

Kazakhstan: WHO and UNICEF estimates of immunization coverage: 2024 revision

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

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

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

DATA SOURCES

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

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

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

ABBREVIATIONS AND DEFINITIONS

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

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

POL3: percentage of surviving infants who received the 3rd dose of polio containing vaccine. May be either oral or inactivated polio vaccine.

IPV1: percentage of surviving infants who received at least one dose of inactivated polio vaccine. In countries utilizing an immunization schedule recommending either (i) a primary series of three doses of oral polio vaccine (OPV) plus at least one dose of IPV where OPV is included in routine immunization and/or campaign or (ii) a sequential schedule of IPV followed by OPV, WHO and UNICEF estimates for IPV1 reflect coverage with at least one routine dose of IPV among infants < 1 year of age. For countries utilizing IPV containing vaccine only, i.e., no recommended dose of OPV, WHO and UNICEF estimate for IPV1 corresponds to coverage for the 1st dose of IPV.

Production of IPV coverage estimates, which begins in 2015, results in no change of the estimated coverage levels for the 3rd dose of polio (POL3). For countries recommending routine immunization with a primary series of three doses of IPV alone, WHO and UNICEF estimated POL3 coverage is equivalent to estimated coverage with three doses of IPV. For countries with a sequential schedule, estimated POL3 coverage is based on that for the 3rd dose of polio vaccine regardless of vaccine type.

IPV2: percentage of surviving infants who received a 2nd dose of inactivated polio vaccine. IPV2 coverage estimates produced for OPV using countries.

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

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

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

HEPB3: percentage of births which received a dose of hepatitis B vaccine within 24 hours of delivery. Estimates of hepatitis B birth dose coverage are produced only for countries with a universal birth dose policy. Estimates are not produced for countries that recommend a birth dose to infants born to HEPB virus-infected mothers only or where there is insufficient information to determine whether vaccination is within 24 hours of birth.

HEPB3: percentage of surviving infants who received the 3rd dose of hepatitis B containing vaccine following the birth dose.

HIB3: percentage of surviving infants who received the 3rd dose of Haemophilus influenzae type b containing vaccine.

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

PCV3: percentage of surviving infants who received the 3rd dose of pneumococcal conjugate vaccine. In countries where the national schedule recommends two doses during infancy and a booster dose at 12 months or later based on the epidemiology of disease in the country, coverage estimates may reflect the percentage of surviving infants who received two doses of PCV prior to the 1st birthday if coverage for the booster dose is not reported.

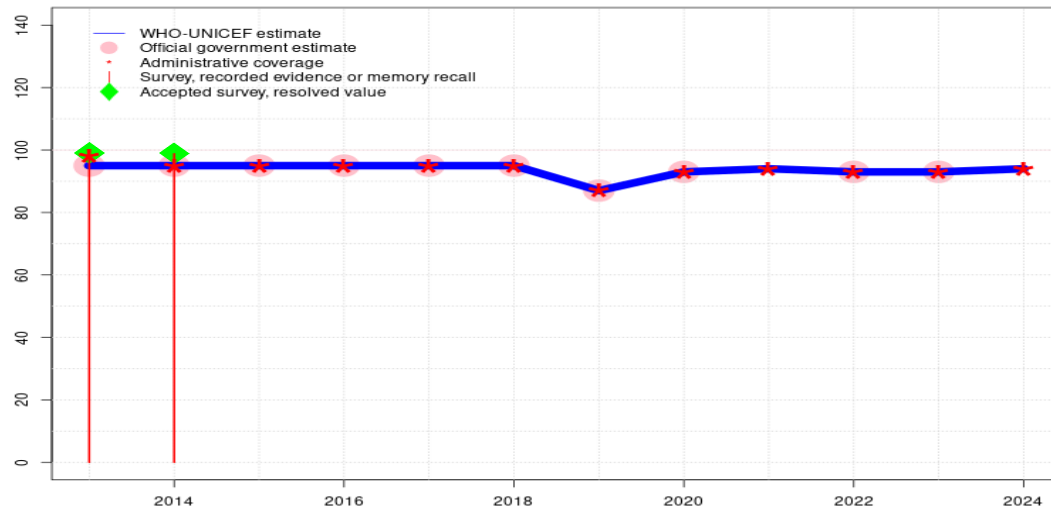
YFV: percentage of surviving infants who received one dose of yellow fever vaccine in countries where YFV is part of the national immunization schedule for children or is recommended in at risk areas; coverage estimates are annualized for the entire cohort of surviving infants.

MENGA: percentage of children who received one dose of meningococcal A conjugate vaccine. MENGA coverage estimates produced for countries in the meningitis belt of sub-Saharan Africa.

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Kazakhstan - BCG

KAZ - BCG



Description:

- 2024: Estimate informed by reported administrative data. WHO and UNICEF are aware of the ongoing 2024 Multiple Indicator Cluster Survey and await final results. Reported target population decline of 8 percent between 2023 and 2024. GoC=R+ D+
- 2023: Estimate informed by reported data. GoC=R+ D+
- 2022: Estimate informed by reported data. GoC=R+ D+
- 2021: Estimate informed by reported administrative data. Reported target population of live births is twenty-six percent higher than that of surviving infants, and also significantly higher than the live births projected by the United Nations Population Division. GoC=R+ D+
- 2020: Estimate informed by reported data. GoC=R+ D+
- 2019: Estimate informed by reported data. Programme reports one month vaccine stockout. GoC=R+ D+
- 2018: Estimate informed by reported data. GoC=R+ D+
- 2017: Estimate informed by reported data. GoC=R+ D+
- 2016: Estimate informed by reported data. GoC=R+ S+ D+
- 2015: Estimate informed by reported data. GoC=R+ S+ D+
- 2014: Estimate informed by reported data supported by survey.Survey evidence of 99 percent based on 1 survey(s). GoC=R+ S+ D+
- 2013: Estimate informed by reported data supported by survey.Survey evidence of 99 percent based on 1 survey(s). GoC=R+ S+ D+

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Estimate	95	95	95	95	95	95	87	93	94	93	93	94
Estimate GoC	●●●	●●●	●●●	●●●	●●	●●	●●	●●	●●	●●	●●	●●
Official	95	95	95	95	95	95	87	93	-	93	93	-
Administrative	98	95	95	95	95	95	87	93	94	93	93	94
Survey	99	99	-	-	-	-	-	-	-	-	-	-

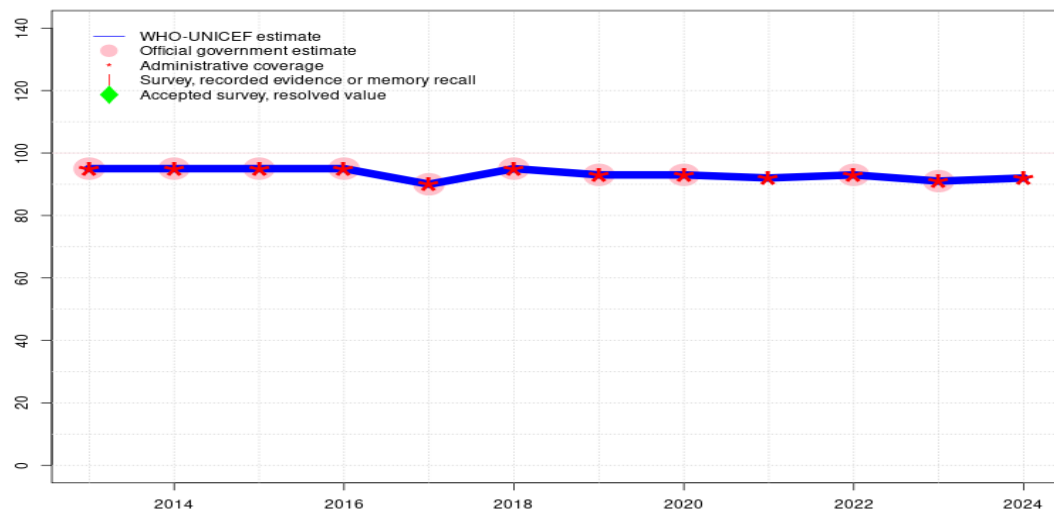
The WHO and UNICEF estimates of national immunization coverage (wuenic) are based on data and information that are of varying, and, in some instances, unknown quality. Beginning with the 2011 revision we describe the grade of confidence (GoC) we have in these estimates. As there is no underlying probability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

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Kazakhstan - HEPBB

KAZ - HEPBB



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- 2019: Estimate informed by reported data. GoC=R+ D+
- 2018: Estimate informed by reported data. GoC=R+ D+
- 2017: Estimate informed by reported data. Programme reports four months vaccine stockout at national level. 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. GoC=R+ D+
- 2013: Estimate informed by reported data. GoC=R+ D+

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Estimate	95	95	95	95	90	95	93	93	92	93	91	92
Estimate GoC	●●	●●	●●	●●	●●	●●	●●	●●	●●	●●	●●	●●
Official	95	95	95	95	90	95	93	93	-	93	91	-
Administrative	95	95	95	95	90	95	93	93	92	93	91	92
Survey	-	-	-	-	-	-	-	-	-	-	-	-

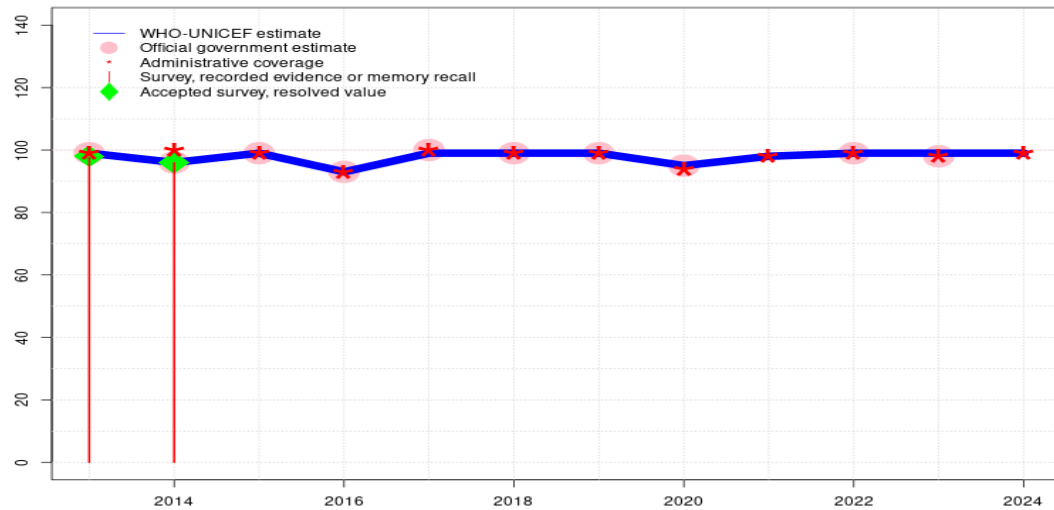
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- There are no directly supporting data; or data from at least one source; [R-], [D-], [S-]; challenge the estimate.

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Kazakhstan - DTP1

KAZ - DTP1



Description:

- 2024: Estimate informed by reported administrative data. WHO and UNICEF are aware of the ongoing 2024 Multiple Indicator Cluster Survey and await final results. Estimate challenged by: D-
- 2023: Estimate informed by estimated DTP3 coverage assuming zero dropout. Estimate challenged by: D-R-
- 2022: Estimate informed by reported data. Estimate challenged by: D-
- 2021: Estimate informed by reported administrative data. Estimate challenged by: D-
- 2020: Estimate informed by reported data. Estimate of 95 percent changed from previous revision value of 94 percent. Estimate challenged by: D-
- 2019: Estimate informed by reported data. Estimate challenged by: D-
- 2018: Estimate informed by reported data. Estimate challenged by: D-
- 2017: Estimate informed by estimated DTP3 coverage adjusted for dropout. Estimate challenged by: R-
- 2016: Estimate informed by reported data. Programme reports five months vaccine stockout at national level. Estimate challenged by: D-
- 2015: Estimate informed by reported data. Estimate challenged by: D-
- 2014: Estimate informed by reported data supported by survey. Survey evidence of 96 percent based on 1 survey(s). GoC=R+ S+ D+
- 2013: Estimate informed by reported data supported by survey. Survey evidence of 98 percent based on 1 survey(s). Estimate challenged by: D-

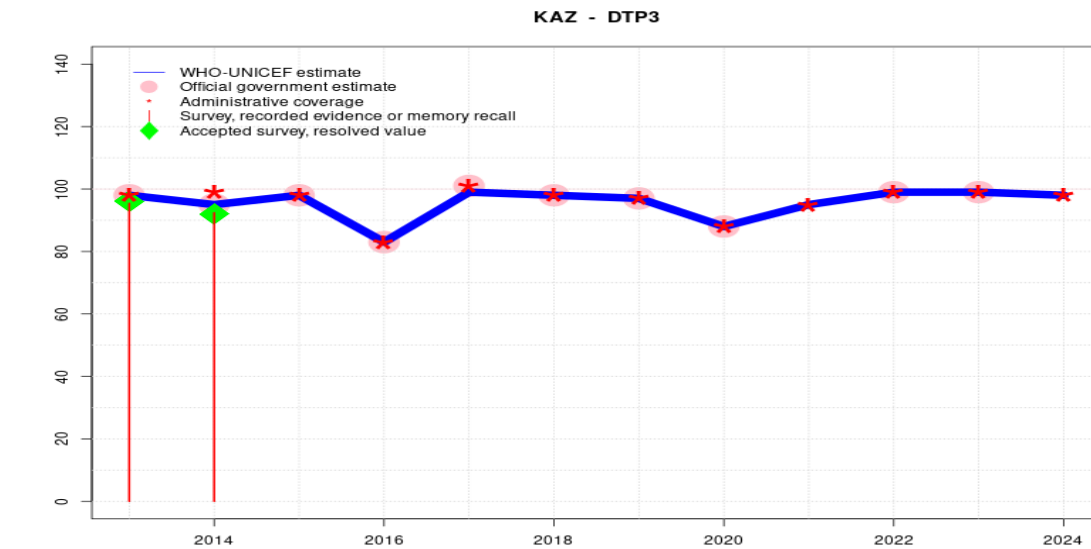
	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Estimate	99	96	99	93	99	99	99	95	98	99	99	99
Estimate GoC	•	•••	•	•	•	•	•	•	•	•	•	•
Official	99	96	99	93	100	99	99	95	-	99	98	-
Administrative	99	100	99	93	100	99	99	94	98	99	98	99
Survey	98	96	-	-	-	-	-	-	-	-	-	-

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Kazakhstan - DTP3



Description:

- 2024: Estimate informed by reported administrative data. WHO and UNICEF are aware of the ongoing 2024 Multiple Indicator Cluster Survey and await final results. Estimate challenged by: D-
- 2023: Estimate informed by reported data. Estimate challenged by: D-
- 2022: Estimate informed by reported data. Estimate challenged by: D-
- 2021: Estimate informed by reported administrative data. Estimate challenged by: D-
- 2020: Estimate informed by reported data. Estimate challenged by: D-
- 2019: Estimate informed by reported data. Estimate challenged by: D-
- 2018: Estimate informed by reported data. Estimate challenged by: D-
- 2017: Estimate informed by reported data. Programme reports two months vaccine stockout at national level. GoC=R+ D+
- 2016: Estimate informed by reported data. Programme reports five months vaccine stockout at national level. Estimate of 83 percent changed from previous revision value of 82 percent. Estimate challenged by: D-
- 2015: Estimate informed by reported data. Estimate challenged by: D-
- 2014: Estimate informed by reported data supported by survey. Survey evidence of 92 percent based on 1 survey(s). GoC=R+ S+ D+
- 2013: Estimate informed by reported data supported by survey. Survey evidence of 96 percent based on 1 survey(s). Kazakhstan Multiple Indicator Cluster Survey 2015 record or recall results of 95 percent modified for recall bias to 96 percent based on 1st dose record or recall coverage of 98 percent, 1st dose record only coverage of 95 percent and 3rd dose record only coverage of 93 percent. Estimate challenged by: D-

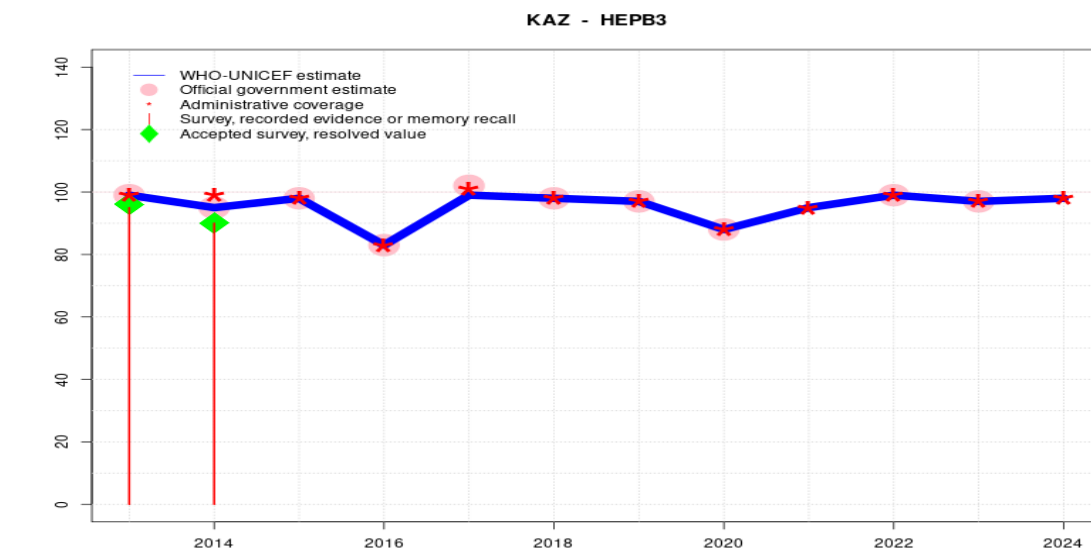
	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Estimate	98	95	98	83	99	98	97	88	95	99	99	98
Estimate GoC	●	●●	●	●	●●	●	●	●	●	●	●	●
Official	98	95	98	83	101	98	97	88	-	99	99	-
Administrative	98	99	98	83	101	98	97	88	95	99	99	98
Survey	95	92	-	-	-	-	-	-	-	-	-	-

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Kazakhstan - HEPB3



Description:

- 2024: Estimate informed by reported administrative data. WHO and UNICEF are aware of the ongoing 2024 Multiple Indicator Cluster Survey and await final results. Estimate challenged by: D-
- 2023: Estimate informed by reported data. Estimate challenged by: D-
- 2022: Estimate informed by reported data. Estimate challenged by: D-
- 2021: Estimate informed by reported administrative data. Estimate challenged by: D-
- 2020: Estimate informed by reported data. Estimate challenged by: D-
- 2019: Estimate informed by reported data. Estimate challenged by: D-
- 2018: Estimate informed by reported data. Estimate challenged by: D-
- 2017: Estimate informed by reported data. Programme reports two months vaccine stockout at national level. Estimate challenged by: D-
- 2016: Estimate informed by reported data. Programme reports five months vaccine stockout at national level. Estimate of 83 percent changed from previous revision value of 82 percent. Estimate challenged by: D-
- 2015: Estimate informed by reported data. Estimate challenged by: D-
- 2014: Estimate informed by reported data supported by survey. Survey evidence of 90 percent based on 1 survey(s). GoC=R+ S+ D+
- 2013: Estimate informed by reported data supported by survey. Survey evidence of 96 percent based on 1 survey(s). Kazakhstan Multiple Indicator Cluster Survey 2015 record or recall results of 95 percent modified for recall bias to 96 percent based on 1st dose record or recall coverage of 99 percent, 1st dose record only coverage of 96 percent and 3rd dose record only coverage of 93 percent. Estimate challenged by: D-

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Estimate	99	95	98	83	99	98	97	88	95	99	97	98
Estimate GoC	•	•••	•	•	•	•	•	•	•	•	•	•
Official	99	95	98	83	102	98	97	88	-	99	97	-
Administrative	99	99	98	83	101	98	97	88	95	99	97	98
Survey	95	90	-	-	-	-	-	-	-	-	-	-

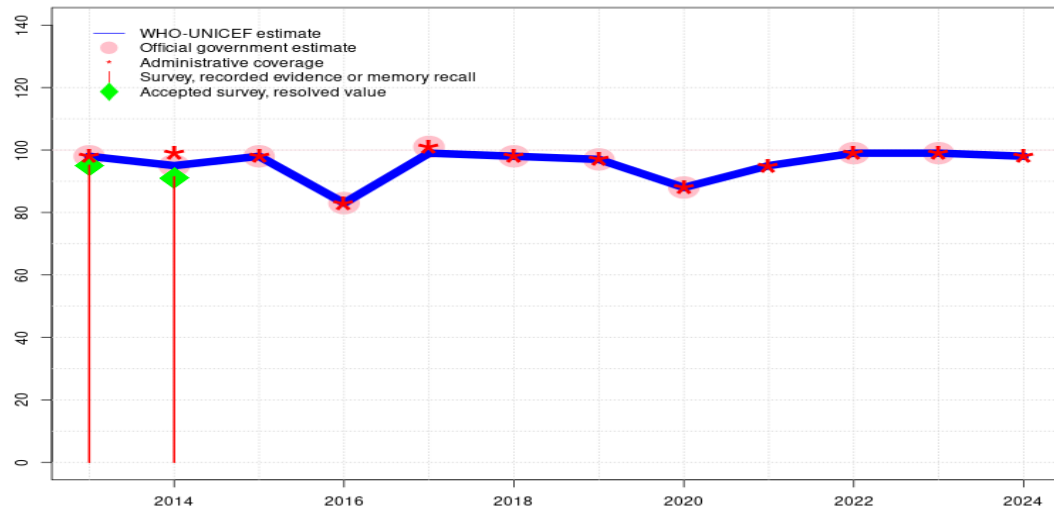
The WHO and UNICEF estimates of national immunization coverage (wuenic) are based on data and information that are of varying, and, in some instances, unknown quality. Beginning with the 2011 revision we describe the grade of confidence (GoC) we have in these estimates. As there is no underlying probability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

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Kazakhstan - HIB3

KAZ - HIB3



Description:

- 2024: Estimate informed by reported administrative data. WHO and UNICEF are aware of the ongoing 2024 Multiple Indicator Cluster Survey and await final results. Estimate challenged by: D-
- 2023: Estimate informed by reported data. Estimate challenged by: D-
- 2022: Estimate informed by reported data. Estimate challenged by: D-
- 2021: Estimate informed by reported administrative data. Estimate challenged by: D-
- 2020: Estimate informed by reported data. Estimate challenged by: D-
- 2019: Estimate informed by reported data. Estimate challenged by: D-
- 2018: Estimate informed by reported data. Estimate challenged by: D-
- 2017: Estimate informed by reported data. Programme reports two months vaccine stockout at national level. GoC=R+ D+
- 2016: Estimate informed by reported data. Programme reports five months vaccine stockout at national level. Estimate of 83 percent changed from previous revision value of 82 percent. Estimate challenged by: D-
- 2015: Estimate informed by reported data. Estimate challenged by: D-
- 2014: Estimate informed by reported data supported by survey. Survey evidence of 91 percent based on 1 survey(s). GoC=R+ S+ D+
- 2013: Estimate informed by reported data supported by survey. Survey evidence of 95 percent based on 1 survey(s). Estimate challenged by: D-

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Estimate	98	95	98	83	99	98	97	88	95	99	99	98
Estimate GoC	•	•••	•	•	••	•	•	•	•	•	•	•
Official	98	95	98	83	101	98	97	88	-	99	99	-
Administrative	98	99	98	83	101	98	97	88	95	99	99	98
Survey	95	91	-	-	-	-	-	-	-	-	-	-

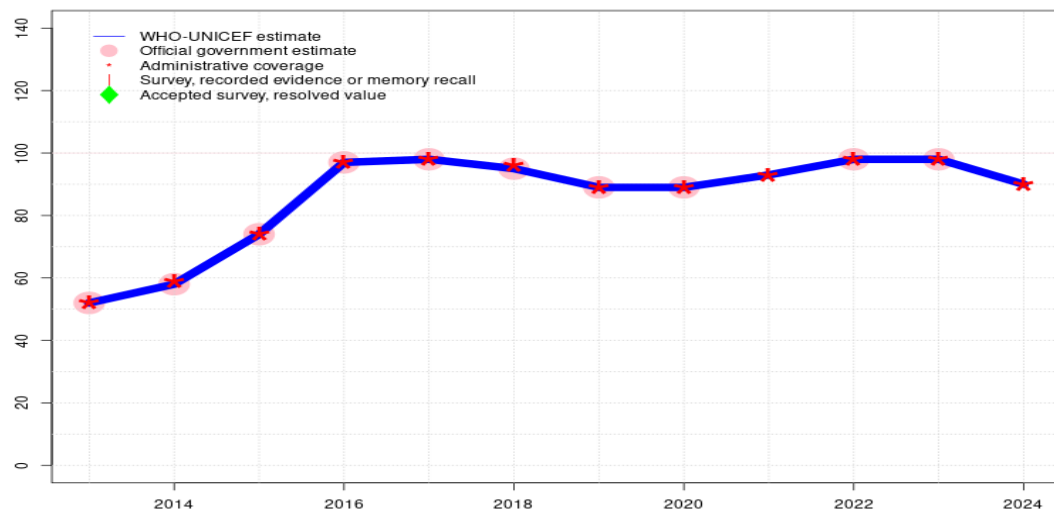
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Kazakhstan - PCV3

KAZ - PCV3



Description:

2024: Estimate informed by reported administrative data. WHO and UNICEF are aware of the ongoing 2024 Multiple Indicator Cluster Survey and await final results. Reported target population increase of 7 percent between 2023 and 2024. GoC=R+ D+

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

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

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

2020: Estimate informed by reported data. Estimate challenged by: D-

2019: Estimate informed by reported data. Programme reports three months vaccine stockout. Estimate challenged by: D-

2018: Estimate informed by reported data. Estimate challenged by: D-

2017: Estimate informed by reported data. Estimate challenged by: D-

2016: Estimate informed by reported data. Estimate challenged by: D-

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

2014: Estimate informed by reported data. GoC=R+ D+

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

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Estimate	52	58	74	97	98	95	89	89	93	98	98	90
Estimate GoC	●●	●●	●●	●	●	●	●	●	●	●	●	●●
Official	52	58	74	97	98	95	89	89	-	98	98	-
Administrative	52	59	74	97	98	96	89	89	93	98	98	90
Survey	-	-	-	-	-	-	-	-	-	-	-	-

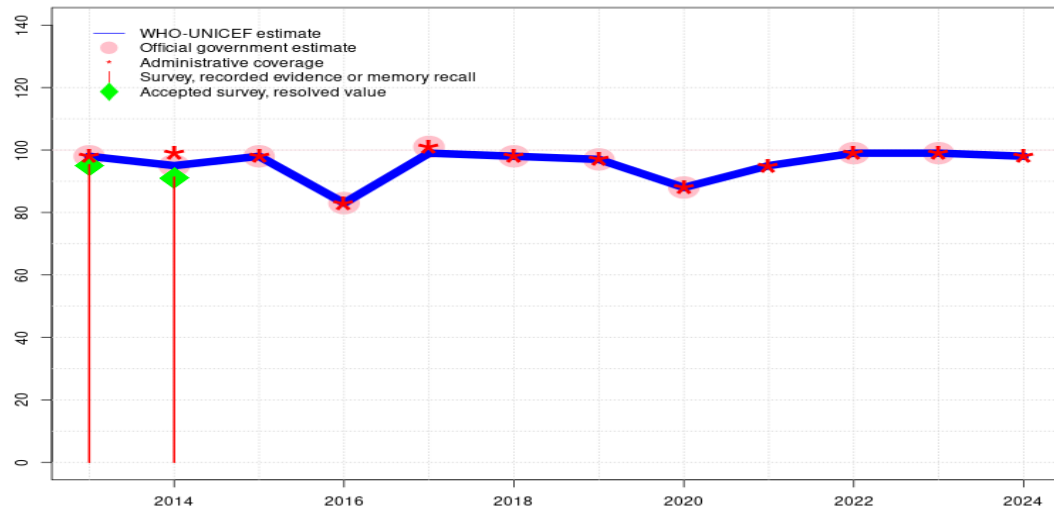
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Kazakhstan - POL3

KAZ - POL3



	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Estimate	98	95	98	83	99	98	97	88	95	99	99	98
Estimate GoC	●	●●●	●	●	●●	●	●	●	●	●	●	●
Official	98	95	98	83	101	98	97	88	-	99	99	-
Administrative	98	99	98	83	101	98	97	88	95	99	99	98
Survey	95	91	-	-	-	-	-	-	-	-	-	-

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

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

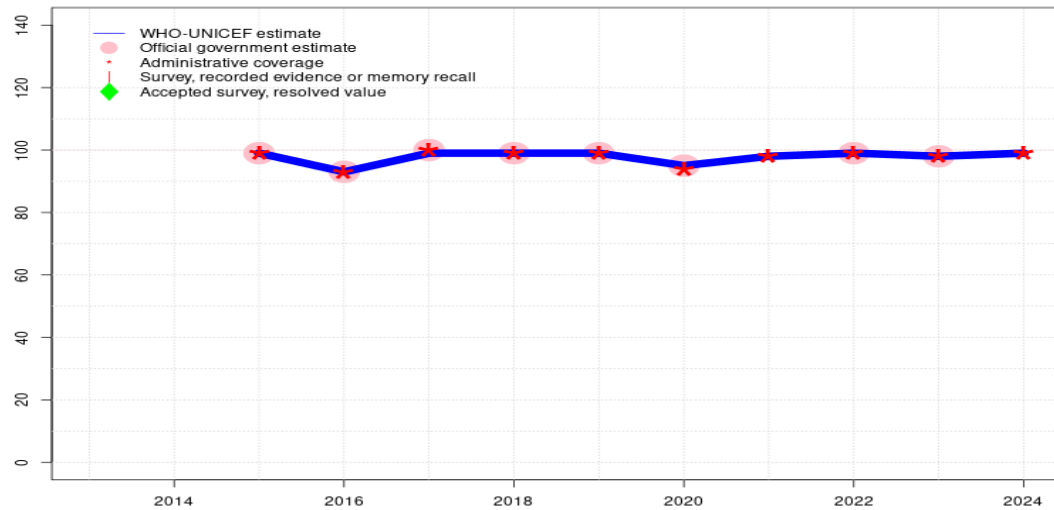
In all cases these estimates should be used with caution and should be assessed in light of the objective for which they are being used.

Description:

- 2024: Estimate informed by reported administrative data. WHO and UNICEF are aware of the ongoing 2024 Multiple Indicator Cluster Survey and await final results. Estimate challenged by: D-
- 2023: Estimate informed by reported data. Estimate challenged by: D-
- 2022: Estimate informed by reported data. Estimate challenged by: D-
- 2021: Estimate informed by reported administrative data. Estimate challenged by: D-
- 2020: Estimate informed by reported data. Estimate challenged by: D-
- 2019: Estimate informed by reported data. Programme reports two months vaccine stockout. Estimate challenged by: D-
- 2018: Estimate informed by reported data. Estimate challenged by: D-
- 2017: Estimate informed by reported data. Programme recovered from stockout reported in prior year. GoC=R+ D+
- 2016: Estimate informed by reported data. Programme reports five months vaccine stockout at national level. Estimate of 83 percent changed from previous revision value of 82 percent. Estimate challenged by: D-
- 2015: Estimate informed by reported data. Estimate challenged by: D-
- 2014: Estimate informed by reported data supported by survey.Survey evidence of 91 percent based on 1 survey(s). GoC=R+ S+ D+
- 2013: Estimate informed by reported data supported by survey.Survey evidence of 95 percent based on 1 survey(s). Estimate challenged by: D-

Kazakhstan - IPV1

KAZ - IPV1



Description:

- 2024: Estimate informed by reported administrative data. WHO and UNICEF are aware of the ongoing 2024 Multiple Indicator Cluster Survey and await final results. Estimate challenged by: D-
- 2023: Estimate informed by reported data. Estimate challenged by: D-
- 2022: Estimate informed by reported data. Estimate challenged by: D-
- 2021: Estimate informed by reported administrative data. Estimate challenged by: D-
- 2020: Estimate informed by reported data. Estimate of 95 percent changed from previous revision value of 94 percent. Estimate challenged by: D-
- 2019: Estimate informed by reported data. Estimate challenged by: D-
- 2018: Estimate informed by reported data. Estimate challenged by: D-
- 2017: Estimate informed by reported data. GoC=R+ D+
- 2016: Estimate informed by reported data. Programme reports five months vaccine stockout at national level. Estimate challenged by: D-
- 2015: Estimate informed by reported data. Estimate challenged by: D-

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Estimate	-	-	99	93	99	99	99	95	98	99	98	99
Estimate GoC	-	-	●	●	●●	●	●	●	●	●	●	●
Official	-	-	99	93	100	99	99	95	-	99	98	-
Administrative	-	-	99	93	100	99	99	94	98	99	98	99
Survey	-	-	-	-	-	-	-	-	-	-	-	-

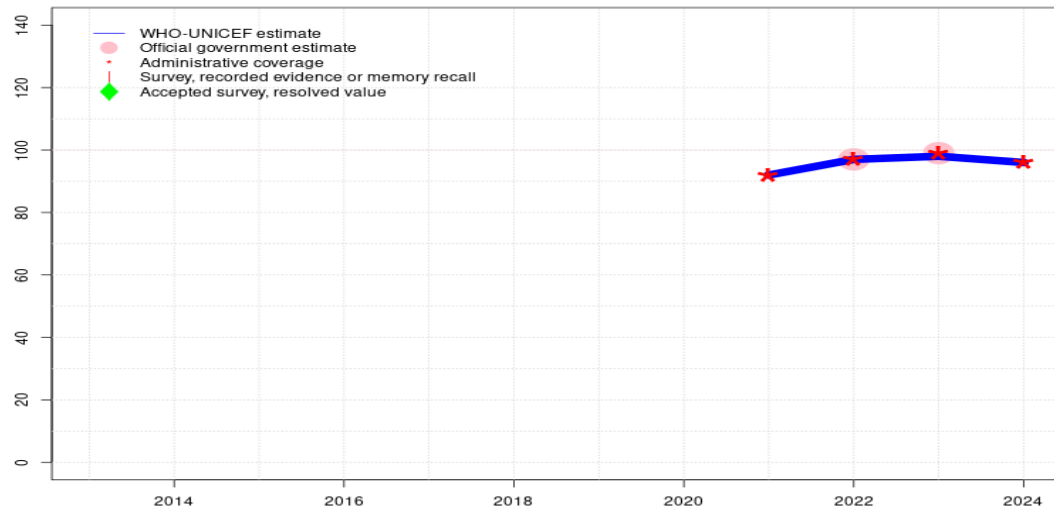
The WHO and UNICEF estimates of national immunization coverage (wuenic) are based on data and information that are of varying, and, in some instances, unknown quality. Beginning with the 2011 revision we describe the grade of confidence (GoC) we have in these estimates. As there is no underlying probability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

Kazakhstan - IPV2

KAZ - IPV2



Description:

- 2024: Estimate informed by reported administrative data. WHO and UNICEF are aware of the ongoing 2024 Multiple Indicator Cluster Survey and await final results. Estimate challenged by: D-
- 2023: Estimate based on estimated IPV1 coverage assuming no drop-out. Estimate challenged by: D-R-
- 2022: Estimate informed by reported data. Estimate challenged by: D-
- 2021: Estimate informed by reported administrative data. Second dose of inactivated polio vaccine introduced prior to 2021. Estimate challenged by: D-

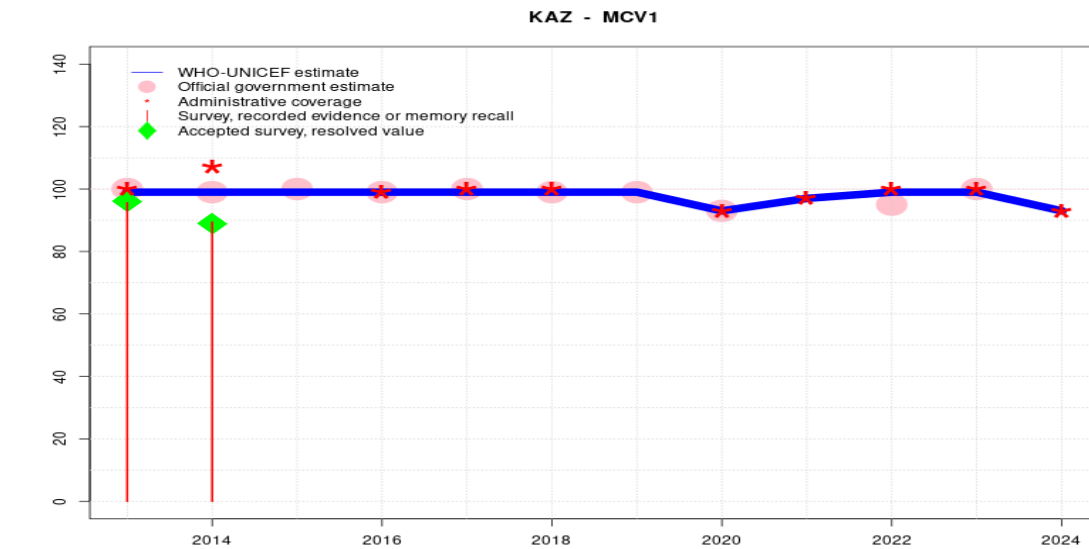
	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Estimate	-	-	-	-	-	-	-	-	92	97	98	96
Estimate GoC	-	-	-	-	-	-	-	-	●	●	●	●
Official	-	-	-	-	-	-	-	-	-	97	99	-
Administrative	-	-	-	-	-	-	-	-	92	97	99	96
Survey	-	-	-	-	-	-	-	-	-	-	-	-

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.

Kazakhstan - MCV1



Description:

2024: Estimate informed by reported administrative data. WHO and UNICEF are aware of the ongoing 2024 Multiple Indicator Cluster Survey and await final results. GoC=R+ D+

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

2022: Estimate informed by reported administrative data. Unexplained adjustment to the reported official coverage from administrative coverage. Estimate challenged by: D-

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

2020: Estimate informed by reported data. Estimate challenged by: D-

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

2018: Estimate informed by reported data. Estimate challenged by: D-

2017: Estimate informed by reported data. Estimate challenged by: D-

2016: Estimate informed by reported data. Estimate challenged by: D-

2015: Estimate informed by reported data. Estimate challenged by: S-

2014: Estimate informed by reported data supported by survey.Survey evidence of 89 percent based on 1 survey(s). GoC=R+ S+ D+

2013: Estimate informed by reported data supported by survey.Survey evidence of 96 percent based on 1 survey(s). Estimate challenged by: D-S-

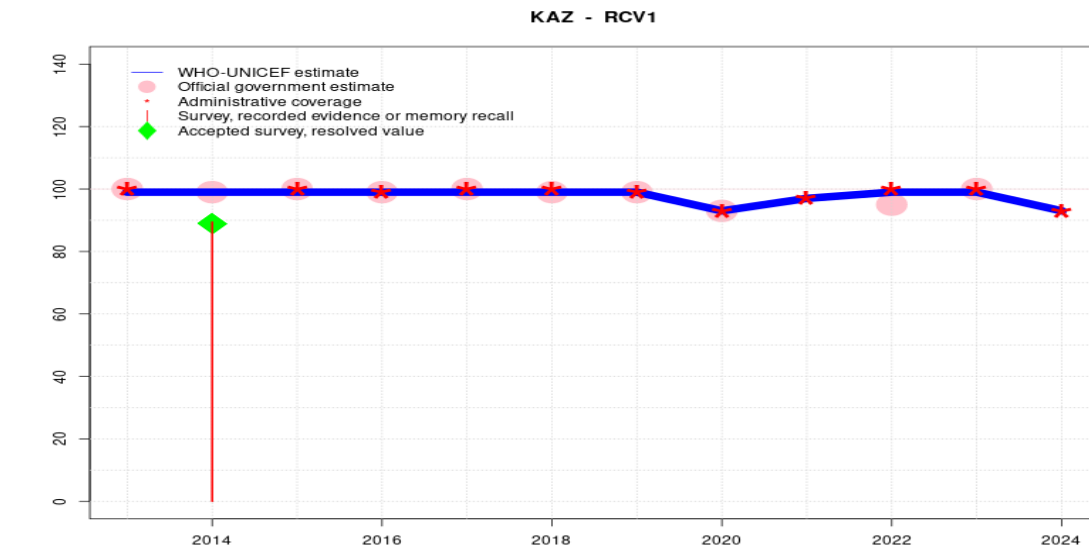
	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Estimate	99	99	99	99	99	99	99	93	97	99	99	93
Estimate GoC	●	●●●	●	●	●	●	●●	●	●	●	●	●●
Official	100	99	100	99	100	99	99	93	-	95	100	-
Administrative	100	107	-	99	100	100	-	93	97	100	100	93
Survey	96	89	-	-	-	-	-	-	-	-	-	-

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.

Kazakhstan - RCV1



Description:

2024: Estimate based on estimated MCV1. WHO and UNICEF are aware of the ongoing 2024 Multiple Indicator Cluster Survey and await final results. GoC=R+ D+

2023: Estimate based on estimated MCV1. Estimate challenged by: D-

2022: Estimate based on estimated MCV1. Estimate challenged by: D-

2021: Estimate based on estimated MCV1. Estimate challenged by: D-

2020: Estimate based on estimated MCV1. Estimate challenged by: D-

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

2018: Estimate based on estimated MCV1. Estimate challenged by: D-

2017: Estimate based on estimated MCV1. Estimate challenged by: D-

2016: Estimate based on estimated MCV1. Estimate challenged by: D-

2015: Estimate based on estimated MCV1. Estimate challenged by: S-

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

2013: Estimate based on estimated MCV1. Estimate challenged by: D-S-

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Estimate	99	99	99	99	99	99	99	93	97	99	99	93
Estimate GoC	•	•••	•	•	•	•	••	•	•	•	•	••
Official	100	99	100	99	100	99	99	93	-	95	100	-
Administrative	100	-	100	99	100	100	99	93	97	100	100	93
Survey	-	89	-	-	-	-	-	-	-	-	-	-

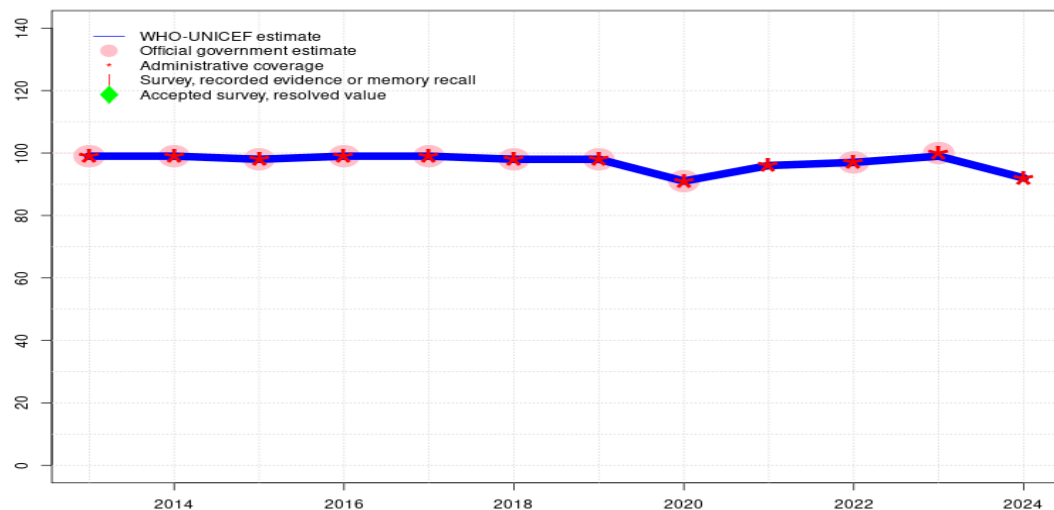
The WHO and UNICEF estimates of national immunization coverage (wuenic) are based on data and information that are of varying, and, in some instances, unknown quality. Beginning with the 2011 revision we describe the grade of confidence (GoC) we have in these estimates. As there is no underlying probability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

Kazakhstan - MCV2

KAZ - MCV2



Description:

2024: Estimate informed by reported administrative data. WHO and UNICEF are aware of the ongoing 2024 Multiple Indicator Cluster Survey and await final results. GoC=R+ D+

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

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

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

2020: Estimate informed by reported data. Estimate challenged by: D-

2019: Estimate informed by reported data. Estimate challenged by: D-

2018: Estimate informed by reported data. Estimate challenged by: D-

2017: Estimate informed by reported data. Estimate challenged by: D-

2016: Estimate informed by reported data. Estimate challenged by: D-

2015: Estimate informed by reported data. Estimate challenged by: D-

2014: Estimate informed by reported data. Estimate challenged by: D-

2013: Estimate informed by reported data. Estimate challenged by: D-

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Estimate	99	99	98	99	99	98	98	91	96	97	99	92
Estimate GoC	●	●	●	●	●	●	●	●	●	●	●	●●
Official	99	99	98	99	99	98	98	91	-	97	100	-
Administrative	99	99	98	99	99	98	98	91	96	97	100	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.

Kazakhstan - Survey Details

NOTE A survey to measure vaccination coverage for infants (i.e., children aged 0-11 months) will sample children aged 12-23 months at the time of survey to capture the youngest annual cohort of children who should have completed the vaccination schedule. Because WUENIC are for infant vaccinations, survey data in this report are presented to reflect the birth year of the youngest survey cohort. For example, results for a survey conducted during December 2020 among children aged 12-23 months at the time of the survey reflect the immunization experience of children born in 2019. Depending on the timing of survey field work, results may reflect the immunization experience of children born and vaccinated one or two years prior to the survey field work.

The survey results below present vaccination coverage estimates by antigen, confirmation method, and child's age at the time of the survey. Coverage based on **Recall** reflects information based upon a mother's or caregiver's memory. Coverage based on **Record** reflects information drawn from documented vaccination history in home- and/or facility-based records. **Evidence seen** reflects the percentage of children in the sample with documented evidence of vaccination history seen by the survey team.

2014 Kazakhstan Multiple Indicator Cluster Survey 2015

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Evidence seen
BCG	Record	97.3	12-23 m	1071	98
BCG	Record or Recall	98.8	12-23 m	1071	98
BCG	Record or Recall<12m	98.5	12-23 m	1071	98
DTP1	Record	94.3	12-23 m	1071	98
DTP1	Record or Recall	95.9	12-23 m	1071	98
DTP1	Record or Recall<12m	95.6	12-23 m	1071	98
DTP3	Record	89.8	12-23 m	1071	98
DTP3	Record or Recall	92.4	12-23 m	1071	98
DTP3	Record or Recall<12m	89.7	12-23 m	1071	98
HEPB1	Record	96.1	12-23 m	1071	98
HEPB1	Record or Recall	97.7	12-23 m	1071	98
HEPB1	Record or Recall<12m	97.6	12-23 m	1071	98
HEPB3	Record	87.6	12-23 m	1071	98
HEPB3	Record or Recall	90	12-23 m	1071	98
HEPB3	Record or Recall<12m	88.4	12-23 m	1071	98
HIB1	Record	92.9	12-23 m	1071	98
HIB1	Record or Recall	95	12-23 m	1071	98
HIB1	Record or Recall<12m	94.7	12-23 m	1071	98
HIB3	Record	88.6	12-23 m	1071	98

HIB3	Record or Recall	91.4	12-23 m	1071	98
HIB3	Record or Recall<12m	89.3	12-23 m	1071	98
MCV1	Record	82.7	12-23 m	1071	98
MCV1	Record or Recall	89.4	12-23 m	1071	98
POL1	Record	94.1	12-23 m	1071	98
POL1	Record or Recall	95.9	12-23 m	1071	98
POL1	Record or Recall<12m	95.6	12-23 m	1071	98
POL3	Record	89.2	12-23 m	1071	98
POL3	Record or Recall	91.3	12-23 m	1071	98
POL3	Record or Recall<12m	89.7	12-23 m	1071	98
RCV1	Record	82.7	12-23 m	1071	98
RCV1	Record or Recall	89.4	12-23 m	1071	98

2013 Kazakhstan Multiple Indicator Cluster Survey 2015

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Evidence seen
BCG	Record	96.5	24-35 m	1045	-
BCG	Record or Recall	98.9	24-35 m	1045	-
BCG	Record or Recall<12m	98.4	24-35 m	1045	-
DTP1	Record	94.6	24-35 m	1045	-
DTP1	Record or Recall	97.5	24-35 m	1045	-
DTP1	Record or Recall<12m	96.1	24-35 m	1045	-
DTP3	Record	92.6	24-35 m	1045	-
DTP3	Record or Recall	95.4	24-35 m	1045	-
DTP3	Record or Recall<12m	91	24-35 m	1045	-
HEPB1	Record	96.3	24-35 m	1045	-
HEPB1	Record or Recall	98.6	24-35 m	1045	-
HEPB1	Record or Recall<12m	98.6	24-35 m	1045	-
HEPB3	Record	92.5	24-35 m	1045	-
HEPB3	Record or Recall	95	24-35 m	1045	-
HEPB3	Record or Recall<12m	90.9	24-35 m	1045	-
HIB1	Record	93.8	24-35 m	1045	-
HIB1	Record or Recall	97.3	24-35 m	1045	-
HIB1	Record or Recall<12m	95.8	24-35 m	1045	-
HIB3	Record	92.3	24-35 m	1045	-
HIB3	Record or Recall	95.1	24-35 m	1045	-
HIB3	Record or Recall<12m	90.7	24-35 m	1045	-
MCV1	Record	92.7	24-35 m	1045	-
MCV1	Record or Recall	95.6	24-35 m	1045	-

Kazakhstan - Survey Details

MCV1	Record or Recall<12m	95.1	24-35 m	1045	-
POL1	Record	95.5	24-35 m	1045	-
POL1	Record or Recall	97.9	24-35 m	1045	-
POL1	Record or Recall<12m	96.7	24-35 m	1045	-
POL3	Record	93.2	24-35 m	1045	-
POL3	Record or Recall	95.3	24-35 m	1045	-
POL3	Record or Recall<12m	91.2	24-35 m	1045	-
RCV1	Record	92.7	24-35 m	1045	-

POL1	Record or Recall	99.1	15-26 m	1076	-
POL1	Record or Recall<12m	98.9	15-26 m	-	-
POL3	Recall	2.1	15-26 m	-	-
POL3	Record	86.3	15-26 m	-	-
POL3	Record or Recall	88.4	15-26 m	1076	-
POL3	Record or Recall<12m	81.3	15-26 m	-	-

2004 Kazakhstan Multiple Indicator Cluster Survey 2006

2009 Multiple Indicator Cluster Survey in the Republic of Kazakhstan 2010-2011

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Evidence seen
BCG	Recall	3.4	15-26 m	-	-
BCG	Record	96	15-26 m	-	-
BCG	Record or Recall	99.5	15-26 m	1076	-
BCG	Record or Recall<12m	99.2	15-26 m	-	-
DTP1	Recall	3.5	15-26 m	-	-
DTP1	Record	95.3	15-26 m	-	-
DTP1	Record or Recall	98.8	15-26 m	1076	-
DTP1	Record or Recall<12m	98.4	15-26 m	-	-
DTP3	Recall	2.6	15-26 m	-	-
DTP3	Record	94.2	15-26 m	-	-
DTP3	Record or Recall	96.8	15-26 m	1076	-
DTP3	Record or Recall<12m	93	15-26 m	-	-
HEPB1	Recall	20.4	15-26 m	-	-
HEPB1	Record	76.1	15-26 m	-	-
HEPB1	Record or Recall	96.6	15-26 m	1076	-
HEPB1	Record or Recall<12m	95.9	15-26 m	-	-
HEPB3	Recall	7.1	15-26 m	-	-
HEPB3	Record	63.1	15-26 m	-	-
HEPB3	Record or Recall	70.2	15-26 m	1076	-
HEPB3	Record or Recall<12m	67	15-26 m	-	-
MCV1	Recall	3.4	15-26 m	-	-
MCV1	Record	90.5	15-26 m	-	-
MCV1	Record or Recall	93.9	15-26 m	1076	-
MCV1	Record or Recall<12m	89	15-26 m	-	-
POL1	Recall	3.6	15-26 m	-	-
POL1	Record	95.5	15-26 m	-	-

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Evidence seen
BCG	Recall	4.5	15-26 m	991	-
BCG	Record	95.1	15-26 m	991	-
BCG	Record or Recall	99.6	15-26 m	991	-
BCG	Record or Recall<12m	97.9	15-26 m	991	-
DTP1	Recall	4	15-26 m	991	-
DTP1	Record	95.5	15-26 m	991	-
DTP1	Record or Recall	99.4	15-26 m	991	-
DTP1	Record or Recall<12m	97.9	15-26 m	991	-
DTP3	Recall	2.4	15-26 m	991	-
DTP3	Record	95.7	15-26 m	991	-
DTP3	Record or Recall	98	15-26 m	991	-
DTP3	Record or Recall<12m	91.7	15-26 m	991	-
HEPB1	Recall	0	15-26 m	991	-
HEPB1	Record	95.1	15-26 m	991	-
HEPB1	Record or Recall	95.1	15-26 m	991	-
HEPB1	Record or Recall<12m	94.3	15-26 m	991	-
HEPB3	Recall	0	15-26 m	991	-
HEPB3	Record	95.1	15-26 m	991	-
HEPB3	Record or Recall	95.1	15-26 m	991	-
HEPB3	Record or Recall<12m	92.3	15-26 m	991	-
MCV1	Recall	3.8	15-26 m	991	-
MCV1	Record	95.6	15-26 m	991	-
MCV1	Record or Recall	99.4	15-26 m	991	-
MCV1	Record or Recall<12m	94.7	15-26 m	991	-
POL1	Recall	4.3	15-26 m	991	-
POL1	Record	95.2	15-26 m	991	-
POL1	Record or Recall	99.5	15-26 m	991	-
POL1	Record or Recall<12m	99	15-26 m	991	-
POL3	Recall	1.4	15-26 m	991	-

POL3	Record	95.3	15-26 m	991	-	Vaccine	Confirmation method	Coverage	Age cohort	Sample	Evidence seen
POL3	Record or Recall	96.7	15-26 m	991	-	BCG	Record	90.2	12-23 m	244	-
POL3	Record or Recall<12m	93.9	15-26 m	991	-	DTP1	Record	90.3	12-23 m	244	-
1998 Kazakhstan Demographic and Health Survey 1999, 2000						DTP3	Record	88.9	12-23 m	244	-
						MCV1	Record	78.7	12-23 m	244	-
						POL1	Record	89.9	12-23 m	244	-
						POL3	Record	83.3	12-23 m	244	-

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