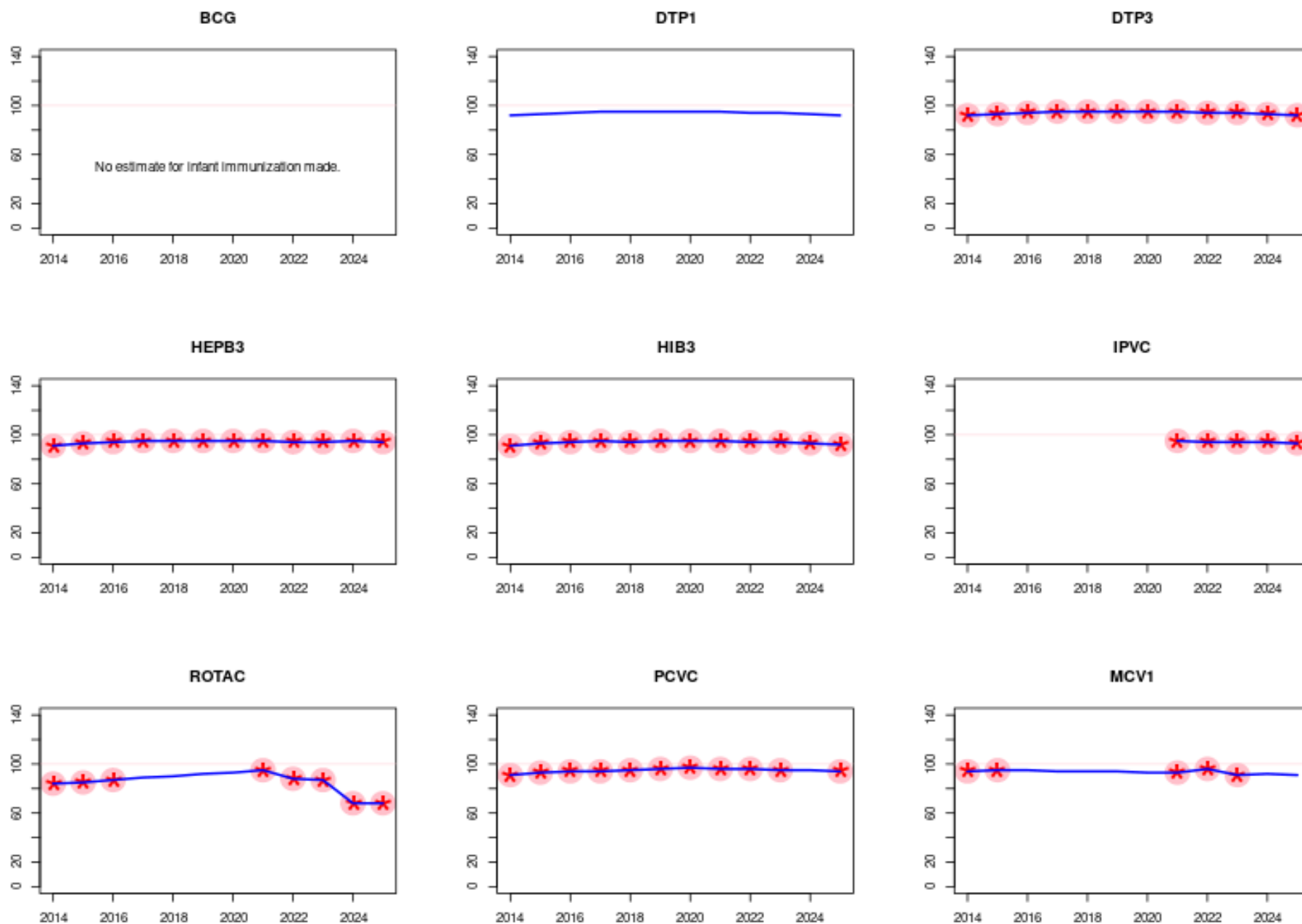




BACKGROUND NOTE Each year WHO and UNICEF jointly review reports submitted by Member States regarding national immunization coverage, finalized survey reports as well as data from published and grey literature. Based on these data, with due consideration to potential biases and the views of local experts, 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. The estimates refer to immunizations delivered through routine immunization services to children less than 12 months of age, or at the age specified in the recommended immunization schedule, for whom vaccinations are recorded. Immunizations received through supplemental immunization activities, such as polio and measles campaigns, are not included.

WHO and UNICEF estimates are country-specific; that is to say, each country's data are reviewed individually, and data are not borrowed from other countries in the absence of data. Estimates are not based on ad hoc adjustments to reported data; in some instances empirical data are available from a single source, usually the nationally reported coverage data. In cases where no data are available for a given country/vaccine/year combination, data are considered from earlier and later years and interpolated to estimate coverage for the missing year(s). In cases where data sources are mixed and show large variation, an attempt is made to identify the most likely estimate with consideration of the possible biases in available data. For methods see:

* Burton et al. 2009. Bull World Health Organ. * Burton et al. 2012. PLoS One.
* Brown et al. 2013. Open Pub Health Journal. * Danovaro-Holliday et al. 2021. Gates Open Res.

DATA SOURCES

ADMINISTRATIVE coverage: Reported by national authorities and based on aggregated administrative reports from health service providers on the number of vaccinations administered during a given period (numerator data) and reported target population data (denominator data). May be biased by inaccurate numerator and/or denominator data.

OFFICIAL coverage: Estimated coverage reported by national authorities that reflects their assessment of the most likely coverage based on any combination of administrative coverage, survey-based estimates or other data sources or adjustments. Approaches to determine OFFICIAL coverage may differ across countries.

SURVEY coverage: Based on estimated coverage from population-based household surveys among children aged 6-11, 12-23 or 24-35 months following a review of survey methods and results. Information is based on the combination of vaccination history from documented evidence or caregiver recall. Survey results are considered for the appropriate birth cohort based on data collection period.

ABBREVIATIONS AND DEFINITIONS

BCG: percentage of births who received one dose of Bacillus Calmette Guerin vaccine.

DTP1 / DTP3: percentage of surviving infants who received the 1st / 3rd dose, respectively, of diphtheria and tetanus toxoid with pertussis containing vaccine.

IPV1: percentage of surviving infants who received the first dose of inactivated polio vaccine.

IPVC: percentage of surviving infants who received the final recommended dose of IPV in the primary series, according to the national immunization schedule primary series (e.g., second or third dose).

MCV1: percentage of surviving infants who received the 1st dose of measles containing vaccine. In countries where the national schedule recommends the 1st dose of MCV at 12 months or later based on the epidemiology of disease in the country, coverage estimates reflect the percentage of children who received the 1st dose of MCV as recommended.

MCV2: percentage of children who received the 2nd dose of measles containing vaccine according to the nationally recommended schedule.

RCV1: percentage of surviving infants who received the 1st dose of rubella containing vaccine. Coverage estimates are based on WHO and UNICEF estimates of coverage for the dose of measles containing vaccine that corresponds to the first measles-rubella combination vaccine. Nationally reported coverage of RCV is not taken into consideration in the production of the estimate.

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.

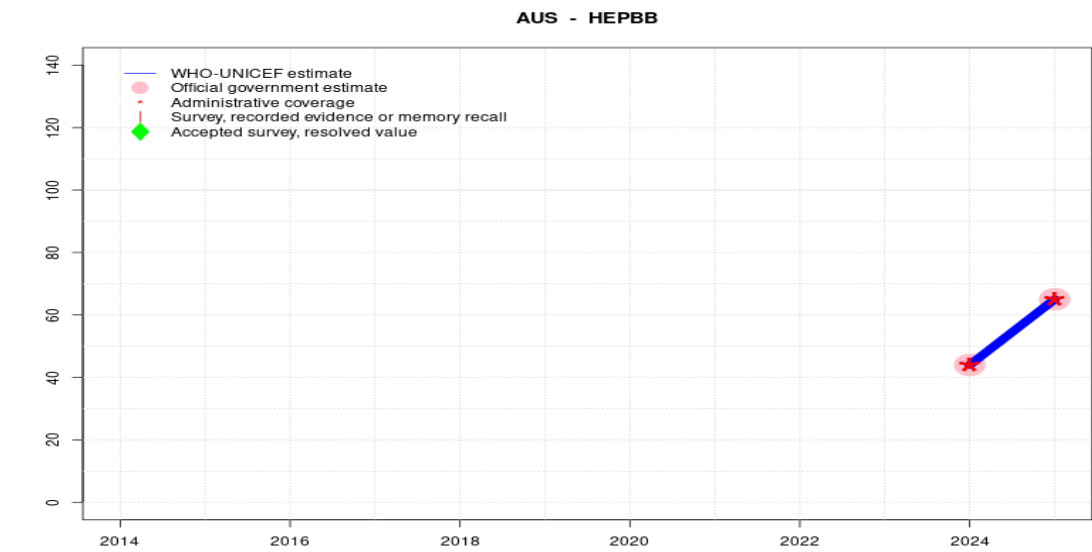
PCVC: percentage of surviving infants who received the final recommended dose of pneumococcal conjugate vaccine according to the national immunization schedule (e.g., second or third dose).

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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Australia - HEPBB



Description:

- 2025: Estimate informed by reported data. Coverage data for Australia can be found at <https://www.health.gov.au/topics/immunisation/immunisation-data/childhood-immunisation-coverage>. Reported target population decline of 24 percent between 2024 and 2025. GoC=R+ D+
- 2024: Estimate informed by reported data. HepB birth dose universally introduced in 2000. Reporting started in 2024. Country indicates that the coverage data is likely an undercount because of the way that live birth vaccinations are reported in Australia. Estimate challenged by: D-

	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Estimate	-	-	-	-	-	-	-	-	-	-	44	65
Estimate GoC	-	-	-	-	-	-	-	-	-	-	●	●●
Official	-	-	-	-	-	-	-	-	-	-	44	65
Administrative	-	-	-	-	-	-	-	-	-	-	44	65
Survey	-	-	-	-	-	-	-	-	-	-	-	-

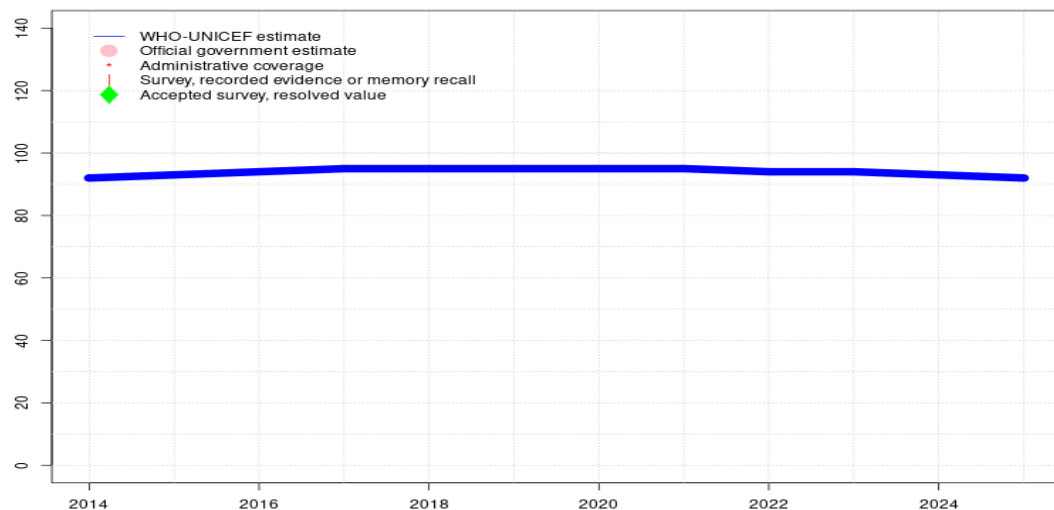
The WHO and UNICEF estimates of national immunization coverage (wuenic) are based on data and information that are of varying, and, in some instances, unknown quality. Beginning with the 2011 revision we describe the grade of confidence (GoC) we have in these estimates. As there is no underlying probability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

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

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

Australia - DTP1

AUS - DTP1



	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Estimate	92	93	94	95	95	95	95	95	94	94	93	92
Estimate GoC	●	●	●	●	●	●	●	●	●	●	●	●
Official	-	-	-	-	-	-	-	-	-	-	-	-
Administrative	-	-	-	-	-	-	-	-	-	-	-	-
Survey	-	-	-	-	-	-	-	-	-	-	-	-

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

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

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

Description:

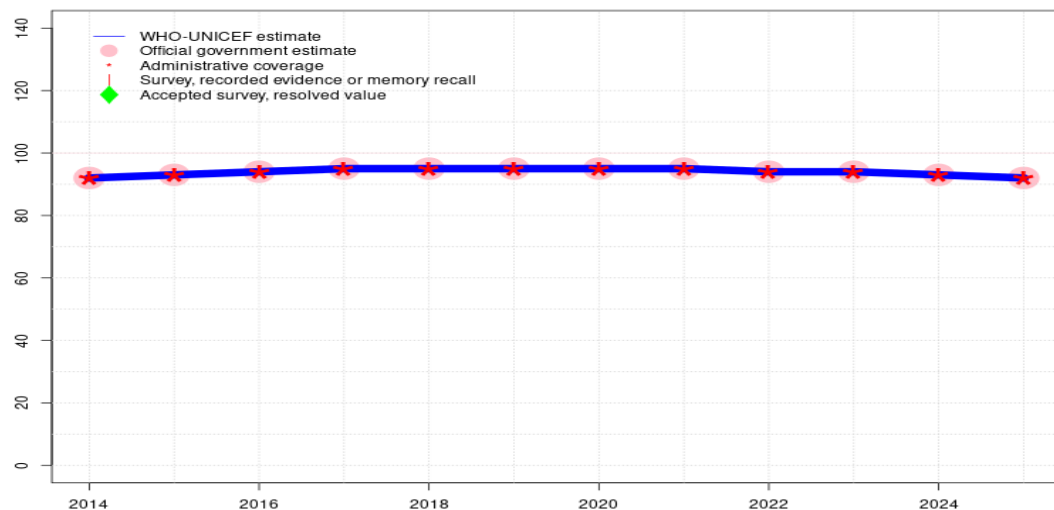
- 2025: Estimate based on DTP3 coverage of 92. Coverage data for Australia can be found at <https://www.health.gov.au/topics/immunisation/immunisation-data/childhood-immunisation-coverage>. In the absence of reported data, estimated coverage informed by estimated DTP3 coverage assuming zero dropout. GoC=No accepted empirical data
- 2024: Estimate based on DTP3 coverage of 93. In the absence of reported data, estimated coverage informed by estimated DTP3 coverage assuming zero dropout. GoC=No accepted empirical data
- 2023: Estimate based on DTP3 coverage of 94. In the absence of reported data, estimated coverage informed by estimated DTP3 coverage assuming zero dropout. GoC=No accepted empirical data
- 2022: Estimate based on DTP3 coverage of 94. A study of vaccination coverage as observed from an analysis of the Australian Immunization Register can be found online at <http://ncirs.org.au> by searching for NCIRS Annual Immunisation Coverage Report 2022. Results of a 2022 assessment of the completeness of records in Australian Immunization Register suggest that there might slightly underestimate coverage and that this varies across the country. In the absence of reported data, estimated coverage informed by estimated DTP3 coverage assuming zero dropout. GoC=No accepted empirical data
- 2021: Estimate based on DTP3 coverage of 95. In the absence of reported data, estimated coverage informed by estimated DTP3 coverage assuming zero dropout. GoC=No accepted empirical data
- 2020: Estimate based on DTP3 coverage of 95. In the absence of reported data, estimated coverage informed by estimated DTP3 coverage assuming zero dropout. GoC=No accepted empirical data
- 2019: Estimate based on DTP3 coverage of 95. In the absence of reported data, estimated coverage informed by estimated DTP3 coverage assuming zero dropout. GoC=No accepted empirical data
- 2018: In the absence of reported data, estimated coverage informed by estimated DTP3 coverage assuming zero dropout. A study of vaccination coverage as observed from an analysis of the Australian Immunization Register can be found online at <http://ncirs.org.au> by searching for NCIRS Annual Immunisation Coverage Report 2018. Results of a 2018 assessment of the completeness of records in Australian Immunization Register indicates the register slightly underestimates vaccination coverage and that this varies across the country. Results can be found online at <http://www.ncirs.org.au> by searching for Australian Immunisation Register Data Transfer Study - Stage 2 Final Report, August 2018. GoC=No accepted empirical data
- 2017: In the absence of reported data, estimated coverage informed by estimated DTP3 coverage assuming zero dropout. GoC=No accepted empirical data
- 2016: In the absence of reported data, estimated coverage informed by estimated DTP3 coverage assuming zero dropout. GoC=No accepted empirical data
- 2015: In the absence of reported data, estimated coverage informed by estimated DTP3 coverage assuming zero dropout. GoC=No accepted empirical data

Australia - DTP1

2014: In the absence of reported data, estimated coverage informed by estimated DTP3 coverage assuming zero dropout. Results of an audit of the Australian Immunisation Register (available at <https://www.anao.gov.au/work/performance-audit/administration-australian-childhood-immunisation-register>) supports reported coverage levels. GoC=No accepted empirical data

Australia - DTP3

AUS - DTP3



	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Estimate	92	93	94	95	95	95	95	95	94	94	93	92
Estimate GoC	●●	●●	●●	●●	●●	●●	●●	●●	●●	●●	●●	●●
Official	92	93	94	95	95	95	95	95	94	94	93	92
Administrative	92	93	94	95	95	95	95	95	94	94	93	92
Survey	-	-	-	-	-	-	-	-	-	-	-	-

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

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

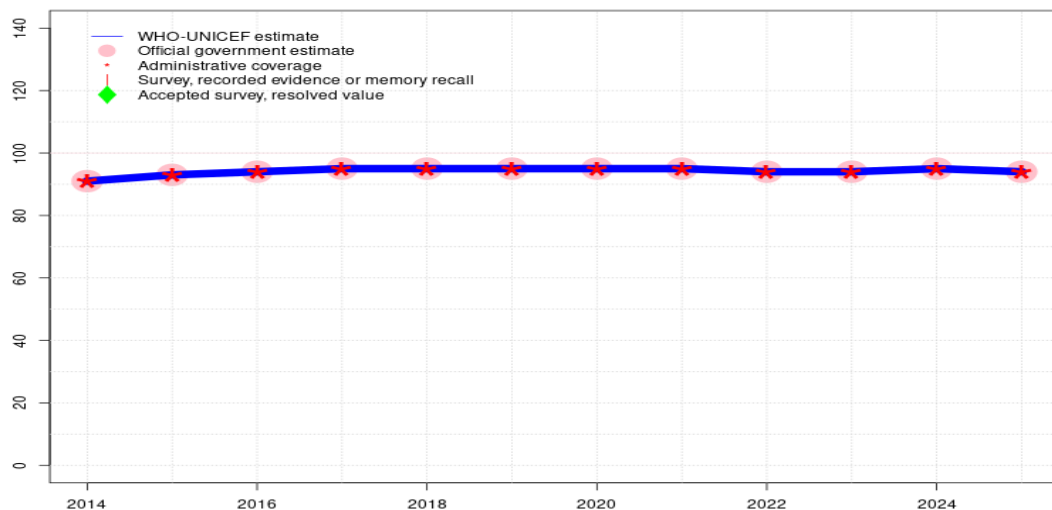
In all cases these estimates should be used with caution and should be assessed in light of the objective for which they are being used.

Description:

- 2025: Estimate informed by reported data. Coverage data for Australia can be found at <https://www.health.gov.au/topics/immunisation/immunisation-data/childhood-immunisation-coverage>. GoC=R+ D+
- 2024: Estimate informed by reported data. GoC=R+ D+
- 2023: Estimate informed by reported data. GoC=R+ D+
- 2022: Estimate informed by reported data. A study of vaccination coverage as observed from an analysis of the Australian Immunization Register can be found online at <http://ncirs.org.au> by searching for NCIRS Annual Immunisation Coverage Report 2022. Results of a 2022 assessment of the completeness of records in Australian Immunization Register suggest that there might slightly underestimate coverage and that this varies across the country. GoC=R+ D+
- 2021: Estimate informed by reported data. GoC=R+ D+
- 2020: Estimate informed by reported data. GoC=R+ D+
- 2019: Estimate informed by reported data. GoC=R+ D+
- 2018: Estimate informed by reported data. A study of vaccination coverage as observed from an analysis of the Australian Immunization Register can be found online at <http://ncirs.org.au> by searching for NCIRS Annual Immunisation Coverage Report 2018. Results of a 2018 assessment of the completeness of records in Australian Immunization Register indicates the register slightly underestimates vaccination coverage and that this varies across the country. Results can be found online at <http://www.ncirs.org.au> by searching for Australian Immunisation Register Data Transfer Study - Stage 2 Final Report, August 2018. GoC=R+ D+
- 2017: Estimate informed by reported data. GoC=R+ D+
- 2016: Estimate informed by reported data. GoC=R+ D+
- 2015: Estimate informed by reported data. GoC=R+ D+
- 2014: Estimate informed by reported data. Results of an audit of the Australian Immunisation Register (available at <https://www.anao.gov.au/work/performance-audit/administration-australian-childhood-immunisation-register>) supports reported coverage levels. GoC=R+ D+

Australia - HEPB3

AUS - HEPB3



	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Estimate	91	93	94	95	95	95	95	95	94	94	95	94
Estimate GoC	••	••	••	••	••	••	••	••	••	••	•	•
Official	91	93	94	95	95	95	95	95	94	94	95	94
Administrative	91	93	94	95	95	95	95	95	94	94	95	94
Survey	-	-	-	-	-	-	-	-	-	-	-	-

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

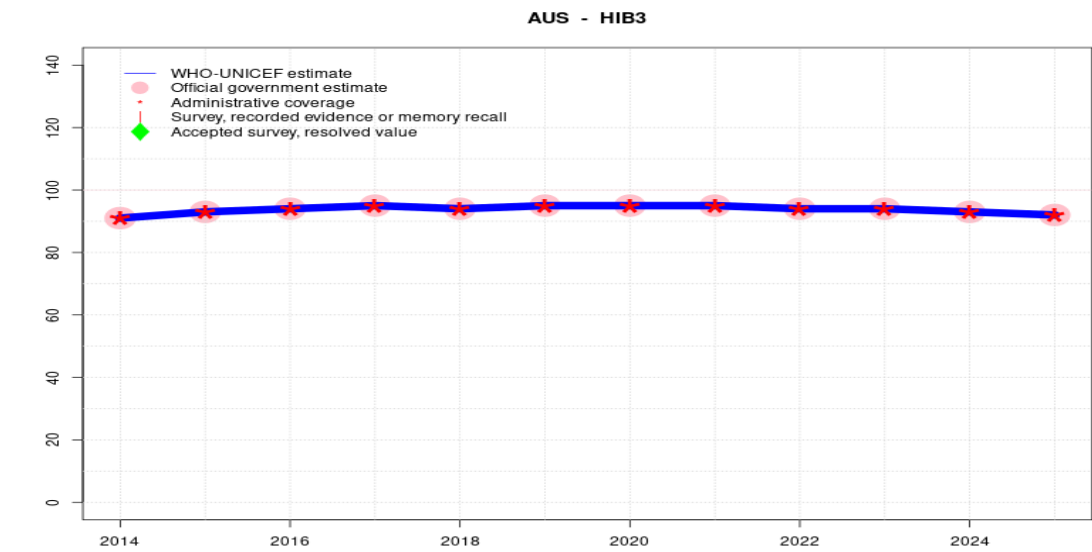
- Estimate is supported by reported data [R+], coverage recalculated with an independent denominator from the World Population Prospects: 2024 revision from the UN Population Division (D+), and at least one supporting survey within 2 years [S+]. While well supported, the estimate still carries a risk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

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

Description:

- 2025: Estimate informed by reported data. Coverage data for Australia can be found at <https://www.health.gov.au/topics/immunisation/immunisation-data/childhood-immunisation-coverage>. Estimate challenged by: D-
- 2024: Estimate informed by reported data. Since 2024, the reported numerator and denominator reflects vaccination in a double cohort. Estimate challenged by: D-
- 2023: Estimate informed by reported data. GoC=R+ D+
- 2022: Estimate informed by reported data. A study of vaccination coverage as observed from an analysis of the Australian Immunization Register can be found online at <http://ncirs.org.au> by searching for NCIRS Annual Immunisation Coverage Report 2022. Results of a 2022 assessment of the completeness of records in Australian Immunization Register suggest that there might slightly underestimate coverage and that this varies across the country. GoC=R+ D+
- 2021: Estimate informed by reported data. GoC=R+ D+
- 2020: Estimate informed by reported data. GoC=R+ D+
- 2019: Estimate informed by reported data. GoC=R+ D+
- 2018: Estimate informed by reported data. A study of vaccination coverage as observed from an analysis of the Australian Immunization Register can be found online at <http://ncirs.org.au> by searching for NCIRS Annual Immunisation Coverage Report 2018. Results of a 2018 assessment of the completeness of records in Australian Immunization Register indicates the register slightly underestimates vaccination coverage and that this varies across the country. Results can be found online at <http://www.ncirs.org.au> by searching for Australian Immunisation Register Data Transfer Study - Stage 2 Final Report, August 2018. GoC=R+ D+
- 2017: Estimate informed by reported data. GoC=R+ D+
- 2016: Estimate informed by reported data. GoC=R+ D+
- 2015: Estimate informed by reported data. GoC=R+ D+
- 2014: Estimate informed by reported data. Results of an audit of the Australian Immunisation Register (available at <https://www.anao.gov.au/work/performance-audit/administration-australian-childhood-immunisation-register>) supports reported coverage levels. GoC=R+ D+

Australia - HIB3



	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Estimate	91	93	94	95	94	95	95	95	94	94	93	92
Estimate GoC	●●	●●	●●	●●	●●	●●	●●	●●	●●	●●	●	●
Official	91	93	94	95	94	95	95	95	94	94	93	92
Administrative	91	93	94	95	94	95	95	95	94	94	93	92
Survey	-	-	-	-	-	-	-	-	-	-	-	-

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

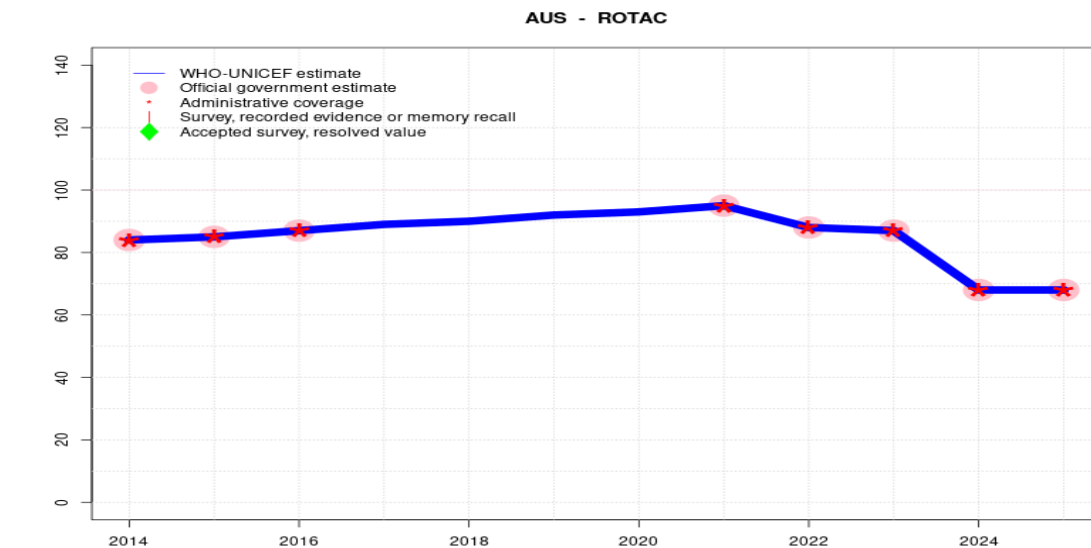
- Estimate is supported by reported data [R+], coverage recalculated with an independent denominator from the World Population Prospects: 2024 revision from the UN Population Division (D+), and at least one supporting survey within 2 years [S+]. While well supported, the estimate still carries a risk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

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

Description:

- 2025: Estimate informed by reported data. Coverage data for Australia can be found at <https://www.health.gov.au/topics/immunisation/immunisation-data/childhood-immunisation-coverage>. Estimate challenged by: D-
- 2024: Estimate informed by reported data. Since 2024, the reported numerator and denominator reflects vaccination in a double cohort. Estimate challenged by: D-
- 2023: Estimate informed by reported data. GoC=R+ D+
- 2022: Estimate informed by reported data. A study of vaccination coverage as observed from an analysis of the Australian Immunization Register can be found online at <http://ncirs.org.au> by searching for NCIRS Annual Immunisation Coverage Report 2022. Results of a 2022 assessment of the completeness of records in Australian Immunization Register suggest that there might slightly underestimate coverage and that this varies across the country. GoC=R+ D+
- 2021: Estimate informed by reported data. GoC=R+ D+
- 2020: Estimate informed by reported data. GoC=R+ D+
- 2019: Estimate informed by reported data. GoC=R+ D+
- 2018: Estimate informed by reported data. A study of vaccination coverage as observed from an analysis of the Australian Immunization Register can be found online at <http://ncirs.org.au> by searching for NCIRS Annual Immunisation Coverage Report 2018. Results of a 2018 assessment of the completeness of records in Australian Immunization Register indicates the register slightly underestimates vaccination coverage and that this varies across the country. Results can be found online at <http://www.ncirs.org.au> by searching for Australian Immunisation Register Data Transfer Study - Stage 2 Final Report, August 2018. GoC=R+ D+
- 2017: Estimate informed by reported data. GoC=R+ D+
- 2016: Estimate informed by reported data. GoC=R+ D+
- 2015: Estimate informed by reported data. GoC=R+ D+
- 2014: Estimate informed by reported data. Results of an audit of the Australian Immunisation Register (available at <https://www.anao.gov.au/work/performance-audit/administration-australian-childhood-immunisation-register>) supports reported coverage levels. GoC=R+ D+

Australia - ROTAC



	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Estimate	84	85	87	89	90	92	93	95	88	87	68	68
Estimate GoC	●●	●●	●●	●	●	●	●	●●	●●	●●	●●	●●
Official	84	85	87	-	-	-	-	95	88	87	68	68
Administrative	84	85	87	-	-	-	-	95	88	87	68	68
Survey	-	-	-	-	-	-	-	-	-	-	-	-

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

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

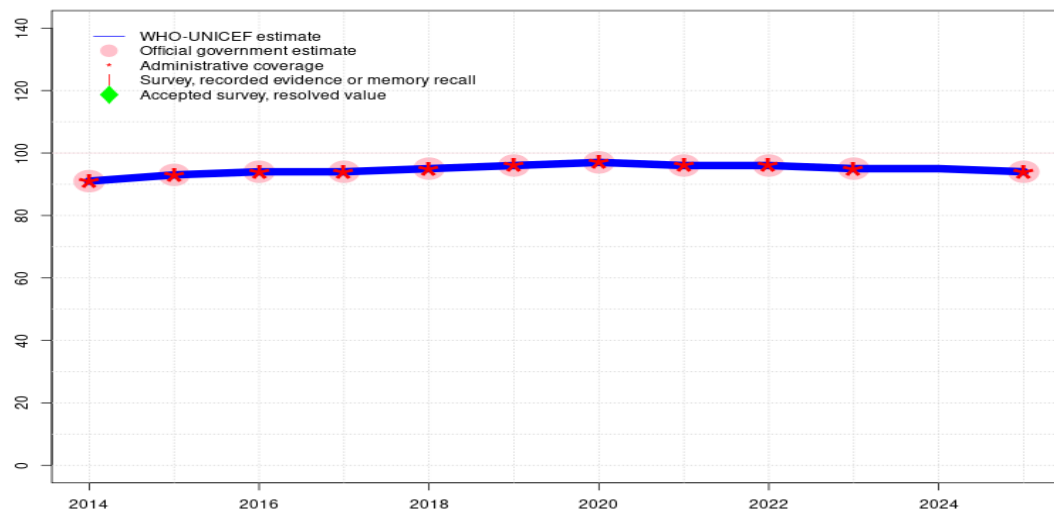
In all cases these estimates should be used with caution and should be assessed in light of the objective for which they are being used.

Description:

- 2025: Estimate informed by reported data. Coverage data for Australia can be found at <https://www.health.gov.au/topics/immunisation/immunisation-data/childhood-immunisation-coverage>. GoC=R+ D+
- 2024: Estimate informed by reported data. Reported drop in coverage may be explained by change in approach to calculation. Country reported a new methodology for assessing RotaC coverage from 2024. Number vaccinated is calculated by ordering all Rotavirus vaccinations by date of administration for every individual, then counting the number of second doses administered between 120 days (4 months) and 168 days (6 months) old. The denominator is the annual number of individuals between 4 months and 6 months old. GoC=R+ D+
- 2023: Estimate informed by reported data. GoC=R+ D+
- 2022: Estimate informed by reported data. A study of vaccination coverage as observed from an analysis of the Australian Immunization Register can be found online at <http://ncirs.org.au> by searching for NCIRS Annual Immunisation Coverage Report 2022. Results of a 2022 assessment of the completeness of records in Australian Immunization Register suggest that there might slightly underestimate coverage and that this varies across the country. Unexplained seven percent decline between 2021 and 2022. GoC=R+ D+
- 2021: Estimate informed by reported data. GoC=R+ D+
- 2020: Estimate informed by interpolation between reported data. GoC=No accepted empirical data
- 2019: Estimate informed by interpolation between reported data. GoC=No accepted empirical data
- 2018: Estimate informed by interpolation between reported data. A study of vaccination coverage as observed from an analysis of the Australian Immunization Register can be found online at <http://ncirs.org.au> by searching for NCIRS Annual Immunisation Coverage Report 2018. Results of a 2018 assessment of the completeness of records in Australian Immunization Register indicates the register slightly underestimates vaccination coverage and that this varies across the country. Results can be found online at <http://www.ncirs.org.au> by searching for Australian Immunisation Register Data Transfer Study - Stage 2 Final Report, August 2018. GoC=No accepted empirical data
- 2017: Estimate informed by interpolation between reported data. GoC=No accepted empirical data
- 2016: Estimate informed by reported data. GoC=R+ D+
- 2015: Estimate informed by reported data. GoC=R+ D+
- 2014: Estimate informed by reported data. Results of an audit of the Australian Immunisation Register (available at <https://www.anao.gov.au/work/performance-audit/administration-australian-childhood-immunisation-register>) supports reported coverage levels. GoC=R+ D+

Australia - PCVC

AUS - PCVC



	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Estimate	91	93	94	94	95	96	97	96	96	95	95	94
Estimate GoC	●●	●●	●●	●●	●●	●●	●●	●●	●●	●●	●	●●
Official	91	93	94	94	95	96	97	96	96	95	-	94
Administrative	91	93	94	94	95	96	97	96	96	95	-	94
Survey	-	-	-	-	-	-	-	-	-	-	-	-

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

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

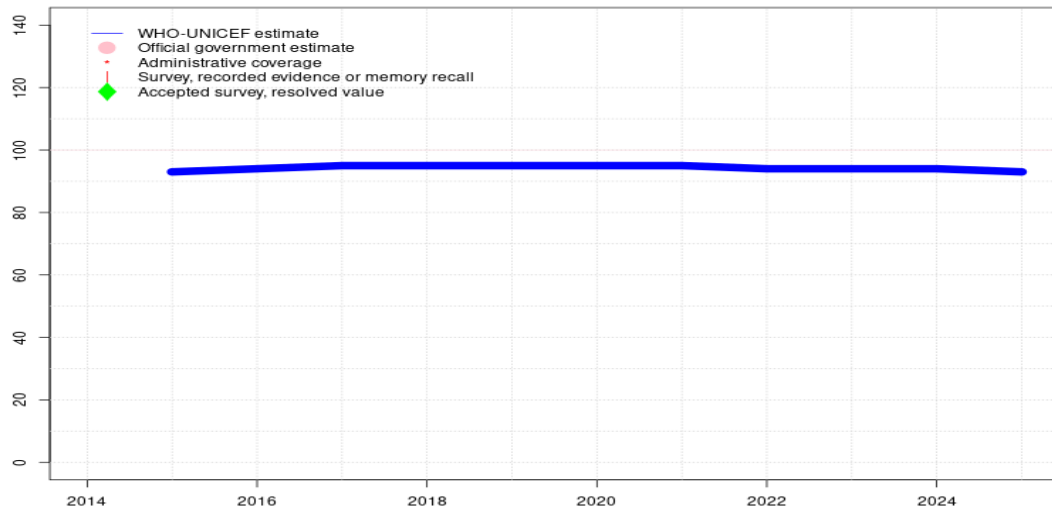
In all cases these estimates should be used with caution and should be assessed in light of the objective for which they are being used.

Description:

- 2025: Estimate informed by reported data. Coverage data for Australia can be found at <https://www.health.gov.au/topics/immunisation/immunisation-data/childhood-immunisation-coverage>. GoC=R+ D+
- 2024: Estimate informed by interpolation between reported data. GoC=No accepted empirical data
- 2023: Estimate informed by reported data. GoC=R+ D+
- 2022: Estimate informed by reported data. A study of vaccination coverage as observed from an analysis of the Australian Immunization Register can be found online at <http://ncirs.org.au> by searching for NCIRS Annual Immunisation Coverage Report 2022. Results of a 2022 assessment of the completeness of records in Australian Immunization Register suggest that there might slightly underestimate coverage and that this varies across the country. GoC=R+ D+
- 2021: Estimate informed by reported data. GoC=R+ D+
- 2020: Estimate informed by reported data. GoC=R+ D+
- 2019: Estimate informed by reported data. GoC=R+ D+
- 2018: Estimate informed by reported data. A study of vaccination coverage as observed from an analysis of the Australian Immunization Register can be found online at <http://ncirs.org.au> by searching for NCIRS Annual Immunisation Coverage Report 2018. Results of a 2018 assessment of the completeness of records in Australian Immunization Register indicates the register slightly underestimates vaccination coverage and that this varies across the country. Results can be found online at <http://www.ncirs.org.au> by searching for Australian Immunisation Register Data Transfer Study - Stage 2 Final Report, August 2018. GoC=R+ D+
- 2017: Estimate informed by reported data. GoC=R+ D+
- 2016: Estimate informed by reported data. GoC=R+ D+
- 2015: Estimate informed by reported data. GoC=R+ D+
- 2014: Estimate informed by reported data. Results of an audit of the Australian Immunisation Register (available at <https://www.anao.gov.au/work/performance-audit/administration-australian-childhood-immunisation-register>) supports reported coverage levels. GoC=R+ D+

Australia - IPV1

AUS - IPV1



	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Estimate	-	93	94	95	95	95	95	95	94	94	94	93
Estimate GoC	-	•	•	•	•	•	•	•	•	•	•	•
Official	-	-	-	-	-	-	-	-	-	-	-	-
Administrative	-	-	-	-	-	-	-	-	-	-	-	-
Survey	-	-	-	-	-	-	-	-	-	-	-	-

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

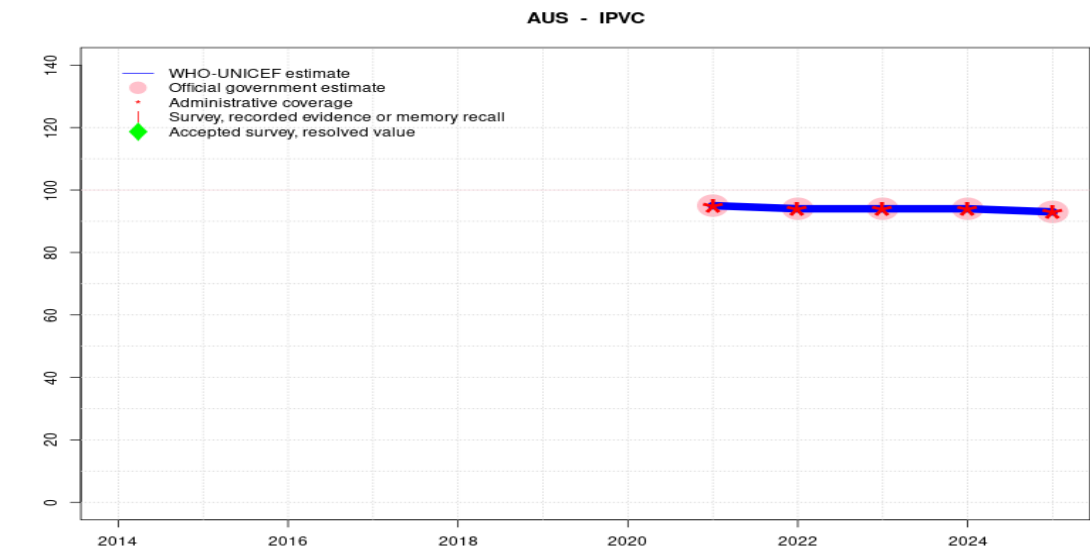
- Estimate is supported by reported data [R+], coverage recalculated with an independent denominator from the World Population Prospects: 2024 revision from the UN Population Division (D+), and at least one supporting survey within 2 years [S+]. While well supported, the estimate still carries a risk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

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

Description:

- 2025: In the absence of reported data, estimated coverage informed by estimated IPVC coverage. Coverage data for Australia can be found at <https://www.health.gov.au/topics/immunisation/immunisation-data/childhood-immunisation-coverage>. GoC=No accepted empirical data
- 2024: In the absence of reported data, estimated coverage informed by estimated IPVC coverage. Estimate of 94 percent changed from previous revision value of 93 percent. GoC=No accepted empirical data
- 2023: In the absence of reported data, estimated coverage informed by estimated IPVC coverage. GoC=No accepted empirical data
- 2022: In the absence of reported data, estimated coverage informed by estimated IPVC coverage. A study of vaccination coverage as observed from an analysis of the Australian Immunization Register can be found online at <http://ncirs.org.au> by searching for NCIRS Annual Immunisation Coverage Report 2022. Results of a 2022 assessment of the completeness of records in Australian Immunization Register suggest that there might slightly underestimate coverage and that this varies across the country. GoC=No accepted empirical data
- 2021: In the absence of reported data, estimated coverage informed by estimated IPVC coverage. GoC=No accepted empirical data
- 2020: In the absence of reported data, estimated coverage informed by estimated DTP1 coverage. GoC=No accepted empirical data
- 2019: In the absence of reported data, estimated coverage informed by estimated DTP1 coverage. GoC=No accepted empirical data
- 2018: In the absence of reported data, estimated coverage informed by estimated DTP1 coverage. A study of vaccination coverage as observed from an analysis of the Australian Immunization Register can be found online at <http://ncirs.org.au> by searching for NCIRS Annual Immunisation Coverage Report 2018. Results of a 2018 assessment of the completeness of records in Australian Immunization Register indicates the register slightly underestimates vaccination coverage and that this varies across the country. Results can be found online at <http://www.ncirs.org.au> by searching for Australian Immunisation Register Data Transfer Study - Stage 2 Final Report, August 2018. GoC=No accepted empirical data
- 2017: In the absence of reported data, estimated coverage informed by estimated DTP1 coverage. GoC=No accepted empirical data
- 2016: In the absence of reported data, estimated coverage informed by estimated DTP1 coverage. GoC=No accepted empirical data
- 2015: In the absence of reported data, estimated coverage informed by estimated DTP1 coverage. GoC=No accepted empirical data

Australia - IPVC



Description:

- 2025: Estimate informed by reported data. Coverage data for Australia can be found at <https://www.health.gov.au/topics/immunisation/immunisation-data/childhood-immunisation-coverage>. Estimate challenged by: D-
- 2024: Estimate informed by reported data. Since 2024, the reported numerator and denominator reflects vaccination in a double cohort. Estimate challenged by: D-
- 2023: Estimate informed by reported data. GoC=R+ D+
- 2022: Estimate informed by reported data. A study of vaccination coverage as observed from an analysis of the Australian Immunization Register can be found online at <http://ncirs.org.au> by searching for NCIRS Annual Immunisation Coverage Report 2022. Results of a 2022 assessment of the completeness of records in Australian Immunization Register suggest that there might slightly underestimate coverage and that this varies across the country. GoC=R+ D+
- 2021: Estimate informed by reported data. GoC=R+ D+

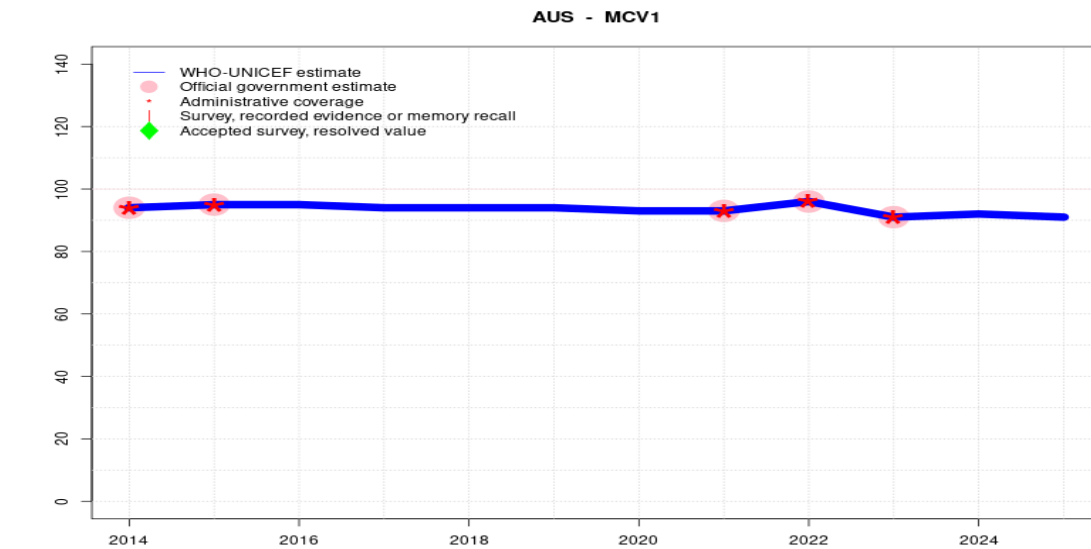
	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Estimate	-	-	-	-	-	-	-	95	94	94	94	93
Estimate GoC	-	-	-	-	-	-	-	●●	●●	●●	●	●
Official	-	-	-	-	-	-	-	95	94	94	94	93
Administrative	-	-	-	-	-	-	-	95	94	94	94	93
Survey	-	-	-	-	-	-	-	-	-	-	-	-

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

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

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

Australia - MCV1



	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Estimate	94	95	95	94	94	94	93	93	96	91	92	91
Estimate GoC	●●	●●	●	●	●	●	●	●●	●●	●●	●	●
Official	94	95	-	-	-	-	-	93	96	91	-	-
Administrative	94	95	-	-	-	-	-	93	96	91	-	-
Survey	-	-	-	-	-	-	-	-	-	-	-	-

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

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

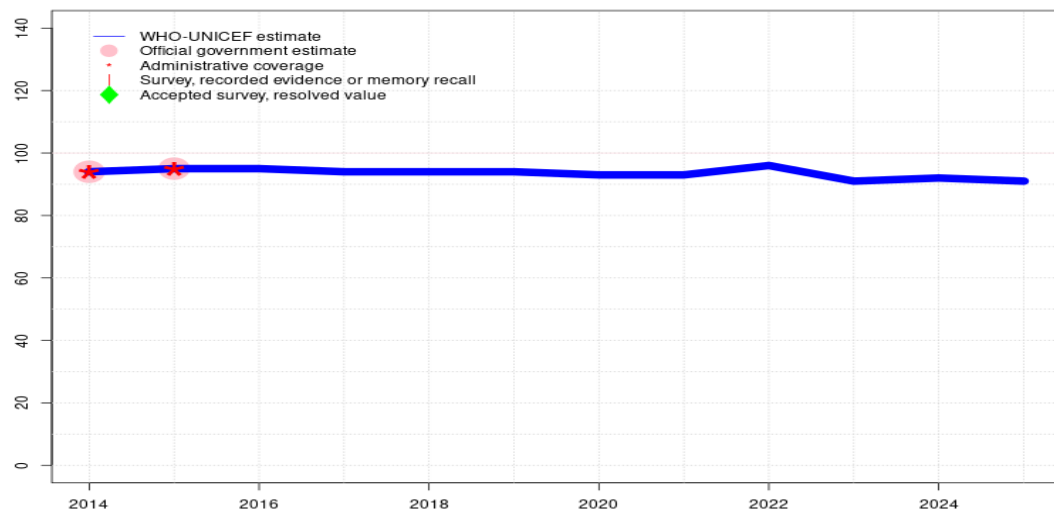
In all cases these estimates should be used with caution and should be assessed in light of the objective for which they are being used.

Description:

- 2025: In the absence of reported data, estimated coverage informed by estimated MCV2 coverage. Coverage data for Australia can be found at <https://www.health.gov.au/topics/immunisation/immunisation-data/childhood-immunisation-coverage>. GoC=No accepted empirical data
- 2024: In the absence of reported data, estimated coverage informed by estimated MCV2 coverage. Estimate of 92 percent changed from previous revision value of 91 percent. GoC=No accepted empirical data
- 2023: Estimate informed by reported data. GoC=R+ D+
- 2022: Estimate informed by reported data. A study of vaccination coverage as observed from an analysis of the Australian Immunization Register can be found online at <http://ncirs.org.au> by searching for NCIRS Annual Immunisation Coverage Report 2022. Results of a 2022 assessment of the completeness of records in Australian Immunization Register suggest that there might slightly underestimate coverage and that this varies across the country. GoC=R+ D+
- 2021: Estimate informed by reported data. GoC=R+ D+
- 2020: Estimate informed by interpolation between reported data. GoC=No accepted empirical data
- 2019: Estimate informed by interpolation between reported data. GoC=No accepted empirical data
- 2018: Estimate informed by interpolation between reported data. A study of vaccination coverage as observed from an analysis of the Australian Immunization Register can be found online at <http://ncirs.org.au> by searching for NCIRS Annual Immunisation Coverage Report 2018. Results of a 2018 assessment of the completeness of records in Australian Immunization Register indicates the register slightly underestimates vaccination coverage and that this varies across the country. Results can be found online at <http://www.ncirs.org.au> by searching for Australian Immunisation Register Data Transfer Study - Stage 2 Final Report, August 2018. GoC=No accepted empirical data
- 2017: Estimate informed by interpolation between reported data. GoC=No accepted empirical data
- 2016: Estimate informed by interpolation between reported data. GoC=No accepted empirical data
- 2015: Estimate informed by reported data. GoC=R+ D+
- 2014: Estimate informed by reported data. Results of an audit of the Australian Immunisation Register (available at <https://www.anao.gov.au/work/performance-audit/administration-australian-childhood-immunisation-register>) supports reported coverage levels. GoC=R+ D+

Australia - RCV1

AUS - RCV1



	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Estimate	94	95	95	94	94	94	93	93	96	91	92	91
Estimate GoC	●●	●●	●	●	●	●	●	●●	●●	●●	●	●
Official	94	95	-	-	-	-	-	-	-	-	-	-
Administrative	94	95	-	-	-	-	-	-	-	-	-	-
Survey	-	-	-	-	-	-	-	-	-	-	-	-

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

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

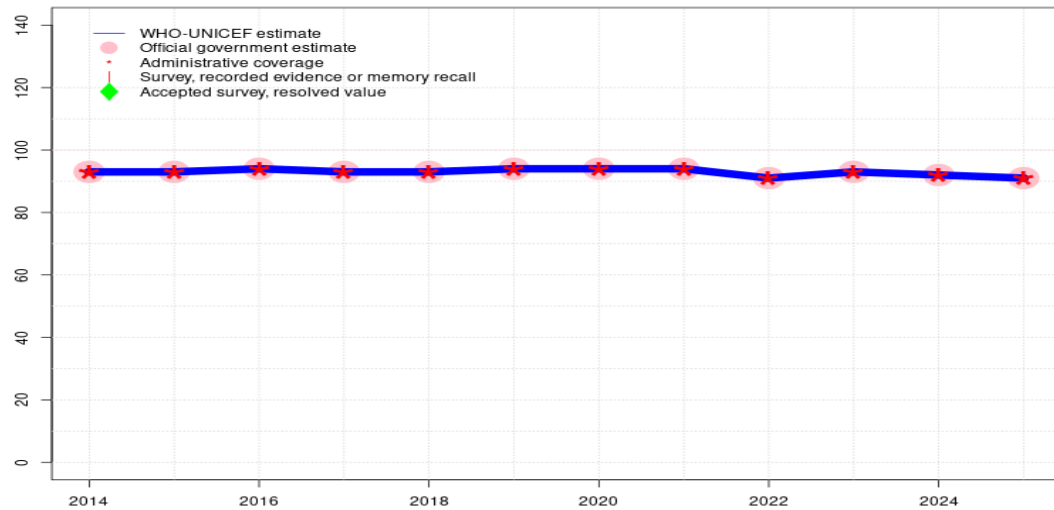
In all cases these estimates should be used with caution and should be assessed in light of the objective for which they are being used.

Description:

- 2025: Estimate based on estimated MCV1 coverage. Coverage data for Australia can be found at <https://www.health.gov.au/topics/immunisation/immunisation-data/childhood-immunisation-coverage>. GoC=No accepted empirical data
- 2024: Estimate based on estimated MCV1 coverage. Estimate of 92 percent changed from previous revision value of 91 percent. GoC=No accepted empirical data
- 2023: Estimate based on estimated MCV1. GoC=R+ D+
- 2022: Estimate based on estimated MCV1. A study of vaccination coverage as observed from an analysis of the Australian Immunization Register can be found online at <http://ncirs.org.au> by searching for NCIRS Annual Immunisation Coverage Report 2022. Results of a 2022 assessment of the completeness of records in Australian Immunization Register suggest that there might slightly underestimate coverage and that this varies across the country. GoC=R+ D+
- 2021: Estimate based on estimated MCV1. GoC=R+ D+
- 2020: Estimate based on estimated MCV1. GoC=No accepted empirical data
- 2019: Estimate based on estimated MCV1. GoC=No accepted empirical data
- 2018: Estimate based on estimated MCV1. A study of vaccination coverage as observed from an analysis of the Australian Immunization Register can be found online at <http://ncirs.org.au> by searching for NCIRS Annual Immunisation Coverage Report 2018. Results of a 2018 assessment of the completeness of records in Australian Immunization Register indicates the register slightly underestimates vaccination coverage and that this varies across the country. Results can be found online at <http://www.ncirs.org.au> by searching for Australian Immunisation Register Data Transfer Study - Stage 2 Final Report, August 2018. GoC=No accepted empirical data
- 2017: Estimate based on estimated MCV1. GoC=No accepted empirical data
- 2016: Estimate based on estimated MCV1. GoC=No accepted empirical data
- 2015: Estimate based on estimated MCV1. GoC=R+ D+
- 2014: Estimate based on estimated MCV1. Results of an audit of the Australian Immunisation Register (available at <https://www.anao.gov.au/work/performance-audit/administration-australian-childhood-immunisation-register>) supports reported coverage levels. GoC=R+ D+

Australia - MCV2

AUS - MCV2



	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024	2025
Estimate	93	93	94	93	93	94	94	94	91	93	92	91
Estimate GoC	●●	●●	●●	●●	●●	●●	●●	●●	●●	●●	●●	●●
Official	93	93	94	93	93	94	94	94	91	93	92	91
Administrative	93	93	94	93	93	94	94	94	91	93	92	91
Survey	-	-	-	-	-	-	-	-	-	-	-	-

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

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

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

Description:

- 2025: Estimate informed by reported data. Coverage data for Australia can be found at <https://www.health.gov.au/topics/immunisation/immunisation-data/childhood-immunisation-coverage>. GoC=R+ D+
- 2024: Estimate informed by reported data. GoC=R+ D+
- 2023: Estimate informed by reported data. GoC=R+ D+
- 2022: Estimate informed by reported data. A study of vaccination coverage as observed from an analysis of the Australian Immunization Register can be found online at <http://ncirs.org.au> by searching for NCIRS Annual Immunisation Coverage Report 2022. Results of a 2022 assessment of the completeness of records in Australian Immunization Register suggest that there might slightly underestimate coverage and that this varies across the country. GoC=R+ D+
- 2021: Estimate informed by reported data. GoC=R+ D+
- 2020: Estimate informed by reported data. GoC=R+ D+
- 2019: Estimate informed by reported data. GoC=R+ D+
- 2018: Estimate informed by reported data. A study of vaccination coverage as observed from an analysis of the Australian Immunization Register can be found online at <http://ncirs.org.au> by searching for NCIRS Annual Immunisation Coverage Report 2018. Results of a 2018 assessment of the completeness of records in Australian Immunization Register indicates the register slightly underestimates vaccination coverage and that this varies across the country. Results can be found online at <http://www.ncirs.org.au> by searching for Australian Immunisation Register Data Transfer Study - Stage 2 Final Report, August 2018. GoC=R+ D+
- 2017: Estimate informed by reported data. GoC=R+ D+
- 2016: Estimate informed by reported data. GoC=R+ D+
- 2015: Estimate informed by reported data. GoC=R+ D+
- 2014: Estimate informed by reported data. Results of an audit of the Australian Immunisation Register (available at <https://www.anao.gov.au/work/performance-audit/administration-australian-childhood-immunisation-register>) supports reported coverage levels. GoC=R+ D+

Further information and estimates for previous years are available at:

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

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