

BACKGROUND NOTE: Each year WHO and UNICEF jointly review reports submitted by Member States regarding national immunization coverage, finalized survey reports as well as data from the published and grey literature. Based on these data, with due consideration to potential biases and the views of local experts, WHO and UNICEF attempt to distinguish between situations where the available empirical data accurately reflect immunization system performance and those where the data are likely to be compromised and present a misleading view of immunization coverage while jointly estimating the most likely coverage levels for each country.

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

*Burton et al. 2009. WHO and UNICEF estimates of national infant immunization coverage: methods and processes.

*Burton et al. 2012. A formal representation of the WHO and UNICEF estimates of national immunization coverage: a computational logic approach.

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

DATA SOURCES.

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

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

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

ABBREVIATIONS

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

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

Pol3: percentage of surviving infants who received the 3rd dose of polio containing vaccine. May be 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 among countries. For countries utilizing IPV containing vaccine use only, i.e., no recommended dose of OPV, the WHO and UNICEF estimate for IPV1 corresponds to coverage for the 1st dose of IPV.

Production of IPV coverage estimates, which begins in 2015, results in no change of the estimated coverage levels for the 3rd dose of polio (Pol3). For countries recommending routine immunization with a primary series of three doses of IPV alone, WHO and UNICEF estimated Pol3 coverage is equivalent to estimated coverage with three doses of IPV. For countries with a sequential schedule, estimated Pol3 coverage is based on that for the 3rd dose of polio vaccine regardless of vaccine type.

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

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

RCV1: percentage of surviving infants who received the 1st dose of rubella containing vaccine. Coverage estimates are based on WHO and UNICEF estimates of coverage for the dose of measles containing vaccine that corresponds to the first measles-rubella combination vaccine. Nationally reported coverage of RCV is not taken into consideration nor are the data represented in the accompanying graph and data table.

HepBB: percentage of births which received a dose of hepatitis B vaccine within 24 hours of delivery. Estimates of hepatitis B birth dose coverage are produced only for countries with a universal birth dose policy. Estimates are not produced for countries that recommend a birth dose to infants born to HepB virus-infected mothers only or where there is insufficient information to determine whether vaccination is within 24 hours of birth.

HepB3: percentage of surviving infants who received the 3rd dose of hepatitis B containing vaccine following the birth dose.

Hib3: percentage of surviving infants who received the 3rd dose of Haemophilus influenzae type b containing vaccine.

RotaC: percentage of surviving infants who received the final recommended dose of rotavirus vaccine, which can be either the 2nd or the 3rd dose depending on the vaccine.

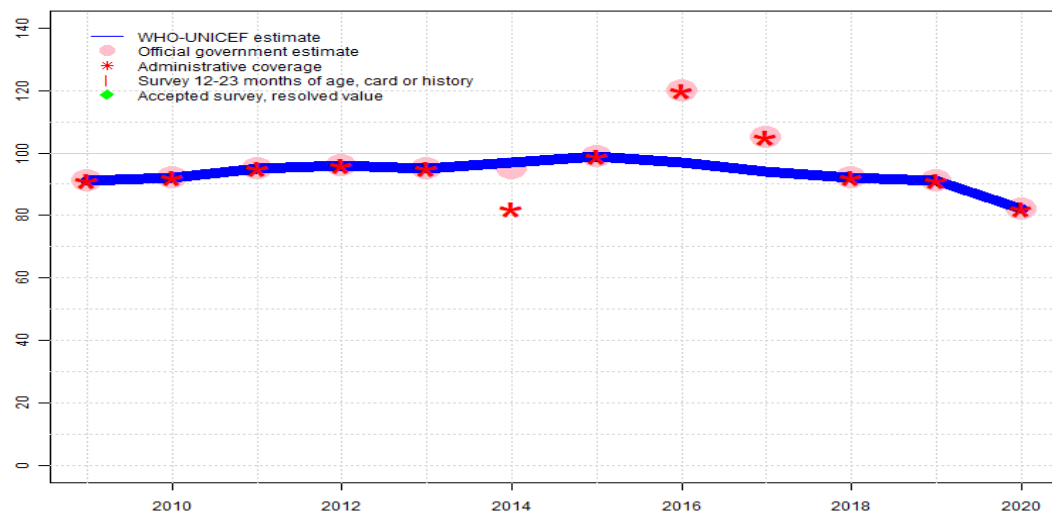
PcV3: percentage of surviving infants who received the 3rd dose of pneumococcal conjugate vaccine. In countries where the national schedule recommends two doses during infancy and a booster dose at 12 months or later based on the epidemiology of disease in the country, coverage estimates may reflect the percentage of surviving infants who received two doses of PcV prior to the 1st birthday.

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

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Venezuela (Bolivarian Republic of) - BCG

VEN - BCG



	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Estimate	91	92	95	96	95	97	99	97	94	92	91	82
Estimate GoC	●●	●●	●●	●●	●●	●	●●	●	●	●●	●●	●●
Official	91	92	95	96	95	95	99	120	105	92	91	82
Administrative	91	92	95	96	95	82	99	120	105	92	91	82
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: 2020 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.

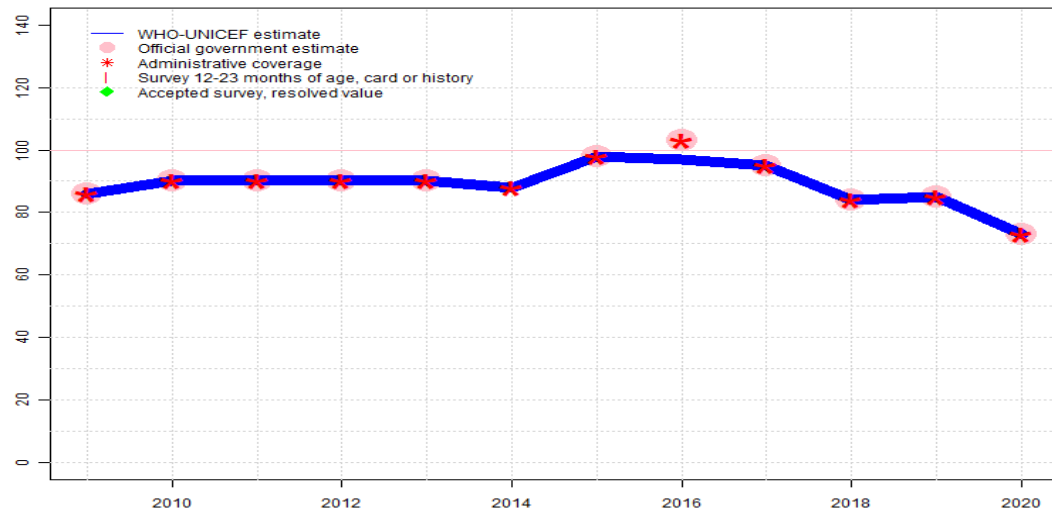
In all cases these estimates should be used with caution and should be assessed in light of the objective for which they are being used.

Description:

- 2020: Estimate based on coverage reported by national government. Reported data reflects stresses affecting the health system. Programme reports an eight month vaccine stock-out of disposable syringes, five months for reconstitution syringes and of unknown duration for AD syringes at national and subnational levels. No nationally representative household survey within the last 5 years. WHO and UNICEF recommend a high-quality survey to confirm reported levels of coverage. GoC=R+ D+
- 2019: Estimate based on coverage reported by national government. GoC=R+ D+
- 2018: Estimate based on coverage reported by national government. Decline of reported data likely reflects disruption of health services due to economic and humanitarian crisis. Programme reports stock-out of vaccine delivery supplies (syringes). GoC=R+ D+
- 2017: Estimate based on interpolation between data reported by national government. Reported data excluded because 105 percent greater than 100 percent. Programme reports four month stock-out of syringes. Programme reports six month vaccine stock-out at national level. Estimate challenged by: D-
- 2016: Estimate based on interpolation between data reported by national government. Reported data excluded because 120 percent greater than 100 percent. Reported data excluded due to an increase from 99 percent to 120 percent with decrease 105 percent. Estimate challenged by: D-
- 2015: Estimate based on coverage reported by national government. GoC=R+ D+
- 2014: Estimate based on interpolation between data reported by national government. Reported data excluded due to decline in reported coverage from 95 percent to 82 percent with increase to 99 percent. Reported official estimates are inconsistent with other vaccines and unexplained adjustment from the administrative coverage. Estimate challenged by: D-
- 2013: Estimate based on coverage reported by national government. GoC=R+ D+
- 2012: Estimate based on coverage reported by national government. GoC=R+ D+
- 2011: Estimate based on coverage reported by national government. GoC=R+ D+
- 2010: Estimate based on coverage reported by national government. GoC=R+ D+
- 2009: Estimate based on coverage reported by national government. GoC=R+ D+

Venezuela (Bolivarian Republic of) - DTP1

VEN - DTP1



Description:

- 2020: Estimate based on coverage reported by national government. Reported data reflects stresses affecting the health system. Programme reports an eight month vaccine stock-out of disposable syringes, five months for reconstitution syringes and of unknown duration for AD syringes at national and subnational levels. No nationally representative household survey within the last 5 years. WHO and UNICEF recommend a high-quality survey to confirm reported levels of coverage. Programme reports a two month vaccine stock-out at national and subnational levels. Estimate based on reported data. GoC=R+ D+
- 2019: Estimate based on coverage reported by national government. GoC=R+ D+
- 2018: Estimate based on coverage reported by national government. Decline of reported data likely reflects disruption of health services due to economic and humanitarian crisis. Programme reports stock-out of vaccine delivery supplies (syringes). GoC=R+ D+
- 2017: Estimate based on coverage reported by national government. Programme reports four month stock-out of syringes. Programme reports five month vaccine stock-out at national level. GoC=R+ D+
- 2016: Estimate based on interpolation between data reported by national government. Reported data excluded because 103 percent greater than 100 percent. Programme reports national level stock-outs for unspecified duration. GoC=R+ D+
- 2015: Estimate based on coverage reported by national government. Increase in reported administrative coverage due in part to a change in the population source. Programme is now using results from the 2011 census. GoC=R+ D+
- 2014: Estimate based on reported administrative data. GoC=R+ D+
- 2013: Estimate based on coverage reported by national government. GoC=R+ D+
- 2012: Estimate based on coverage reported by national government. GoC=R+ D+
- 2011: Estimate based on coverage reported by national government. GoC=R+ D+
- 2010: Estimate based on coverage reported by national government. GoC=R+ D+
- 2009: Estimate based on coverage reported by national government. GoC=R+ D+

	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Estimate	86	90	90	90	90	88	98	97	95	84	85	73
Estimate GoC	●●	●●	●●	●●	●●	●●	●●	●●	●●	●●	●●	●●
Official	86	90	90	90	90	NA	98	103	95	84	85	73
Administrative	86	90	90	90	90	88	98	103	95	84	85	73
Survey	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

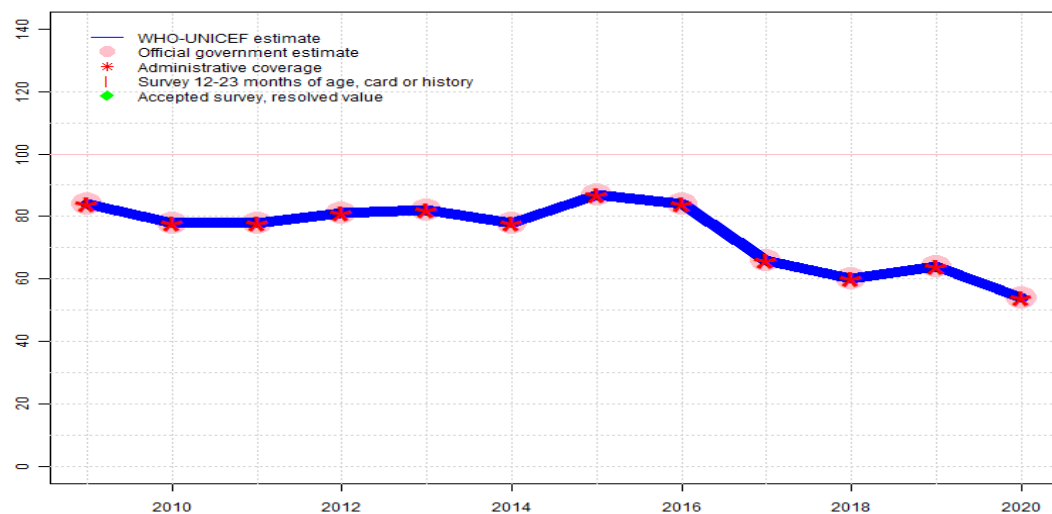
The WHO and UNICEF estimates of national immunization coverage (wuenic) are based on data and information that are of varying, and, in some instances, unknown quality. Beginning with the 2011 revision we describe the grade of confidence (GoC) we have in these estimates. As there is no underlying probability 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: 2020 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.

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Venezuela (Bolivarian Republic of) - DTP3

VEN - DTP3



	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Estimate	84	78	78	81	82	78	87	84	66	60	64	54
Estimate GoC	●●	●●	●●	●●	●●	●●	●●	●●	●●	●●	●●	●●
Official	84	78	78	81	82	78	87	84	66	60	64	54
Administrative	84	78	78	81	82	78	87	84	66	60	64	54
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: 2020 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.

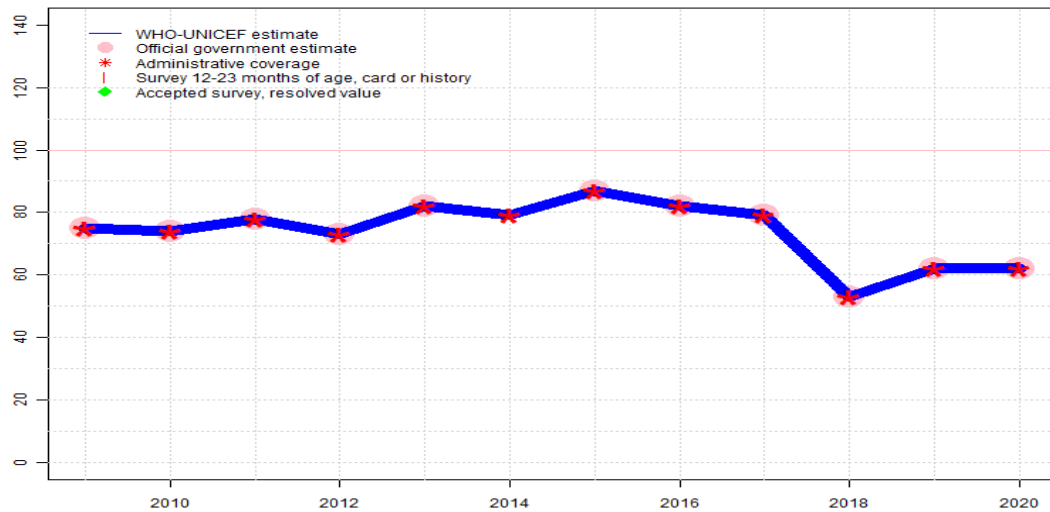
In all cases these estimates should be used with caution and should be assessed in light of the objective for which they are being used.

Description:

- 2020: Estimate based on coverage reported by national government. Reported data reflects stresses affecting the health system. Programme reports an eight month vaccine stock-out of disposable syringes, five months for reconstitution syringes and of unknown duration for AD syringes at national and subnational levels. No nationally representative household survey within the last 5 years. WHO and UNICEF recommend a high-quality survey to confirm reported levels of coverage. Programme reports a two month vaccine stock-out at national and subnational levels. GoC=R+ D+
- 2019: Estimate based on coverage reported by national government. GoC=R+ D+
- 2018: Estimate based on coverage reported by national government. Decline of reported data likely reflects disruption of health services due to economic and humanitarian crisis. Programme reports stock-out of vaccine delivery supplies (syringes). GoC=R+ D+
- 2017: Estimate based on coverage reported by national government. Programme reports four month stock-out of syringes. Programme reports five month vaccine stock-out at national level. GoC=R+ D+
- 2016: Estimate based on coverage reported by national government. Programme reports national level stock-outs for unspecified duration. GoC=R+ D+
- 2015: Estimate based on coverage reported by national government. Increase in reported administrative coverage due in part to a change in the population source. Programme is now using results from the 2011 census. GoC=R+ D+
- 2014: Estimate based on coverage reported by national government. GoC=R+ D+
- 2013: Estimate based on coverage reported by national government. GoC=R+ D+
- 2012: Estimate based on coverage reported by national government. GoC=R+ D+
- 2011: Estimate based on coverage reported by national government. GoC=R+ D+
- 2010: Estimate based on coverage reported by national government. GoC=R+ D+
- 2009: Estimate based on coverage reported by national government. Coverage levels recover after shortages in the preceding year. GoC=R+ D+

Venezuela (Bolivarian Republic of) - Pol3

VEN - Pol3



Description:

- 2020: Estimate based on coverage reported by national government. Reported data reflects stresses affecting the health system. Programme reports an eight month vaccine stock-out of disposable syringes, five months for reconstitution syringes and of unknown duration for AD syringes at national and subnational levels. No nationally representative household survey within the last 5 years. WHO and UNICEF recommend a high-quality survey to confirm reported levels of coverage. GoC=R+ D+
- 2019: Estimate based on coverage reported by national government. GoC=R+ D+
- 2018: Estimate based on coverage reported by national government. Decline of reported data likely reflects disruption of health services due to economic and humanitarian crisis. Programme reports stock-out of vaccine delivery supplies (syringes). GoC=R+ D+
- 2017: Estimate based on coverage reported by national government. Programme reports four month stock-out of syringes. Programme reports five month vaccine stock-out at national level. GoC=R+ D+
- 2016: Estimate based on coverage reported by national government. GoC=R+ D+
- 2015: Estimate based on coverage reported by national government. Increase in reported administrative coverage due in part to a change in the population source. Programme is now using results from the 2011 census. GoC=R+ D+
- 2014: Estimate based on reported administrative data. GoC=R+ D+
- 2013: Estimate based on coverage reported by national government. GoC=R+ D+
- 2012: Estimate based on coverage reported by national government. GoC=R+ D+
- 2011: Estimate based on coverage reported by national government. GoC=R+ D+
- 2010: Estimate based on coverage reported by national government. GoC=R+ D+
- 2009: Estimate based on coverage reported by national government. GoC=R+ D+

	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Estimate	75	74	78	73	82	79	87	82	79	53	62	62
Estimate GoC	●●	●●	●●	●●	●●	●●	●●	●●	●●	●●	●●	●●
Official	75	74	78	73	82	NA	87	82	79	53	62	62
Administrative	75	74	78	73	82	79	87	82	79	53	62	62
Survey	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

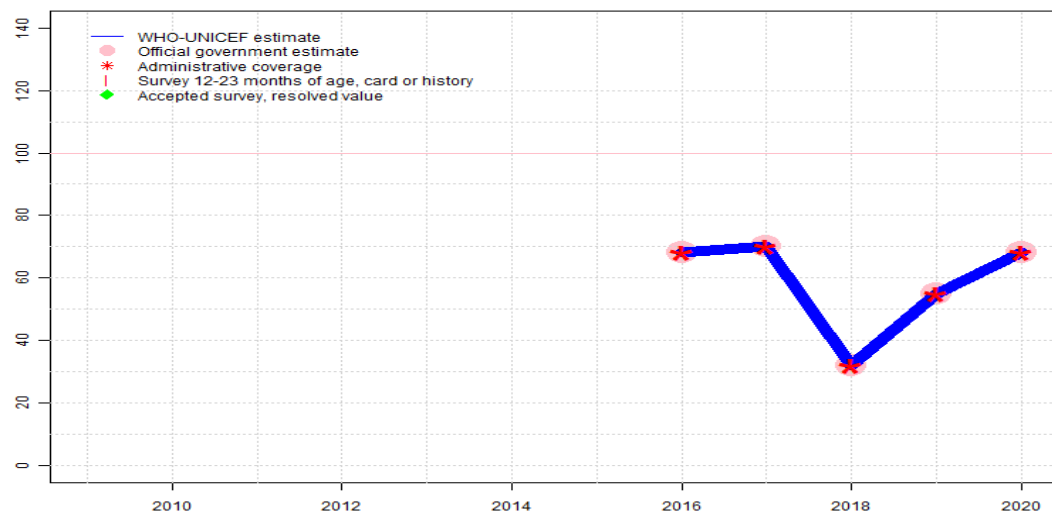
The WHO and UNICEF estimates of national immunization coverage (wuenic) are based on data and information that are of varying, and, in some instances, unknown quality. Beginning with the 2011 revision we describe the grade of confidence (GoC) we have in these estimates. As there is no underlying probability 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: 2020 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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Venezuela (Bolivarian Republic of) - IPV1

VEN - IPV1



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).

2020: Estimate based on coverage reported by national government. Reported data reflects stresses affecting the health system. Programme reports an eight month vaccine stock-out of disposable syringes, five months for reconstitution syringes and of unknown duration for AD syringes at national and subnational levels. No nationally representative household survey within the last 5 years. WHO and UNICEF recommend a high-quality survey to confirm reported levels of coverage. Estimate based on reported data. GoC=R+ D+

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

2018: Estimate based on coverage reported by national government. Decline of reported data likely reflects disruption of health services due to economic and humanitarian crisis. Programme reports stock-out of vaccine delivery supplies (syringes). GoC=R+ D+

2017: Estimate based on coverage reported by national government. Programme reports four month stock-out of syringes. Programme reports six month vaccine stock-out at national level. GoC=R+ D+

2016: Estimate based on coverage reported by national government. IPV introduced in 2016. Programme reports 4 month stock-outs. GoC=R+ D+

	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Estimate	NA	NA	NA	NA	NA	NA	NA	68	70	32	55	68
Estimate GoC	NA	NA	NA	NA	NA	NA	NA	●●	●●	●●	●●	●●
Official	NA	NA	NA	NA	NA	NA	NA	68	70	32	55	68
Administrative	NA	NA	NA	NA	NA	NA	NA	68	70	32	55	68
Survey	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

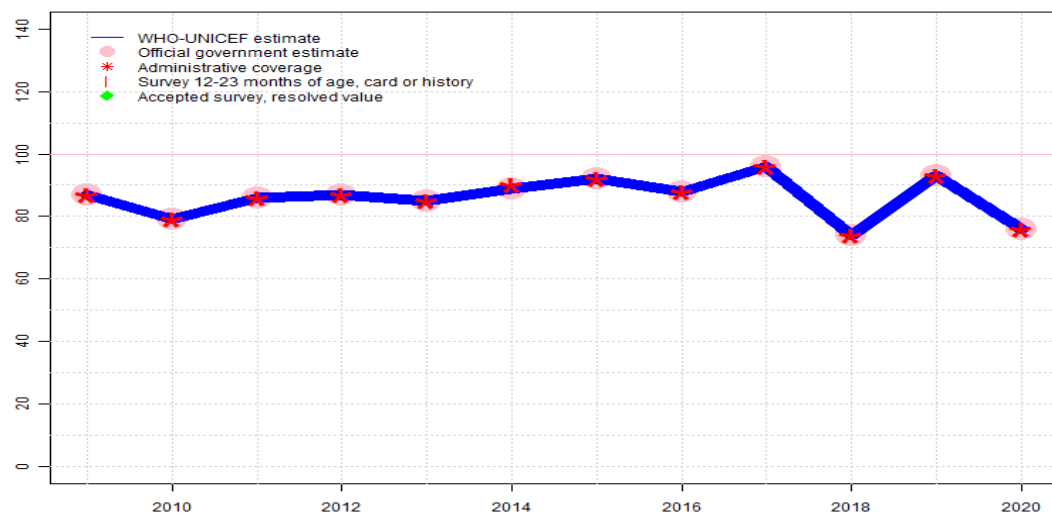
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Venezuela (Bolivarian Republic of) - MCV1

VEN - MCV1



Description:

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- 2019: Estimate based on coverage reported by national government. Estimate based on reported data following recovery from prior year vaccine stock-out. GoC=R+ D+
- 2018: Estimate based on coverage reported by national government. Programme reports six month vaccine stock-out at national level. Decline of reported data likely reflects disruption of health services due to economic and humanitarian crisis. Programme reports stock-out of vaccine delivery supplies (syringes). GoC=R+ D+
- 2017: Estimate based on coverage reported by national government. Programme reports four month stock-out of syringes. GoC=R+ D+
- 2016: Estimate based on coverage reported by national government. GoC=R+ D+
- 2015: Estimate based on coverage reported by national government. Increase in reported administrative coverage due in part to a change in the population source. Programme is now using results from the 2011 census. GoC=R+ D+
- 2014: Estimate based on coverage reported by national government. GoC=R+ D+
- 2013: Estimate based on coverage reported by national government. GoC=R+ D+
- 2012: Estimate based on coverage reported by national government. GoC=R+ D+
- 2011: Estimate based on coverage reported by national government. GoC=R+ D+
- 2010: Estimate based on coverage reported by national government. GoC=R+ D+
- 2009: Estimate based on coverage reported by national government. GoC=R+ D+

	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Estimate	87	79	86	87	85	89	92	88	96	74	93	76
Estimate GoC	●●	●●	●●	●●	●●	●●	●●	●●	●●	●●	●●	●●
Official	87	79	86	87	85	89	92	88	96	74	93	76
Administrative	87	79	86	87	85	90	92	88	96	74	93	76
Survey	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

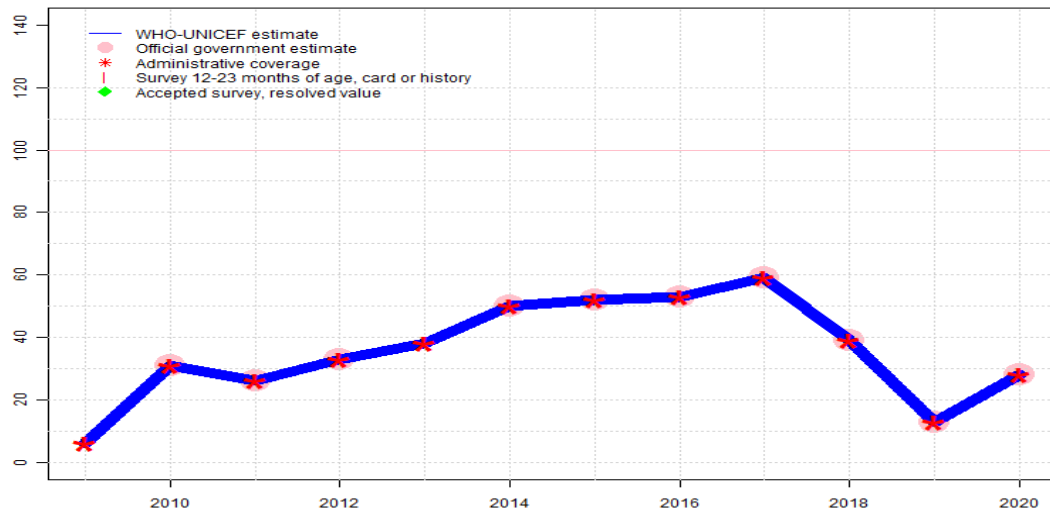
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- There are no directly supporting data; or data from at least one source; [R-], [D-], [S-]; challenge the estimate.

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Venezuela (Bolivarian Republic of) - MCV2

VEN - MCV2



	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Estimate	6	31	26	33	38	50	52	53	59	39	13	28
Estimate GoC	••	••	••	••	••	••	••	••	••	••	••	••
Official	NA	31	26	33	NA	50	52	53	59	39	13	28
Administrative	6	31	26	33	38	50	52	53	59	39	13	28
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: 2020 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.

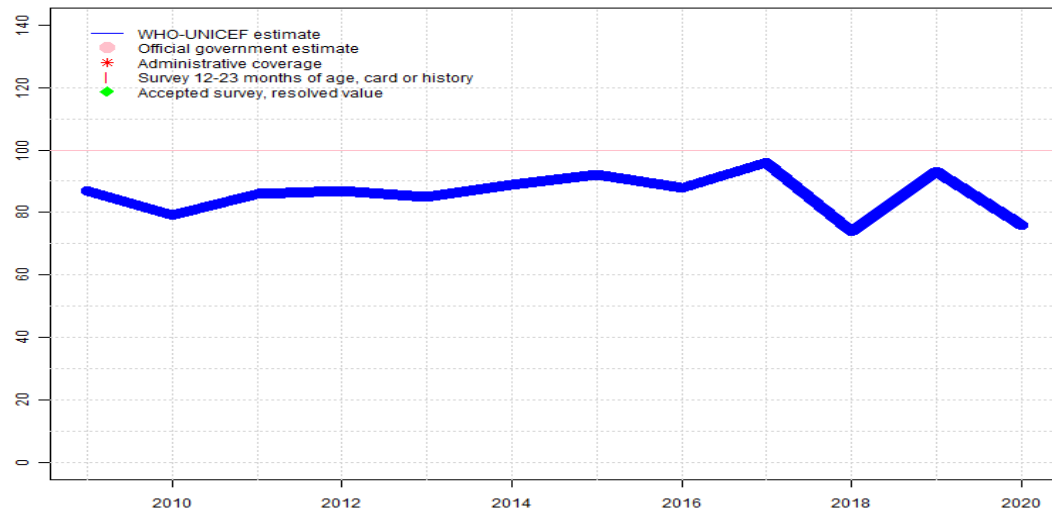
Description:

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

- 2020: Estimate based on coverage reported by national government. Reported data reflects stresses affecting the health system. Programme reports an eight month vaccine stock-out of disposable syringes, five months for reconstitution syringes and of unknown duration for AD syringes at national and subnational levels. No nationally representative household survey within the last 5 years. WHO and UNICEF recommend a high-quality survey to confirm reported levels of coverage. Estimate based on reported data. GoC=R+ D+
- 2019: Estimate based on coverage reported by national government. . GoC=R+ D+
- 2018: Estimate based on coverage reported by national government. Programme reports six month vaccine stock-out at national level. Decline of reported data likely reflects disruption of health services due to economic and humanitarian crisis. Programme reports stock-out of vaccine delivery supplies (syringes). GoC=R+ D+
- 2017: Estimate based on coverage reported by national government. Programme reports four month stock-out of syringes. GoC=R+ D+
- 2016: Estimate based on coverage reported by national government. GoC=R+ D+
- 2015: Estimate based on coverage reported by national government. Increase in reported administrative coverage due in part to a change in the population source. Programme is now using results from the 2011 census. GoC=R+ D+
- 2014: Estimate based on coverage reported by national government. Second dose of measles containing vaccine introduction continues throughout the country. GoC=R+ D+
- 2013: Estimate based on reported administrative estimate. GoC=R+ D+
- 2012: Estimate based on coverage reported by national government. GoC=R+ D+
- 2011: Estimate based on coverage reported by national government. GoC=R+ D+
- 2010: Estimate based on coverage reported by national government. GoC=R+ D+
- 2009: Estimate based on reported administrative estimate. GoC=R+ D+

Venezuela (Bolivarian Republic of) - RCV1

VEN - RCV1



	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Estimate	87	79	86	87	85	89	92	88	96	74	93	76
Estimate GoC	●●	●●	●●	●●	●●	●●	●●	●●	●●	●●	●●	●●
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	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: 2020 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.

2020: Estimate based on estimated MCV1. Reported data reflects stresses affecting the health system. Programme reports an eight month vaccine stock-out of disposable syringes, five months for reconstitution syringes and of unknown duration for AD syringes at national and subnational levels. No nationally representative household survey within the last 5 years. WHO and UNICEF recommend a high-quality survey to confirm reported levels of coverage. GoC=R+ D+

2019: Estimate based on estimated MCV1. GoC=R+ D+

2018: Estimate based on estimated MCV1. Programme reports six month vaccine stock-out at national level. Decline of reported data likely reflects disruption of health services due to economic and humanitarian crisis. Programme reports stock-out of vaccine delivery supplies (syringes). GoC=R+ D+

2017: Estimate based on estimated MCV1. Programme reports four month stock-out of syringes. GoC=R+ D+

2016: Estimate based on estimated MCV1. GoC=R+ D+

2015: Estimate based on estimated MCV1. GoC=R+ D+

2014: Estimate based on estimated MCV1. GoC=R+ D+

2013: Estimate based on estimated MCV1. GoC=R+ D+

2012: Estimate based on estimated MCV1. GoC=R+ D+

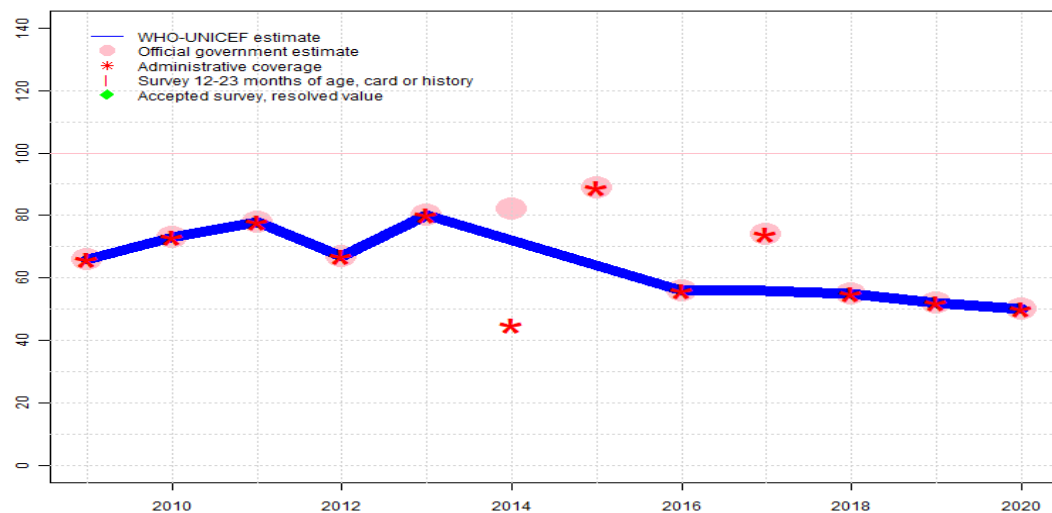
2011: Estimate based on estimated MCV1. GoC=R+ D+

2010: Estimate based on estimated MCV1. GoC=R+ D+

2009: Estimate based on estimated MCV1. GoC=R+ D+

Venezuela (Bolivarian Republic of) - HepBB

VEN - HepBB



	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Estimate	66	73	78	67	80	72	64	56	56	55	52	50
Estimate GoC	••	••	••	••	••	•	•	••	•	••	••	••
Official	66	73	78	67	80	82	89	56	74	55	52	50
Administrative	66	73	78	67	80	45	89	56	74	55	52	50
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: 2020 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.

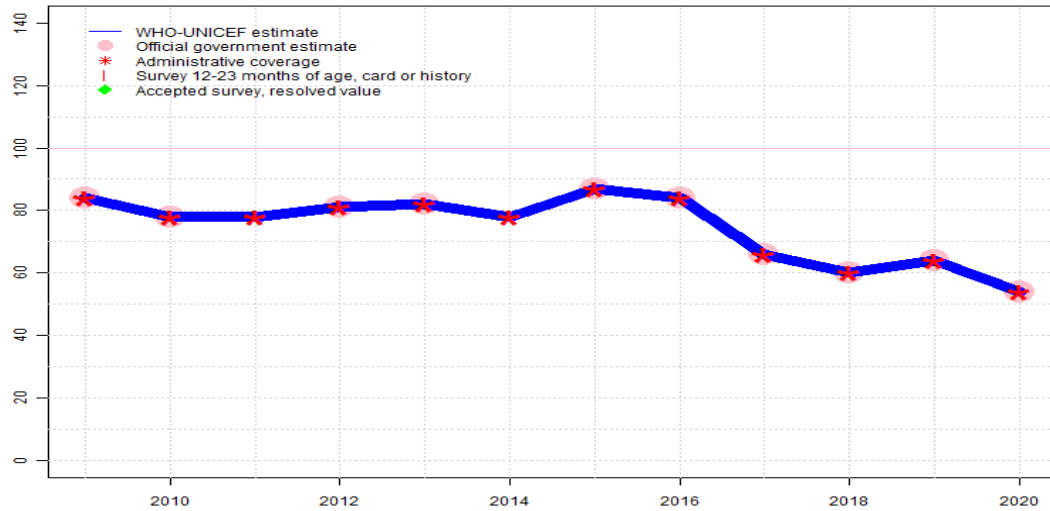
In all cases these estimates should be used with caution and should be assessed in light of the objective for which they are being used.

Description:

- 2020: Estimate based on coverage reported by national government. Reported data reflects stresses affecting the health system. Programme reports an eight month vaccine stock-out of disposable syringes, five months for reconstitution syringes and of unknown duration for AD syringes at national and subnational levels. No nationally representative household survey within the last 5 years. WHO and UNICEF recommend a high-quality survey to confirm reported levels of coverage. Programme reports a four month vaccine stock-out at national and subnational levels. GoC=R+ D+
- 2019: Estimate based on coverage reported by national government. GoC=R+ D+
- 2018: Estimate based on coverage reported by national government. Decline of reported data likely reflects disruption of health services due to economic and humanitarian crisis. Programme reports stock-out of vaccine delivery supplies (syringes). GoC=R+ D+
- 2017: Estimate based on interpolation between reported values. Reported data excluded due to an increase from 56 percent to 74 percent with decrease 55 percent. Programme reports four month stock-out of syringes. Estimate challenged by: D-
- 2016: Estimate based on coverage reported by national government. Reported coverage in 2016 reflects doses delivered within 24 hours. Previous years are likely an overestimate of coverage within 24 hours. GoC=R+ D+
- 2015: Estimate based on interpolation between reported values. Reported data excluded due to an increase from 45 percent to 89 percent with decrease 56 percent. Estimate challenged by: D-
- 2014: Estimate based on interpolation between reported values. Reported data excluded due to decline in reported coverage from 80 percent to 45 percent with increase to 89 percent. Programme reports one month stock-out of Hep B vaccine at national level. Reported official estimates are inconsistent with other vaccines and unexplained adjustment from the administrative coverage. Estimate challenged by: D-
- 2013: Estimate based on coverage reported by national government. Estimate is based on official government estimate. GoC=R+ D+
- 2012: Estimate based on coverage reported by national government. One month stock-out reported at national level. GoC=R+ D+
- 2011: Estimate based on coverage reported by national government. GoC=R+ D+
- 2010: Estimate based on coverage reported by national government. GoC=R+ D+
- 2009: Estimate based on coverage reported by national government. GoC=R+ D+

Venezuela (Bolivarian Republic of) - HepB3

VEN - HepB3



Description:

- 2020: Estimate based on coverage reported by national government. Reported data reflects stresses affecting the health system. Programme reports an eight month vaccine stock-out of disposable syringes, five months for reconstitution syringes and of unknown duration for AD syringes at national and subnational levels. No nationally representative household survey within the last 5 years. WHO and UNICEF recommend a high-quality survey to confirm reported levels of coverage. Programme reports a two month vaccine stock-out at national and subnational levels. GoC=R+ D+
- 2019: Estimate based on coverage reported by national government. GoC=R+ D+
- 2018: Estimate based on coverage reported by national government. Decline of reported data likely reflects disruption of health services due to economic and humanitarian crisis. Programme reports stock-out of vaccine delivery supplies (syringes). GoC=R+ D+
- 2017: Estimate based on coverage reported by national government. Programme reports four month stock-out of syringes. Programme reports five month vaccine stock-out at national level. GoC=R+ D+
- 2016: Estimate based on coverage reported by national government. GoC=R+ D+
- 2015: Estimate based on coverage reported by national government. GoC=R+ D+
- 2014: Estimate is based on coverage for third dose of DTP containing vaccine. Estimate challenged by: R-
- 2013: Estimate based on coverage reported by national government. GoC=R+ D+
- 2012: Estimate based on coverage reported by national government. GoC=R+ D+
- 2011: Estimate based on reported administrative estimate. GoC=R+ D+
- 2010: Estimate based on coverage reported by national government. GoC=R+ D+
- 2009: Estimate based on coverage reported by national government. Coverage levels recover after shortages in the preceding year. GoC=R+ D+

	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Estimate	84	78	78	81	82	78	87	84	66	60	64	54
Estimate GoC	●●	●●	●●	●●	●●	●	●●	●●	●●	●●	●●	●●
Official	84	78	NA	81	82	NA	87	84	66	60	64	54
Administrative	84	78	78	81	82	78	87	84	66	60	64	54
Survey	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

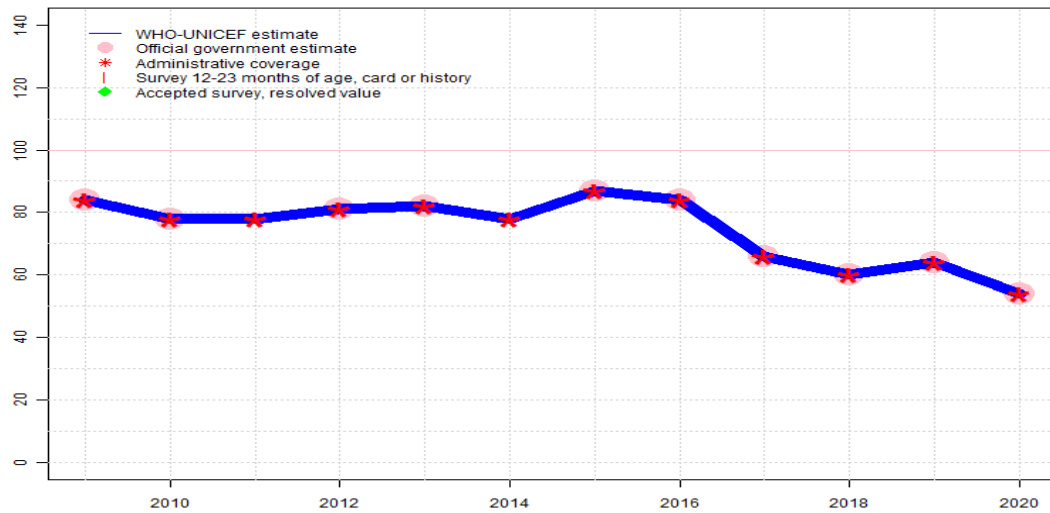
The WHO and UNICEF estimates of national immunization coverage (wuenic) are based on data and information that are of varying, and, in some instances, unknown quality. Beginning with the 2011 revision we describe the grade of confidence (GoC) we have in these estimates. As there is no underlying probability 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: 2020 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.

Venezuela (Bolivarian Republic of) - Hib3

VEN - Hib3



Description:

- 2020: Estimate based on coverage reported by national government. Reported data reflects stresses affecting the health system. Programme reports an eight month vaccine stock-out of disposable syringes, five months for reconstitution syringes and of unknown duration for AD syringes at national and subnational levels. No nationally representative household survey within the last 5 years. WHO and UNICEF recommend a high-quality survey to confirm reported levels of coverage. Programme reports a two month vaccine stock-out at national and subnational levels. GoC=R+ D+
- 2019: Estimate based on coverage reported by national government. GoC=R+ D+
- 2018: Estimate based on coverage reported by national government. Decline of reported data likely reflects disruption of health services due to economic and humanitarian crisis. Programme reports stock-out of vaccine delivery supplies (syringes). GoC=R+ D+
- 2017: Estimate based on coverage reported by national government. Programme reports four month stock-out of syringes. Programme reports five month vaccine stock-out at national level. GoC=R+ D+
- 2016: Estimate based on coverage reported by national government. GoC=R+ D+
- 2015: Estimate based on coverage reported by national government. GoC=R+ D+
- 2014: Estimate is based on coverage for third dose of DTP containing vaccine. Estimate challenged by: R-
- 2013: Estimate based on coverage reported by national government. GoC=R+ D+
- 2012: Estimate based on coverage reported by national government. GoC=R+ D+
- 2011: Estimate based on reported administrative estimate. GoC=R+ D+
- 2010: Estimate based on coverage reported by national government. GoC=R+ D+
- 2009: Estimate based on coverage reported by national government. Coverage levels recover after shortages in the preceding year. GoC=R+ D+

	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Estimate	84	78	78	81	82	78	87	84	66	60	64	54
Estimate GoC	●●	●●	●●	●●	●●	●	●●	●●	●●	●●	●●	●●
Official	84	78	NA	81	82	NA	87	84	66	60	64	54
Administrative	84	78	78	81	82	78	87	84	66	60	64	54
Survey	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

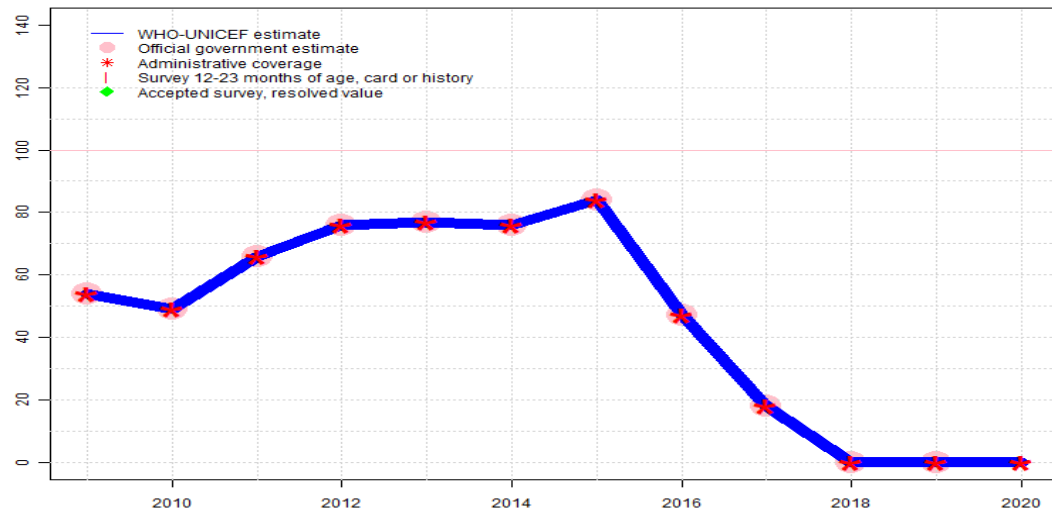
The WHO and UNICEF estimates of national immunization coverage (wuenic) are based on data and information that are of varying, and, in some instances, unknown quality. Beginning with the 2011 revision we describe the grade of confidence (GoC) we have in these estimates. As there is no underlying probability 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: 2020 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.

Venezuela (Bolivarian Republic of) - RotaC

VEN - RotaC



Description:

- 2020: Estimate based on reported administrative estimate. Reported data reflects stresses affecting the health system. Programme reports an eight month vaccine stock-out of disposable syringes, five months for reconstitution syringes and of unknown duration for AD syringes at national and subnational levels. No nationally representative household survey within the last 5 years. WHO and UNICEF recommend a high-quality survey to confirm reported levels of coverage. GoC=R+
- 2019: Estimate based on coverage reported by national government. Programme reports twelve months of vaccine stock-out. GoC=R+ D+
- 2018: Vaccine not available in 2018. Decline of reported data likely reflects disruption of health services due to economic and humanitarian crisis. Programme reports stock-out of vaccine delivery supplies (syringes). Estimate challenged by: R-
- 2017: Estimate based on coverage reported by national government. Programme reports four month stock-out of syringes. Vaccine not available in 2017. GoC=R+ D+
- 2016: Estimate based on coverage reported by national government. Programme reports national level stock-outs for 3 months period.. GoC=R+ D+
- 2015: Estimate based on coverage reported by national government. GoC=R+ D+
- 2014: Estimate based on coverage reported by national government. GoC=R+ D+
- 2013: Estimate based on coverage reported by national government. GoC=R+ D+
- 2012: Estimate based on coverage reported by national government. GoC=R+ D+
- 2011: Estimate based on coverage reported by national government. GoC=R+ D+
- 2010: Estimate based on coverage reported by national government. GoC=R+ D+
- 2009: Estimate based on coverage reported by national government. GoC=R+ D+

	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Estimate	54	49	66	76	77	76	84	47	18	0	0	0
Estimate GoC	••	••	••	••	••	••	••	••	••	•	••	••
Official	54	49	66	76	77	76	84	47	18	0	0	NA
Administrative	54	49	66	76	77	76	84	47	18	0	0	0
Survey	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

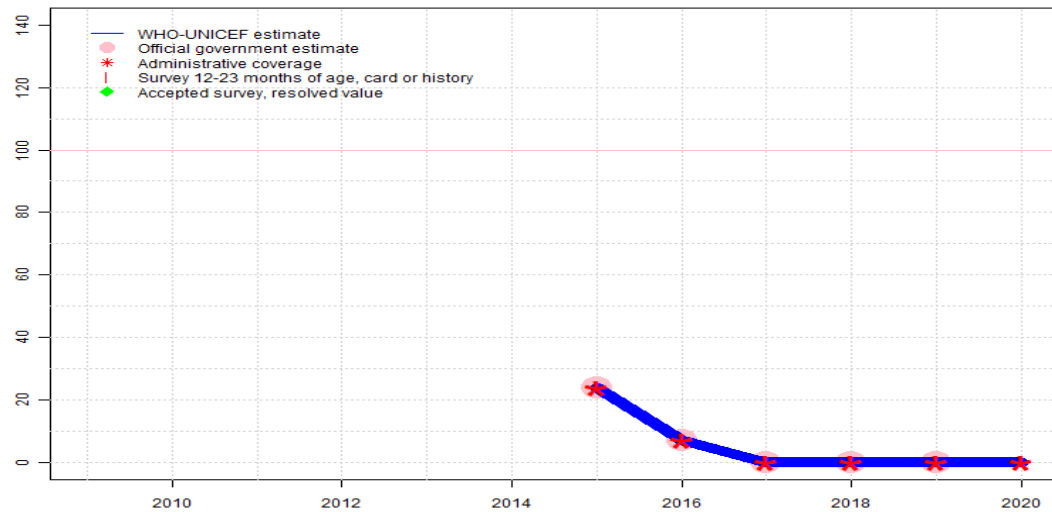
The WHO and UNICEF estimates of national immunization coverage (wuenic) are based on data and information that are of varying, and, in some instances, unknown quality. Beginning with the 2011 revision we describe the grade of confidence (GoC) we have in these estimates. As there is no underlying probability 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: 2020 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.

Venezuela (Bolivarian Republic of) - PcV3

VEN - PcV3



Description:

- 2020: Estimate based on reported administrative estimate. Reported data reflects stresses affecting the health system. Programme reports an eight month vaccine stock-out of disposable syringes, five months for reconstitution syringes and of unknown duration for AD syringes at national and subnational levels. No nationally representative household survey within the last 5 years. WHO and UNICEF recommend a high-quality survey to confirm reported levels of coverage. GoC=R+
- 2019: Estimate based on coverage reported by national government. Programme reports twelve months of vaccine stock-out. GoC=R+ D+
- 2018: Vaccine not available in 2018. Decline of reported data likely reflects disruption of health services due to economic and humanitarian crisis. Programme reports stock-out of vaccine delivery supplies (syringes). Estimate challenged by: R-
- 2017: Estimate based on coverage reported by national government. Programme reports four month stock-out of syringes. Vaccine not available in 2017. GoC=R+ D+
- 2016: Estimate based on coverage reported by national government. Programme reports national level stock-outs for 12 months period.. GoC=R+ D+
- 2015: Estimate based on coverage reported by national government. Pneumococcal conjugate vaccine introduced in 2014. Reporting began in 2015. GoC=R+ D+

	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Estimate	NA	NA	NA	NA	NA	NA	24	7	0	0	0	0
Estimate GoC	NA	NA	NA	NA	NA	NA	••	••	••	•	••	••
Official	NA	NA	NA	NA	NA	NA	24	7	0	0	0	NA
Administrative	NA	NA	NA	NA	NA	NA	24	7	0	0	0	0
Survey	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

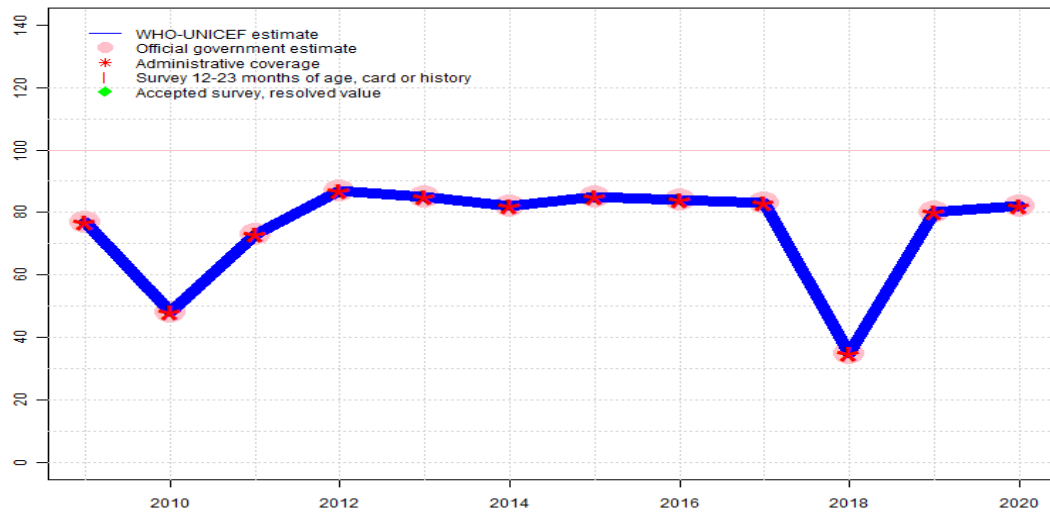
The WHO and UNICEF estimates of national immunization coverage (wuenic) are based on data and information that are of varying, and, in some instances, unknown quality. Beginning with the 2011 revision we describe the grade of confidence (GoC) we have in these estimates. As there is no underlying probability 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: 2020 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.

Venezuela (Bolivarian Republic of) - YFV

VEN - YFV



Description:

- 2020: Estimate based on coverage reported by national government. Reported data reflects stresses affecting the health system. Programme reports an eight month vaccine stock-out of disposable syringes, five months for reconstitution syringes and of unknown duration for AD syringes at national and subnational levels. No nationally representative household survey within the last 5 years. WHO and UNICEF recommend a high-quality survey to confirm reported levels of coverage. GoC=R+ D+
- 2019: Estimate based on coverage reported by national government. . GoC=R+ D+
- 2018: Estimate based on coverage reported by national government. Decline of reported data likely reflects disruption of health services due to economic and humanitarian crisis. Programme reports stock-out of vaccine delivery supplies (syringes). GoC=R+ D+
- 2017: Estimate based on coverage reported by national government. Programme reports four month stock-out of syringes. Programme reports ten month vaccine stock-out at national level. GoC=R+ D+
- 2016: Estimate based on coverage reported by national government. GoC=R+ D+
- 2015: Estimate based on coverage reported by national government. GoC=R+ D+
- 2014: Estimate based on coverage reported by national government. GoC=R+ D+
- 2013: Estimate based on coverage reported by national government. GoC=R+ D+
- 2012: Estimate based on coverage reported by national government. Estimate based on reported data. GoC=R+ D+
- 2011: Estimate based on coverage reported by national government. Despite continued stock-out of 2 months, yellow fever vaccine coverage increases. GoC=R+ D+
- 2010: Estimate based on coverage reported by national government. Twelve months long YFV stock-out reported. GoC=R+ D+
- 2009: Estimate based on coverage reported by national government. GoC=R+ D+

	2009	2010	2011	2012	2013	2014	2015	2016	2017	2018	2019	2020
Estimate	77	48	73	87	85	82	85	84	83	35	80	82
Estimate GoC	●●	●●	●●	●●	●●	●●	●●	●●	●●	●●	●●	●●
Official	77	48	73	87	85	82	85	84	83	35	80	82
Administrative	77	48	73	87	85	82	85	84	83	35	80	82
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: 2020 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.

Venezuela (Bolivarian Republic of) - survey details

1999 Encuesta MICS-Venezuela 2000

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	Card or History	90	12-23 m	-	-
DTP1	Card or History	88.2	12-23 m	-	-

DTP3	Card or History	58.6	12-23 m	-	-
MCV1	Card or History	57.2	12-23 m	-	-
Pol1	Card or History	81.1	12-23 m	-	-
Pol3	Card or History	39.9	12-23 m	-	-

Further information and estimates for previous years are available at:

<http://www.data.unicef.org/child-health/immunization>

<https://www.who.int/teams/immunization-vaccines-and-biologicals/immunization-analysis-and-insights/global-monitoring/data-statistics-and-graphics>