in coverage for some vaccine-doses consistent with COVID-19 disruptions. Reports not yet received from all districts. The country notes some delayed reporting related to COVID-19 restrictions or engagements of health workers with COVID-19 containment activities. Reported data reflect the second dose of fractional IPV. Estimate challenged by: D-

2019: Estimate informed by reported data. Reported data reflect the second dose of fractional IPV. Estimate challenged by: D-

2018: Reported data reflect the second dose of fractional IPV. Fractional IPV doses were expanded to all states by the 2nd quarter of 2017. Prior to this time, certain states were administering both full and fractional IPV doses. Estimate is based on estimated DTP3 coverage adjusted for the difference in reported doses administered for DTP3 and IPV. Reported data excluded. Country reports that 2018 data are provisional. Increase in reported coverage is due in part to a 12 percent decline in reported target population compared to the prior year. Although India has undertaken many activities to address low vaccination coverage levels (e.g., Mission Indradhanush, strengthened microplanning and additional monitoring/accountability mechanisms), reported coverage levels are likely an overestimate given results from a 2018 coverage evaluation survey of 190 Intensified Mission Indradhanush districts. While the 2018 survey results suggest improvements in vaccination coverage compared to the 2015-16 National Family Health Survey, numerous districts had estimated coverage levels less than 90 percent for DTP3 and MCV1. Estimate challenged by: R-

2017: Estimate informed by reported data. . GoC=R+ D+

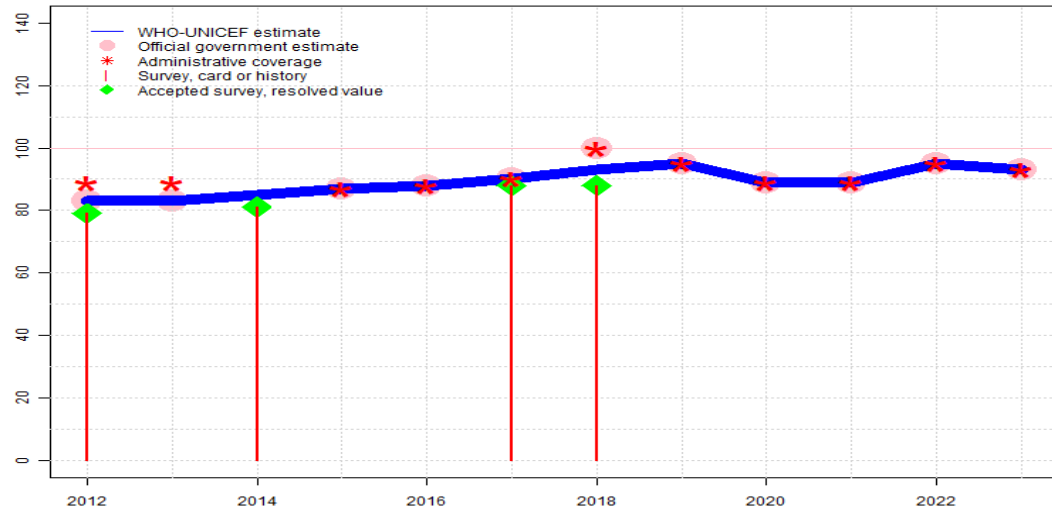
2016: Programme reports 56 percent coverage achieved in 85 percent of the national target population. Estimate is based on annualized coverage in the national target population. Programme is delivering fractional doses of IPV. The reporting cycle for the Government of India is from April 1 through March 31. Reported data for April-December 2015 are provisional. Estimate challenged by: R-

India - IPV1

2015: Estimate informed by reported data. Inactivated polio vaccine introduced in November
2015. GoC=R+ D+

India - MCV1

IND - MCV1



	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Estimate	83	83	85	87	88	90	93	95	89	89	95	93
Estimate GoC	•••	•••	••	•••	•••	•••	•••	•	•	•	•	•
Official	83	83	NA	87	88	90	100	95	89	89	95	93
Administrative	89	89	NA	87	88	90	100	95	89	89	95	93
Survey	79	NA	81	NA	NA	88	88	NA	NA	NA	NA	NA

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.

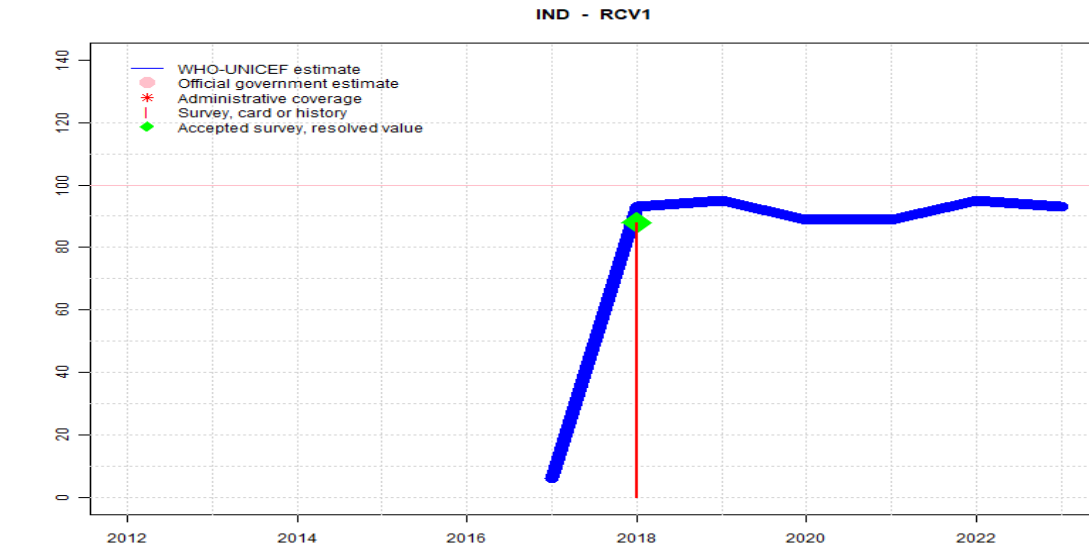
- Estimate is supported by reported data [R+], coverage recalculated with an independent denominator from the World Population Prospects: 2022 revision from the UN Population Division (D+), and at least one supporting survey within 2 years [S+]. While well supported, the estimate still carries a risk 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.

Description:

- 2023: Estimate informed by reported data. WHO and UNICEF are aware of a planned National Family Health Survey during 2024-2025 and await the final results. Estimate challenged by: D-
- 2022: Estimate informed by reported data. Estimate challenged by: D-
- 2021: Estimate informed by reported data. Estimate challenged by: D-
- 2020: Estimate informed by reported data. Declines in coverage for some vaccine-doses consistent with COVID-19 disruptions. Reports not yet received from all districts. The country notes some delayed reporting related to COVID-19 restrictions or engagements of health workers with COVID-19 containment activities. Estimate challenged by: D-
- 2019: Estimate informed by reported data. Estimate challenged by: D-
- 2018: Estimate informed by interpolation between reported data supported by survey. Survey evidence of 88 percent based on 1 survey(s). Reported data excluded. Country reports that 2018 data are provisional. Increase in reported coverage is due in part to a 12 percent decline in reported target population compared to the prior year. Although India has undertaken many activities to address low vaccination coverage levels (e.g., Mission Indradhanush, strengthened microplanning and additional monitoring/accountability mechanisms), reported coverage levels are likely an overestimate given results from a 2018 coverage evaluation survey of 190 Intensified Mission Indradhanush districts. While the 2018 survey results suggest improvements in vaccination coverage compared to the 2015-16 National Family Health Survey, numerous districts had estimated coverage levels less than 90 percent for DTP3 and MCV1. GoC=R+ S+ D+
- 2017: Estimate informed by reported data supported by survey. Survey evidence of 88 percent based on 1 survey(s). GoC=R+ S+ D+
- 2016: Estimate informed by reported data. The reporting cycle for the Government of India is from April 1 through March 31. Reported data for April-December 2015 are provisional. Results from the National Family Health Survey 2015-16 Fact Sheet suggests coverage of 81 percent. GoC=R+ S+ D+
- 2015: Estimate informed by reported data. GoC=R+ S+ D+
- 2014: Estimate informed by interpolation between reported data supported by survey. Survey evidence of 81 percent based on 1 survey(s). During May 2015, the Government of India conducted a review of state-level administrative and survey-based coverage data to derive a revised time series of official coverage estimates from 1998 through 2013. WHO and UNICEF are aware of recent state-level surveys conducted in high-risk states as well as on-going routine coverage monitoring. GoC=S+
- 2013: Estimate informed by reported data. GoC=R+ S+ D+
- 2012: Estimate informed by reported data supported by survey. Survey evidence of 79 percent based on 1 survey(s). GoC=R+ S+ D+

India - RCV1



	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Estimate	NA	NA	NA	NA	NA	6	93	95	89	89	95	93
Estimate GoC	NA	NA	NA	NA	NA	•••	•••	•	•	•	•	•
Official	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Administrative	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Survey	NA	NA	NA	NA	NA	NA	88	NA	NA	NA	NA	NA

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.

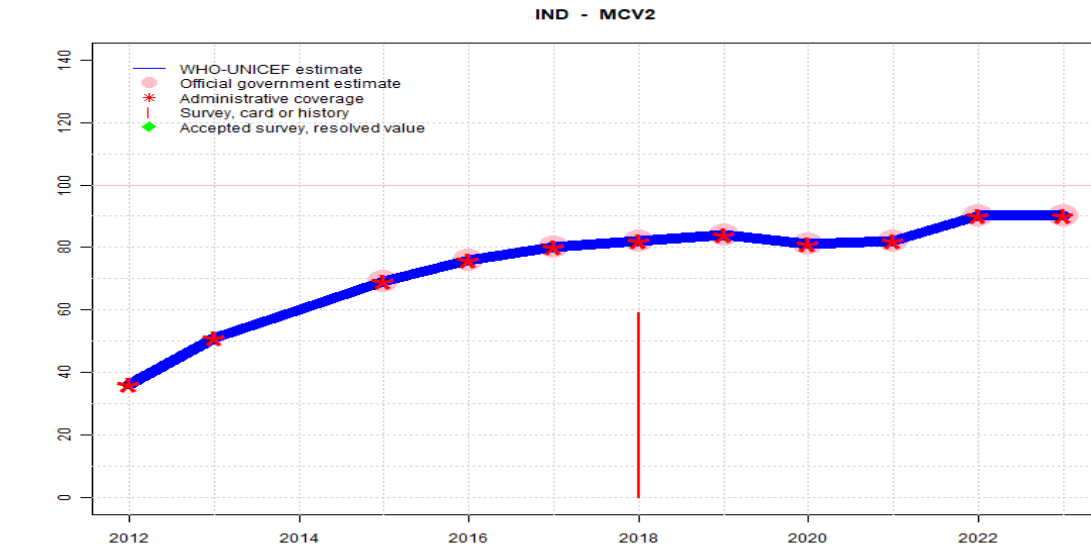
In all cases these estimates should be used with caution and should be assessed in light of the objective for which they are being used.

Description:

For this revision, coverage estimates for the first dose of rubella containing vaccine are based on WHO and UNICEF estimates of coverage of measles containing vaccine. Nationally reported coverage of rubella containing vaccine is not taken into consideration nor are they represented in the the accompanying graph and data table.

- 2023: Estimate based on estimated MCV1. WHO and UNICEF are aware of a planned National Family Health Survey during 2024-2025 and await the final results. 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. Declines in coverage for some vaccine-doses consistent with COVID-19 disruptions. Reports not yet received from all districts. The country notes some delayed reporting related to COVID-19 restrictions or engagements of health workers with COVID-19 containment activities. Estimate challenged by: D-
- 2019: Estimate based on estimated MCV1. Estimate challenged by: D-
- 2018: Estimate based on estimated MCV1. GoC=R+ S+ D+
- 2017: Rubella-containing vaccine was introduced in 2017 as measles-rubella. Programme reports 77 percent coverage achieved in eight percent of the national target population. Estimate is based on annualized coverage achieved in the national target population. GoC=R+ S+ D+

India - MCV2



	2012	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023
Estimate	36	51	60	69	76	80	82	84	81	82	90	90
Estimate GoC	••	••	•	••	••	••	••	••	•	•	•	•
Official	NA	NA	NA	69	76	80	82	84	81	82	90	90
Administrative	36	51	NA	69	76	80	82	84	81	82	90	90
Survey	NA	NA	NA	NA	NA	NA	59	NA	NA	NA	NA	NA

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.

Description:

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

2023: Estimate informed by reported data. WHO and UNICEF are aware of a planned National Family Health Survey during 2024-2025 and await the final results. Estimate challenged by: D-

2022: Estimate informed by reported data. Estimate challenged by: D-

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

2020: Estimate informed by reported data. Declines in coverage for some vaccine-doses consistent with COVID-19 disruptions. Reports not yet received from all districts. The country notes some delayed reporting related to COVID-19 restrictions or engagements of health workers with COVID-19 containment activities. Estimate challenged by: D-

2019: Estimate informed by reported data. GoC=R+ D+

2018: Estimate informed by interpolation between reported data. India National Family Health Survey 2019-21 (NFHS-5) results ignored by working group. Survey results are inconsistent with those for other antigens. Reported data excluded. Country reports that 2018 data are provisional. Increase in reported coverage is due in part to a 12 percent decline in reported target population compared to the prior year. Although India has undertaken many activities to address low vaccination coverage levels (e.g., Mission Indradhanush, strengthened microplanning and additional monitoring/accountability mechanisms), reported coverage levels are likely an overestimate given results from a 2018 coverage evaluation survey of 190 Intensified Mission Indradhanush districts. While the 2018 survey results suggest improvements in vaccination coverage compared to the 2015-16 National Family Health Survey, numerous districts had estimated coverage levels less than 90 percent for DTP3 and MCV1. GoC=R+ D+

2017: Estimate informed by reported data. GoC=R+ D+

2016: Estimate informed by reported data. The reporting cycle for the Government of India is from April 1 through March 31. Reported data for April-December 2015 are provisional. GoC=R+ D+

2015: Estimate informed by reported data. GoC=R+ D+

2014: Estimate informed by interpolation between reported data. GoC=No accepted empirical data

2013: Estimate informed by reported administrative data. . GoC=R+ D+

2012: Estimate informed by reported administrative data. GoC=R+ D+

India - 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 1 or 2 years prior to the survey field work.

2018 India National Family Health Survey 2019-21 (NFHS-5)

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	C or H <12 months	94.8	12-23 m	43247	86
BCG	Card	84.2	12-23 m	37085	86
BCG	Card or History	95.2	12-23 m	43247	86
BCG	History	11	12-23 m	6161	86
DTP1	C or H <12 months	74.3	12-23 m	43247	86
DTP1	Card	83.3	12-23 m	37085	86
DTP1	Card or History	93.6	12-23 m	43247	86
DTP1	History	10.4	12-23 m	6161	86
DTP3	C or H <12 months	45.6	12-23 m	43247	86
DTP3	Card	78.3	12-23 m	37085	86
DTP3	Card or History	86.7	12-23 m	43247	86
DTP3	History	8.4	12-23 m	6161	86
HepB1	C or H <12 months	90.9	12-23 m	43247	86
HepB1	Card	81.9	12-23 m	37085	86
HepB1	Card or History	91.5	12-23 m	43247	86
HepB1	History	9.7	12-23 m	6161	86
HepB3	C or H <12 months	81.4	12-23 m	43247	86
HepB3	Card	76.5	12-23 m	37085	86
HepB3	Card or History	83.9	12-23 m	43247	86
HepB3	History	7.4	12-23 m	6161	86
HepBB	C or H <12 months	66.1	12-23 m	43247	86
HepBB	Card	61.3	12-23 m	37085	86
HepBB	Card or History	67.4	12-23 m	43247	86
HepBB	History	6.1	12-23 m	6161	86

Hib1	C or H <12 months	88.2	12-23 m	43247	86
Hib1	Card	79.6	12-23 m	37085	86
Hib1	Card or History	88.7	12-23 m	43247	86
Hib1	History	9.1	12-23 m	6161	86
Hib3	C or H <12 months	78.7	12-23 m	43247	86
Hib3	Card	74.6	12-23 m	37085	86
Hib3	Card or History	81.1	12-23 m	43247	86
Hib3	History	6.5	12-23 m	6161	86
MCV1	C or H <12 months	78.1	12-23 m	43247	86
MCV1	Card	79.9	12-23 m	37085	86
MCV1	Card or History	87.9	12-23 m	43247	86
MCV1	History	8	12-23 m	6161	86
MCV2	C or H <12 months	55.9	24-35 m	43916	-
MCV2	Card	51.7	24-35 m	35827	-
MCV2	Card or History	58.6	24-35 m	43916	-
MCV2	History	6.9	24-35 m	8088	-
Pol1	C or H <12 months	91.8	12-23 m	43247	86
Pol1	Card	82.6	12-23 m	37085	86
Pol1	Card or History	92.4	12-23 m	43247	86
Pol1	History	9.7	12-23 m	6161	86
Pol3	C or H <12 months	78.6	12-23 m	43247	86
Pol3	Card	77.2	12-23 m	37085	86
Pol3	Card or History	80.5	12-23 m	43247	86
Pol3	History	3.3	12-23 m	6161	86
RotaC	C or H <12 months	35.3	12-23 m	43247	86
RotaC	Card	33.9	12-23 m	37085	86
RotaC	Card or History	36.4	12-23 m	43247	86
RotaC	History	2.5	12-23 m	6161	86

2017 India National Family Health Survey 2019-21 (NFHS-5)

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	C or H <12 months	93.3	24-35 m	43916	-
BCG	Card	80	24-35 m	35827	-
BCG	Card or History	94.4	24-35 m	43916	-
BCG	History	14.4	24-35 m	8088	-
DTP1	C or H <12 months	72.5	24-35 m	43916	-
DTP1	Card	79.2	24-35 m	35827	-
DTP1	Card or History	93	24-35 m	43916	-

India - survey details

DTP1	History	13.7	24-35 m	8088	-
DTP3	C or H <12 months	44.6	24-35 m	43916	-
DTP3	Card	75.8	24-35 m	35827	-
DTP3	Card or History	87.4	24-35 m	43916	-
DTP3	History	11.6	24-35 m	8088	-
HepB1	C or H <12 months	88.4	24-35 m	43916	-
HepB1	Card	77.3	24-35 m	35827	-
HepB1	Card or History	90.1	24-35 m	43916	-
HepB1	History	12.8	24-35 m	8088	-
HepB3	C or H <12 months	79.4	24-35 m	43916	-
HepB3	Card	73.5	24-35 m	35827	-
HepB3	Card or History	83.8	24-35 m	43916	-
HepB3	History	10.3	24-35 m	8088	-
HepBB	C or H <12 months	64	24-35 m	43916	-
HepBB	Card	57.5	24-35 m	35827	-
HepBB	Card or History	65.8	24-35 m	43916	-
HepBB	History	8.2	24-35 m	8088	-
Hib1	C or H <12 months	85.4	24-35 m	43916	-
Hib1	Card	74.8	24-35 m	35827	-
Hib1	Card or History	86.9	24-35 m	43916	-
Hib1	History	12.1	24-35 m	8088	-
Hib3	C or H <12 months	76.4	24-35 m	43916	-
Hib3	Card	71.4	24-35 m	35827	-
Hib3	Card or History	80.5	24-35 m	43916	-
Hib3	History	9.1	24-35 m	8088	-
MCV1	C or H <12 months	75.7	24-35 m	43916	-
MCV1	Card	77.3	24-35 m	35827	-
MCV1	Card or History	88.5	24-35 m	43916	-
MCV1	History	11.2	24-35 m	8088	-
Pol1	C or H <12 months	89.9	24-35 m	43916	-
Pol1	Card	78.6	24-35 m	35827	-
Pol1	Card or History	91.4	24-35 m	43916	-
Pol1	History	12.7	24-35 m	8088	-
Pol3	C or H <12 months	76.1	24-35 m	43916	-
Pol3	Card	74.6	24-35 m	35827	-
Pol3	Card or History	79.5	24-35 m	43916	-
Pol3	History	4.9	24-35 m	8088	-
RotaC	C or H <12 months	28.3	24-35 m	43916	-
RotaC	Card	26.2	24-35 m	35827	-
RotaC	Card or History	29.9	24-35 m	43916	-

RotaC History 3.7 24-35 m 8088 -

2014 India National Family Health Survey 2015-16

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	C or H <12 months	91.4	12-23 m	47839	63
BCG	Card	98.4	12-23 m	30240	63
BCG	Card or History	91.9	12-23 m	47839	63
BCG	History	80.7	12-23 m	17599	63
DTP1	C or H <12 months	88.6	12-23 m	47839	63
DTP1	Card	97.4	12-23 m	30240	63
DTP1	Card or History	89.5	12-23 m	47839	63
DTP1	History	75.9	12-23 m	17599	63
DTP3	C or H <12 months	75.9	12-23 m	47839	63
DTP3	Card	92.2	12-23 m	30240	63
DTP3	Card or History	78.4	12-23 m	47839	63
DTP3	History	54.6	12-23 m	17599	63
HepB1	C or H <12 months	81.8	12-23 m	47839	63
HepB1	Card	92.6	12-23 m	30240	63
HepB1	Card or History	82.5	12-23 m	47839	63
HepB1	History	65	12-23 m	17599	63
HepB3	C or H <12 months	60.7	12-23 m	47839	63
HepB3	Card	86.2	12-23 m	30240	63
HepB3	Card or History	62.7	12-23 m	47839	63
HepB3	History	22.5	12-23 m	17599	63
HepBB	C or H <12 months	64.6	12-23 m	47839	63
HepBB	Card	74.3	12-23 m	30240	63
HepBB	Card or History	65.6	12-23 m	47839	63
HepBB	History	50.5	12-23 m	17599	63
MCV1	C or H <12 months	71.3	12-23 m	47839	63
MCV1	Card	87.9	12-23 m	30240	63
MCV1	Card or History	81.1	12-23 m	47839	63
MCV1	History	69.4	12-23 m	17599	63
Pol1	C or H <12 months	90.2	12-23 m	47839	63
Pol1	Card	98.3	12-23 m	30240	63
Pol1	Card or History	90.8	12-23 m	47839	63
Pol1	History	77.9	12-23 m	17599	63
Pol3	C or H <12 months	70.7	12-23 m	47839	63
Pol3	Card	92.6	12-23 m	30240	63

India - survey details

Pol3	Card or History	72.8	12-23 m	47839	63
Pol3	History	38.8	12-23 m	17599	63

2012 Rapid Survey on Children, 2013-2014

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	Card or History	91.1	12-23 m	17311	84
DTP3	Card or History	74.8	12-23 m	17311	84
MCV1	Card or History	78.9	12-23 m	17311	84

2008 India 2009 Coverage Evaluation Survey

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	Card or History	86.9	12-23 m	22604	52
DTP1	Card or History	82.6	12-23 m	22604	52
DTP3	Card or History	71.5	12-23 m	22604	52
HepB1	Card or History	70.7	12-23 m	22604	52
HepB3	Card or History	58.9	12-23 m	22604	52
MCV1	Card or History	74.1	12-23 m	22604	52
Pol3	Card or History	70.4	12-23 m	22604	52

2007 India District-Level Household and Facility Survey 2007-2008 (DHLS-3)

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	Card or History	86.7	12-23 m	65628	43
DTP1	Card or History	82.3	12-23 m	65628	43
DTP3	Card or History	63.4	12-23 m	65628	43
MCV1	Card or History	69.1	12-23 m	65628	43
Pol1	Card or History	93.2	12-23 m	65628	43
Pol3	Card or History	65.6	12-23 m	65628	43

2006 India Coverage Evaluation Survey 2006

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	Card or History	87.4	12-23 m	22888	71
DTP1	Card or History	83.4	12-23 m	22888	71
DTP3	Card or History	68.4	12-23 m	22888	71
MCV1	Card or History	70.9	12-23 m	22888	71
Pol1	Card or History	81.8	12-23 m	22888	71
Pol3	Card or History	67.5	12-23 m	22888	71

2005 India National Family Health Survey (NFHS-3) 2005-2006

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	C or H <12 months	75.6	12-23 m	10419	38
BCG	Card	97.2	12-23 m	10419	38
BCG	Card or History	78.1	12-23 m	10419	38
BCG	History	66.7	12-23 m	10419	38
DTP1	C or H <12 months	72.8	12-23 m	10419	38
DTP1	Card	98.5	12-23 m	10419	38
DTP1	Card or History	76	12-23 m	10419	38
DTP1	History	62.5	12-23 m	10419	38
DTP3	C or H <12 months	51.5	12-23 m	10419	38
DTP3	Card	86.9	12-23 m	10419	38
DTP3	Card or History	55.3	12-23 m	10419	38
DTP3	History	36.3	12-23 m	10419	38
MCV1	C or H <12 months	48.4	12-23 m	10419	38
MCV1	Card	81.1	12-23 m	10419	38
MCV1	Card or History	58.8	12-23 m	10419	38
MCV1	History	45.4	12-23 m	10419	38
Pol1	C or H <12 months	89.1	12-23 m	10419	38
Pol1	Card	98	12-23 m	10419	38
Pol1	Card or History	93.1	12-23 m	10419	38
Pol1	History	90.2	12-23 m	10419	38
Pol3	C or H <12 months	73.2	12-23 m	10419	38
Pol3	Card	86.6	12-23 m	10419	38
Pol3	Card or History	78.2	12-23 m	10419	38
Pol3	History	73.2	12-23 m	10419	38

2004 India Coverage Evaluation Survey 2005

India - survey details

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	Card or History	83.4	12-23 m	15676	71
DTP1	Card or History	80.4	12-23 m	15676	71
DTP3	Card or History	67.3	12-23 m	15676	71
MCV1	Card or History	68.1	12-23 m	15676	71
Pol1	Card or History	78.6	12-23 m	15676	71
Pol3	Card or History	61.3	12-23 m	15676	71

2002 Reproductive and Child Health (District Level Household Survey 2002-2004) - India

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	Card or History	75	12-23 m	62505	31
DTP1	Card or History	73	12-23 m	62505	31
DTP3	Card or History	58	12-23 m	62505	31
MCV1	Card or History	56	12-23 m	62505	31
Pol3	Card or History	57	12-23 m	62505	31

2001 Routine Immunization and Maternal Care, CES, 2002

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	C or H <12 months	74	12-23 m	-	54
DTP1	C or H <12 months	70.6	12-23 m	-	54
DTP3	C or H <12 months	63.8	12-23 m	-	54
MCV1	C or H <12 months	61.4	12-23 m	-	54
Pol3	C or H <12 months	68.3	12-23 m	-	54

2000 Routine Immunization and Maternal Care, CES, 2001

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	C or H <12 months	72.8	12-23 m	-	57
DTP1	C or H <12 months	71.1	12-23 m	-	57
DTP3	C or H <12 months	63.6	12-23 m	-	57
MCV1	C or H <12 months	55.6	12-23 m	-	57

Pol3	C or H <12 months	70.4	12-23 m	-	57
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1999 India, Multiple Indicator Cluster Survey India (MICS-II) 2000

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	Card or History	67.7	12-23 m	-	-
DTP1	Card or History	64.4	12-23 m	-	-
DTP3	Card or History	46.6	12-23 m	-	-
MCV1	Card or History	50.4	12-23 m	-	-
Pol1	Card or History	69.9	12-23 m	-	-
Pol3	Card or History	58.9	12-23 m	-	-

1997 Evaluation of Routine Immunization 1998-99

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	Card or History	72.3	12-23 m	7855	48
DTP1	Card or History	72.8	12-23 m	7855	48
DTP3	Card or History	68.6	12-23 m	7855	48
MCV1	Card or History	55.2	12-23 m	7855	48
Pol1	Card or History	72.6	12-23 m	7855	48
Pol3	Card or History	68.6	12-23 m	7855	48

1997 National Family Health Survey, India 1998-99

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	C or H <12 months	69.1	12-23 m	10076	34
BCG	Card	95.2	12-23 m	3393	34
BCG	Card or History	71.6	12-23 m	10076	34
BCG	History	59.6	12-23 m	6684	34
DTP1	C or H <12 months	68.8	12-23 m	10076	34
DTP1	Card	98.6	12-23 m	3393	34
DTP1	Card or History	71.4	12-23 m	10076	34
DTP1	History	57.6	12-23 m	6684	34
DTP3	C or H <12 months	52.1	12-23 m	10076	34
DTP3	Card	85.5	12-23 m	3393	34
DTP3	Card or History	55.1	12-23 m	10076	34
DTP3	History	39.7	12-23 m	6684	34

India - survey details

MCV1	C or H <12 months	41.7	12-23 m	10076	34	Pol1	History	76.2	12-23 m	6684	34
MCV1	Card	73.2	12-23 m	3393	34	Pol3	C or H <12 months	59.2	12-23 m	10076	34
MCV1	Card or History	50.7	12-23 m	10076	34	Pol3	Card	85.4	12-23 m	3393	34
MCV1	History	39.3	12-23 m	6684	34	Pol3	Card or History	62.8	12-23 m	10076	34
Pol1	C or H <12 months	80.3	12-23 m	10076	34	Pol3	History	51.3	12-23 m	6684	34
Pol1	Card	98.1	12-23 m	3393	34						
Pol1	Card or History	83.6	12-23 m	10076	34						

India - survey details

Further information and estimates for previous years are available at:

<https://data.unicef.org/topic/child-health/immunization/>

<https://immunizationdata.who.int/listing.html>