

Benin: 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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NOTE DE SYNTHÈSE Chaque année, l'OMS et l'UNICEF examinent conjointement les rapports soumis par les États Membres concernant la couverture vaccinale nationale, les rapports d'enquêtes finalisés, ainsi que les données issues de la littérature publiée et grise. Sur la base de ces données, et en tenant dûment compte des biais potentiels ainsi que des avis des experts locaux, l'OMS et l'UNICEF s'efforcent de distinguer les situations où les données empiriques disponibles reflètent fidèlement la performance du système de vaccination de celles où les données sont probablement compromises et donnent une vision trompeuse de la couverture.

Les estimations de l'OMS et de l'UNICEF sont spécifiques à chaque pays ; c'est-à-dire que les données de chaque pays sont examinées individuellement, et aucune donnée n'est empruntée à d'autres pays en l'absence de données. Les estimations ne reposent pas sur des ajustements ponctuels des données rapportées ; dans certains cas, des données empiriques proviennent d'une seule source, généralement les données de couverture déclarées au niveau national. Lorsqu'aucune donnée n'est disponible pour une combinaison donnée de pays/vaccin/année, les données des années précédentes et suivantes sont prises en compte et interpolées pour estimer la couverture des années manquantes. Dans les cas où les sources de données sont variées et présentent de grandes variations, une tentative est faite pour identifier l'estimation la plus probable en tenant compte des biais potentiels dans les données disponibles. Pour les méthodes, voir :

* 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.

SOURCES DE DONNÉES

Couverture ADMINISTRATIVE: Rapportée par les autorités nationales et basée sur des rapports administratifs agrégés provenant des prestataires de services de santé concernant le nombre de vaccinations administrées sur une période donnée (données du numérateur) et les données déclarées sur la population cible (données du dénominateur). Cette couverture peut être biaisée par des inexactitudes dans les données du numérateur et/ou du dénominateur.

Couverture OFFICIELLE: Estimation de la couverture rapportée par les autorités nationales, reflétant leur évaluation de la couverture la plus probable sur la base d'une combinaison de la couverture administrative, des estimations basées sur des enquêtes ou d'autres sources de données ou ajustements. Les approches pour déterminer la couverture OFFICIELLE peuvent varier d'un pays à l'autre.

Couverture par ENQUÊTE: Basée sur des estimations de couverture issues d'enquêtes menées auprès des ménages chez des enfants âgés de 6-11, 12-23 ou 24-35 mois, suivant une revue des méthodes et des résultats de l'enquête. Les informations reposent sur une combinaison de l'historique vaccinal, basé sur des preuves documentées ou le rappel des soignants. Les résultats des enquêtes sont considérés pour la cohorte de naissance appropriée en fonction de la période de collecte des données.

ABRÉVIATIONS ET DÉFINITIONS

BCG: pourcentage des naissances ayant reçu une dose du vaccin Bacillus Calmette-Guérin.

DTP1 (DTC1) / DTP3 (DTC3): pourcentage des nourrissons survivants ayant reçu respectivement la 1re / 3e dose du vaccin contenant l'anatoxine diphtérique et tétanique avec la coqueluche.

POL3: pourcentage des nourrissons survivants ayant reçu la 3e dose d'un vaccin contre la poliomyélite, qu'il s'agisse d'un vaccin oral ou inactivé.

IPV1 (VPI1): pourcentage des nourrissons survivants ayant reçu au moins une dose de vaccin antipoliomyélitique inactivé (VPI). Dans les pays suivant un calendrier de vaccination recommandant soit (i) une série primaire de trois doses de vaccin antipoliomyélitique oral (VPO) plus au moins une dose de VPI lorsque le VPO est inclus dans la vaccination systématique et/ou dans les campagnes, soit (ii) un calendrier séquentiel incluant le VPI suivi du VPO, les estimations de l'OMS et de l'UNICEF pour le VPI1 reflètent la couverture par au moins une dose systématique de VPI chez les nourrissons de moins d'un an. Pour les pays utilisant exclusivement le vaccin contenant le VPI, c'est-à-dire sans dose recommandée de VPO, les estimations de l'OMS et de l'UNICEF pour le VPI1 correspondent à la couverture de la 1ère dose de VPI.

La production des estimations de couverture pour le VPI, débutée en 2015, n'entraîne aucun changement dans les niveaux de couverture estimés pour la 3e dose de vaccin antipoliomyélitique (POL3). Pour les pays recommandant la vaccination systématique avec une série primaire de trois doses de VPI uniquement, la couverture POL3 estimée par l'OMS et l'UNICEF est équivalente à la couverture estimée avec trois doses de VPI. Pour les pays suivant un calendrier séquentiel, la couverture POL3 estimée repose sur celle de la 3e dose de vaccin antipoliomyélitique, quel que soit le type de vaccin.

IPV2 (VPI2): pourcentage des nourrissons survivants ayant reçu une 2e dose de vaccin antipoliomyélitique inactivé (VPI). Les estimations de couverture pour le VPI2 sont produites pour les pays utilisant le VPO.

MCV1: pourcentage des nourrissons survivants ayant reçu la 1re dose de vaccin contenant la rougeole. Dans les pays où le calendrier national recommande la 1re dose de MCV à 12 mois ou plus, en fonction de l'épidémiologie de la maladie dans le pays, les estimations de couverture reflètent le pourcentage d'enfants ayant reçu la 1re dose de MCV conformément à la recommandation.

MCV2: pourcentage des enfants ayant reçu la 2e dose de vaccin contenant la rougeole conformément au calendrier vaccinal du pays.

RCV1: pourcentage des nourrissons survivants ayant reçu la 1re dose de vaccin contenant la rubéole. Les estimations de couverture sont basées sur les estimations de l'OMS et de l'UNICEF pour la dose de vaccin contenant la rougeole qui correspond à la première combinaison vaccin rougeole-rubéole. La couverture déclarée au niveau national pour le RCV n'est pas prise en compte dans l'élaboration de cette estimation.

HEPB (VHBN): pourcentage des naissances ayant reçu une dose de vaccin contre l'hépatite B dans les 24 heures suivant l'accouchement. Les estimations de la couverture de la dose à la naissance contre l'hépatite B sont produites uniquement pour les pays ayant une politique universelle de dose à la naissance. Aucune estimation n'est réalisée pour les pays qui recommandent une dose à la naissance uniquement pour les nourrissons nés de mères infectées par le virus de l'hépatite B, ou pour les pays où les informations sont insuffisantes pour déterminer si la vaccination a eu lieu dans les 24 heures suivant la naissance.

HEPB3 (VHB3): pourcentage des nourrissons survivants ayant reçu la 3e dose de vaccin contenant l'hépatite B après la dose à la naissance.

HIB3: pourcentage des nourrissons survivants ayant reçu la 3e dose de vaccin contenant Haemophilus influenzae de type b.

ROTAC: pourcentage des nourrissons survivants ayant reçu la dernière dose recommandée du vaccin contre le rotavirus, qui peut être la 2e ou la 3e dose selon le vaccin.

PCV3 (VPC3): pourcentage des nourrissons survivants ayant reçu la 3e dose du vaccin antipneumococcique conjugué. Dans les pays où le calendrier national recommande deux doses pendant la petite enfance et une dose de rappel à 12 mois ou plus en fonction de l'épidémiologie

de la maladie dans le pays, les estimations de couverture peuvent refléter le pourcentage des nourrissons survivants ayant reçu deux doses de VPC avant leur premier anniversaire si la couverture pour la dose de rappel n'est pas déclarée.

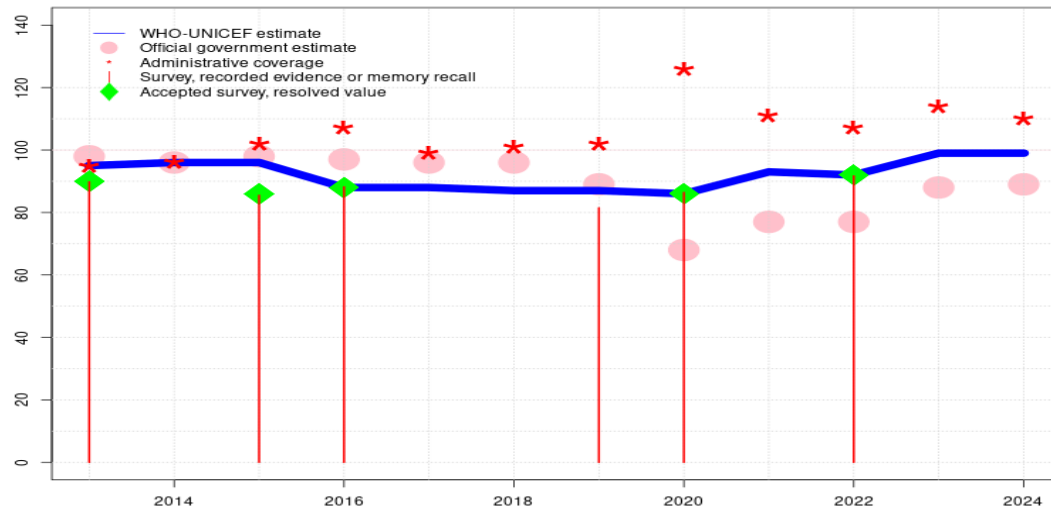
YFV (VFA): pourcentage des nourrissons survivants ayant reçu une dose de vaccin contre la fièvre jaune dans les pays où le VFA fait partie du calendrier national de vaccination des enfants ou est recommandé dans les zones à risque ; les estimations de couverture sont annualisées pour l'ensemble de la cohorte des nourrissons survivants.

MENGA: pourcentage des enfants ayant reçu une dose de vaccin conjugué contre le méningocoque A. Les estimations de couverture MENGA sont produites pour les pays situés dans la ceinture de la méningite en Afrique subsaharienne.

Avertissement: Toutes les précautions raisonnables ont été prises par l'Organisation mondiale de la Santé et le Fonds des Nations Unies pour l'enfance pour vérifier les informations contenues dans cette publication. Toutefois, le matériel publié est distribué sans aucune garantie, explicite ou implicite. La responsabilité de l'interprétation et de l'utilisation du matériel incombe au lecteur. En aucun cas, l'Organisation mondiale de la Santé ou le Fonds des Nations Unies pour l'enfance ne sauraient être tenus responsables des dommages résultant de son utilisation.

Benin - BCG

BEN - BCG



	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Estimate	95	96	96	88	88	87	87	86	93	92	99	99
Estimate GoC	•••	•••	•••	•	•	•	•	•	•	•	•	•
Official	98	96	98	97	96	96	89	68	77	77	88	89
Administrative	95	96	102	107	99	101	102	126	111	107	114	110
Survey	90	-	86	88	-	-	82	86	-	92	-	-

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: Reported data calibrated to 2022 levels. Decline of over 10 percent in the target population of surviving infants between 2023 and 2024. WHO and UNICEF recommend a revision of the time series in light of inconsistent denominator used in the last three years. Estimate challenged by: R-S-
- 2023: Reported data calibrated to 2022 levels. Reported decline in administrative coverage largely explained by increase in target population of 24 percent between 2022 and 2023. Estimate of 99 percent changed from previous revision value of 93 percent. Estimate challenged by: R-S-
- 2022: Survey evidence does not support reported data. Estimate based on survey result. Survey evidence of 92 percent based on 1 survey(s). Official coverage estimates are unexplained. Programme reports one month vaccine stockout at national level. Estimate of 92 percent changed from previous revision value of 89 percent. Estimate challenged by: D-R-
- 2021: Reported data calibrated to 2020 and 2022 levels. Official coverage estimates are unexplained. Estimate of 93 percent changed from previous revision value of 90 percent. Estimate challenged by: D-R-
- 2020: Survey evidence does not support reported data. Estimate based on survey result. Survey evidence of 86 percent based on 1 survey(s). Programme reports a one month vaccine stockout at national level. Inconsistent decrease of over 15 percent in reported denominator between 2019 and 2020. Official estimate not explained and inconsistent with previous years. Estimate challenged by: D-R-
- 2019: Estimate informed by interpolation between 2016 and 2020 levels. Benin Multiple Indicator Cluster Survey 2021-2022 results ignored by working group. Consistency between cohorts. Review of trends in reported number of doses administered is inconsistent with reported coverage levels. Estimate challenged by: D-R-
- 2018: Estimate informed by interpolation between 2016 and 2020 levels. Estimate challenged by: R-
- 2017: Estimate informed by interpolation between 2016 and 2020 levels. Reported target population decreased 8 percentage between 2016 and 2017. Programme reported three months vaccine stockout. GoC=Assigned by working group. GoC assigned to maintain consistency across vaccines.
- 2016: Estimate of 88 percent assigned by working group. Estimate informed by survey results. Reported data excluded because 107 percent greater than 100 percent. Reported official government estimate is based on results from supervisory reports and results from an external review in 2014. However, the methodology used to adjust from the administrative coverage levels is not described. Estimate challenged by: R-
- 2015: Estimate informed by interpolation between reported data supported by survey. Survey evidence of 86 percent based on 1 survey(s). Reported data excluded because 102 percent greater than 100 percent. Reported official government estimate is based on results from supervisory reports and results from an external review, however the methodology used to adjust from the administrative coverage levels is not described. Review of trends in reported number of doses administered is inconsistent with reported coverage levels.

Benin - BCG

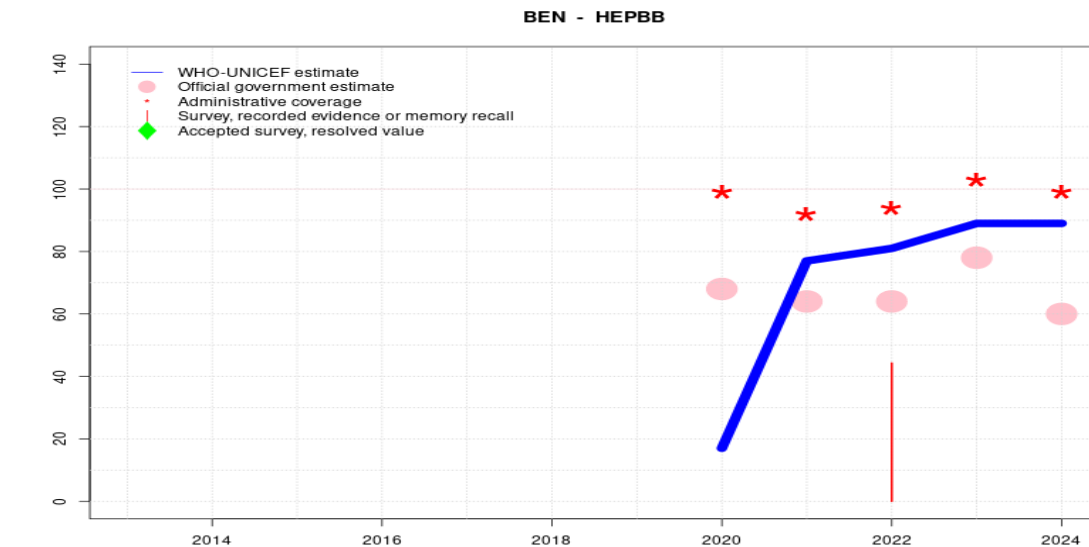
GoC=R+ S+ D+

2014: Estimate informed by reported administrative data. Reported official government estimate is based on DQS results from ten zone sanitaires and supervisory reports, however the methodology used to adjust from the administrative coverage levels is not described.

GoC=R+ S+ D+

2013: Estimate informed by reported administrative data supported by survey. Survey evidence of 90 percent based on 1 survey(s). Reported official government estimate based on the results of an external EPI review conducted in 10 communes. GoC=R+ S+ D+

Benin - HEPBB



	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Estimate	-	-	-	-	-	-	-	17	77	81	89	89
Estimate GoC	-	-	-	-	-	-	-	•	•	•	•	•
Official	-	-	-	-	-	-	-	68	64	64	78	60
Administrative	-	-	-	-	-	-	-	99	92	94	103	99
Survey	-	-	-	-	-	-	-	-	-	44	-	-

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.

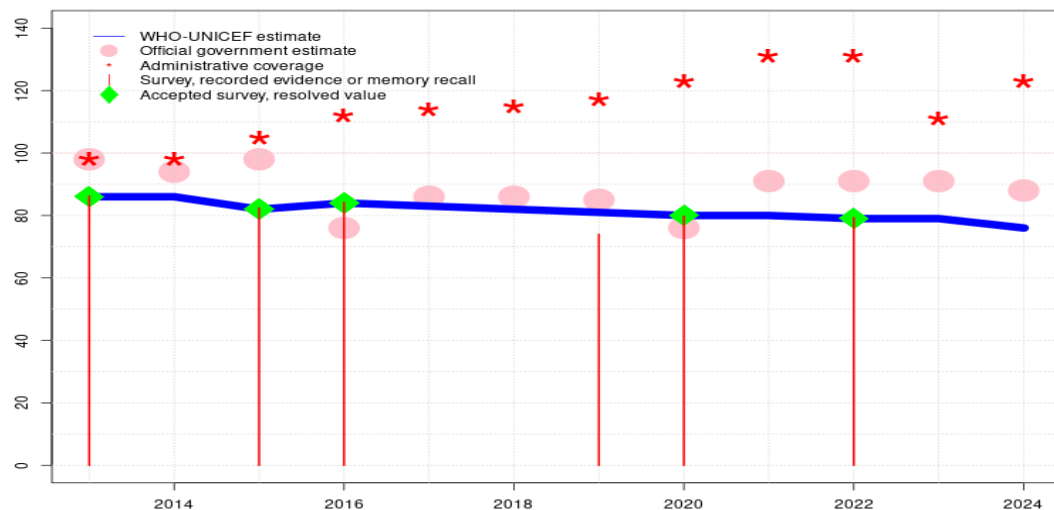
In all cases these estimates should be used with caution and should be assessed in light of the objective for which they are being used.

Description:

- 2024: Estimate informed by the difference between reported administered doses for BCG and HepB birth dose applied to the estimated BCG coverage. Reported data excluded due to sudden change in coverage from 78 to 60 percent. Decline of over 10 percent in the target population of surviving infants between 2023 and 2024. WHO and UNICEF recommend a revision of the time series in light of inconsistent denominator used in the last three years. Estimate challenged by: R-
- 2023: Estimate informed by the difference between reported administered doses for BCG and HepB birth dose applied to the estimated BCG coverage. Reported data excluded due to an increase from 64 percent to 78 percent with decrease to 60 percent. Reported decline in administrative coverage largely explained by increase in target population of 24 percent between 2022 and 2023. Estimate of 89 percent changed from previous revision value of 84 percent. Estimate challenged by: R-
- 2022: Estimate informed by the difference between reported administered doses for BCG and HepB birth dose applied to the estimated BCG coverage. National Vaccination Coverage Survey, Benin, 2023 results ignored by working group. Official coverage estimates are unexplained. Estimate of 81 percent changed from previous revision value of 79 percent. Estimate challenged by: D-R-
- 2021: Estimate informed by the difference between reported administered doses for BCG and HepB birth dose applied to the estimated BCG coverage. Official coverage estimates are unexplained. Estimate of 77 percent changed from previous revision value of 74 percent. Estimate challenged by: D-R-
- 2020: HepB birth dose introduced in August 2020. Estimate informed by the difference between reported administered doses for BCG and HepB birth dose applied to the estimated BCG coverage. Inconsistent decrease of over 15 percent in reported denominator between 2019 and 2020. Official estimate not explained and inconsistent with previous years. Estimate challenged by: R-

Benin - DTP1

BEN - DTP1



	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Estimate	86	86	82	84	83	82	81	80	80	79	79	76
Estimate GoC	•	•	•	•	•	•	•	•	•	•	•	•
Official	98	94	98	76	86	86	85	76	91	91	91	88
Administrative	98	98	105	112	114	115	117	123	131	131	111	123
Survey	86	-	82	84	-	-	74	80	-	79	-	-

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:

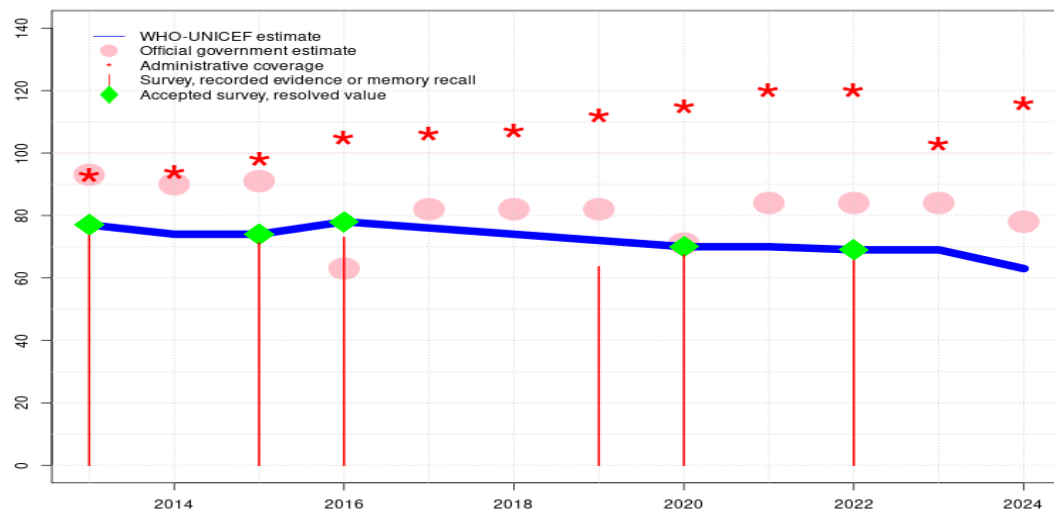
- 2024: Reported data calibrated to 2022 levels. Decline of over 10 percent in the target population of surviving infants between 2023 and 2024. WHO and UNICEF recommend a revision of the time series in light of inconsistent denominator used in the last three years. Estimate challenged by: D-R-
- 2023: Reported data calibrated to 2022 levels. Reported decline in administrative coverage largely explained by increase in target population of 24 percent between 2022 and 2023. Estimate challenged by: D-R-
- 2022: Survey evidence does not support reported data. Estimate based on survey result. Survey evidence of 79 percent based on 1 survey(s). Official coverage estimates are unexplained. Estimate challenged by: D-R-
- 2021: Estimate informed by interpolation between 2020 and 2022 levels. Official coverage estimates are unexplained. Estimate challenged by: D-R-
- 2020: Estimate of 80 percent assigned by working group. Estimate informed by survey results. Programme reports a one month vaccine stockout at national level. Inconsistent decrease of over 15 percent in reported denominator between 2019 and 2020. Official estimate not explained and inconsistent with previous years. Estimate challenged by: D-R-
- 2019: Estimate informed by interpolation between 2016 and 2020 levels. Benin Multiple Indicator Cluster Survey 2021-2022 results ignored by working group. Consistency between cohorts. Review of trends in reported number of doses administered is inconsistent with reported coverage levels. Programme reports one month vaccine stockout at national level. Estimate challenged by: D-R-
- 2018: Estimate informed by interpolation between 2016 and 2020 levels. Programme reports one month vaccine stockout at national level. Estimate challenged by: D-R-
- 2017: Estimate informed by interpolation between 2016 and 2020 levels. Reported target population decreased 8 percentage between 2016 and 2017. Estimate challenged by: R-
- 2016: Estimate of 84 percent assigned by working group. Estimate informed by survey results. Reported data excluded because 112 percent greater than 100 percent. Reported official government estimate is based on results from supervisory reports and results from an external review in 2014. However, the methodology used to adjust from the administrative coverage levels is not described. Estimate challenged by: D-R-
- 2015: Survey evidence does not support reported data. Estimate based on survey result. Survey evidence of 82 percent based on 1 survey(s). Reported data excluded because 105 percent greater than 100 percent. Reported official government estimate is based on results from supervisory reports and results from an external review, however the methodology used to adjust from the administrative coverage levels is not described. Review of trends in reported number of doses administered is inconsistent with reported coverage levels. Estimate challenged by: D-R-
- 2014: Reported data calibrated to 2013 and 2015 levels. Reported official government estimate is based on DQS results from ten zone sanitaires and supervisory reports, however the methodology used to adjust from the administrative coverage levels is not described. GoC=Assigned by working group. GoC assigned to maintain consistency across vaccines.

Benin - DTP1

2013: Survey evidence does not support reported data. Estimate based on survey result. Survey evidence of 86 percent based on 1 survey(s). Reported official government estimate based on the results of an external EPI review conducted in 10 communes. GoC=Assigned by working group. GoC assigned to maintain consistency across vaccines.

Benin - DTP3

BEN - DTP3



	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Estimate	77	74	74	78	76	74	72	70	70	69	69	63
Estimate GoC	•	•	•	•	•	•	•	•	•	•	•	•
Official	93	90	91	63	82	82	82	71	84	84	84	78
Administrative	93	94	98	105	106	107	112	115	120	120	103	116
Survey	74	-	71	73	-	-	64	67	-	66	-	-

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: Reported data calibrated to 2022 levels. Decline of over 10 percent in the target population of surviving infants between 2023 and 2024. WHO and UNICEF recommend a revision of the time series in light of inconsistent denominator used in the last three years. Estimate challenged by: D-R-
- 2023: Reported data calibrated to 2022 levels. Reported decline in administrative coverage largely explained by increase in target population of 24 percent between 2022 and 2023. Estimate challenged by: D-R-
- 2022: Survey evidence does not support reported data. Estimate based on survey result. Survey evidence of 69 percent based on 1 survey(s). National Vaccination Coverage Survey, Benin, 2023 record or recall results of 66 percent modified for recall bias to 69 percent based on 1st dose record or recall coverage of 79 percent, 1st dose record only coverage of 66 percent and 3rd dose record only coverage of 58 percent. Official coverage estimates are unexplained. Estimate challenged by: D-R-
- 2021: Estimate informed by interpolation between 2020 and 2022 levels. Official coverage estimates are unexplained. Estimate challenged by: D-R-
- 2020: Survey evidence does not support reported data. Estimate based on survey result. Survey evidence of 70 percent based on 1 survey(s). Benin Multiple Indicator Cluster Survey 2021-2022 record or recall results of 67 percent modified for recall bias to 70 percent based on 1st dose record or recall coverage of 80 percent, 1st dose record only coverage of 67 percent and 3rd dose record only coverage of 59 percent. Reported data excluded due to decline in reported coverage from 82 percent to 71 percent with increase to 84 percent. Programme reports a one month vaccine stockout at national level. Inconsistent decrease of over 15 percent in reported denominator between 2019 and 2020. Official estimate not explained and inconsistent with previous years. Estimate challenged by: D-R-
- 2019: Estimate informed by interpolation between 2016 and 2020 levels. Benin Multiple Indicator Cluster Survey 2021-2022 results ignored by working group. Consistency between cohorts. Benin Multiple Indicator Cluster Survey 2021-2022 record or recall results of 64 percent modified for recall bias to 67 percent based on 1st dose record or recall coverage of 74 percent, 1st dose record only coverage of 52 percent and 3rd dose record only coverage of 47 percent. Review of trends in reported number of doses administered is inconsistent with reported coverage levels. Programme reports one month vaccine stockout at national level. Estimate challenged by: D-R-
- 2018: Estimate informed by interpolation between 2016 and 2020 levels. Programme reports one month vaccine stockout at national level. Estimate of 74 percent changed from previous revision value of 73 percent. Estimate challenged by: D-R-
- 2017: Estimate informed by interpolation between 2016 and 2020 levels. Reported target population decreased 8 percentage between 2016 and 2017. Estimate of 76 percent changed from previous revision value of 75 percent. Estimate challenged by: R-
- 2016: Survey evidence does not support reported data. Estimate based on survey result. Survey evidence of 78 percent based on 1 survey(s). Benin Demographic and Health Survey 2017-2018 record or recall results of 73 percent modified for recall bias to 78 percent

based on 1st dose record or recall coverage of 84 percent, 1st dose record only coverage of 66 percent and 3rd dose record only coverage of 61 percent. Reported data excluded because 105 percent greater than 100 percent. Reported official government estimate is based on results from supervisory reports and results from an external review in 2014. However, the methodology used to adjust from the administrative coverage levels is not described. Estimate of 78 percent changed from previous revision value of 76 percent.

Estimate challenged by: D-R-

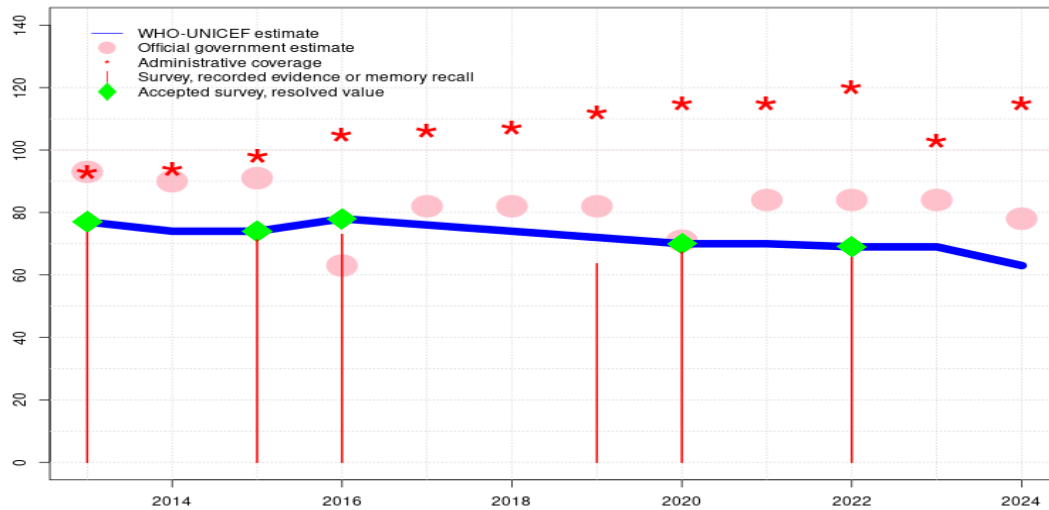
2015: Survey evidence does not support reported data. Estimate based on survey result. Survey evidence of 74 percent based on 1 survey(s). Benin Demographic and Health Survey 2017-2018 record or recall results of 71 percent modified for recall bias to 74 percent based on 1st dose record or recall coverage of 82 percent, 1st dose record only coverage of 60 percent and 3rd dose record only coverage of 54 percent. Reported official government estimate is based on results from supervisory reports and results from an external review, however the methodology used to adjust from the administrative coverage levels is not described. Review of trends in reported number of doses administered is inconsistent with reported coverage levels. Estimate challenged by: D-R-

2014: Reported data calibrated to 2013 and 2015 levels. Reported official government estimate is based on DQS results from ten zone sanitaires and supervisory reports, however the methodology used to adjust from the administrative coverage levels is not described. Estimate challenged by: D-R-

2013: Survey evidence does not support reported data. Estimate based on survey result. Survey evidence of 77 percent based on 1 survey(s). Benin Multiple Indicator Cluster Survey 2014 record or recall results of 74 percent modified for recall bias to 77 percent based on 1st dose record or recall coverage of 86 percent, 1st dose record only coverage of 68 percent and 3rd dose record only coverage of 61 percent. Reported official government estimate based on the results of an external EPI review conducted in 10 communes. Estimate challenged by: R-

Benin - HEPB3

BEN - HEPB3



	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Estimate	77	74	74	78	76	74	72	70	70	69	69	63
Estimate GoC	•	•	•	•	•	•	•	•	•	•	•	•
Official	93	90	91	63	82	82	82	71	84	84	84	78
Administrative	93	94	98	105	106	107	112	115	115	120	103	115
Survey	74	-	71	73	-	-	64	67	-	66	-	-

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: Reported data calibrated to 2022 levels. Decline of over 10 percent in the target population of surviving infants between 2023 and 2024. WHO and UNICEF recommend a revision of the time series in light of inconsistent denominator used in the last three years. Estimate challenged by: D-R-
- 2023: Reported data calibrated to 2022 levels. Reported decline in administrative coverage largely explained by increase in target population of 24 percent between 2022 and 2023. Estimate challenged by: D-R-
- 2022: Survey evidence does not support reported data. Estimate based on survey result. Survey evidence of 69 percent based on 1 survey(s). National Vaccination Coverage Survey, Benin, 2023 record or recall results of 66 percent modified for recall bias to 69 percent based on 1st dose record or recall coverage of 79 percent, 1st dose record only coverage of 66 percent and 3rd dose record only coverage of 58 percent. Official coverage estimates are unexplained. Estimate challenged by: D-R-
- 2021: Estimate informed by interpolation between 2020 and 2022 levels. Official coverage estimates are unexplained. Estimate challenged by: D-R-
- 2020: Survey evidence does not support reported data. Estimate based on survey result. Survey evidence of 70 percent based on 1 survey(s). Benin Multiple Indicator Cluster Survey 2021-2022 record or recall results of 67 percent modified for recall bias to 70 percent based on 1st dose record or recall coverage of 80 percent, 1st dose record only coverage of 67 percent and 3rd dose record only coverage of 59 percent. Reported data excluded due to decline in reported coverage from 82 percent to 71 percent with increase to 84 percent. Programme reports a one month vaccine stockout at national level. Inconsistent decrease of over 15 percent in reported denominator between 2019 and 2020. Official estimate not explained and inconsistent with previous years. Estimate challenged by: D-R-
- 2019: Estimate informed by interpolation between 2016 and 2020 levels. Benin Multiple Indicator Cluster Survey 2021-2022 results ignored by working group. Consistency between cohorts. Benin Multiple Indicator Cluster Survey 2021-2022 record or recall results of 64 percent modified for recall bias to 67 percent based on 1st dose record or recall coverage of 74 percent, 1st dose record only coverage of 52 percent and 3rd dose record only coverage of 47 percent. Review of trends in reported number of doses administered is inconsistent with reported coverage levels. Programme reports one month vaccine stockout at national level. Estimate challenged by: D-R-
- 2018: Estimate informed by interpolation between 2016 and 2020 levels. Programme reports one month vaccine stockout at national level. Estimate of 74 percent changed from previous revision value of 73 percent. Estimate challenged by: D-R-
- 2017: Estimate informed by interpolation between 2016 and 2020 levels. Reported target population decreased 8 percentage between 2016 and 2017. Estimate of 76 percent changed from previous revision value of 75 percent. Estimate challenged by: R-
- 2016: Survey evidence does not support reported data. Estimate based on survey result. Survey evidence of 78 percent based on 1 survey(s). Benin Demographic and Health Survey 2017-2018 record or recall results of 73 percent modified for recall bias to 78 percent

based on 1st dose record or recall coverage of 84 percent, 1st dose record only coverage of 66 percent and 3rd dose record only coverage of 61 percent. Reported data excluded because 105 percent greater than 100 percent. Reported official government estimate is based on results from supervisory reports and results from an external review in 2014. However, the methodology used to adjust from the administrative coverage levels is not described. Estimate of 78 percent changed from previous revision value of 76 percent. Estimate challenged by: D-R-

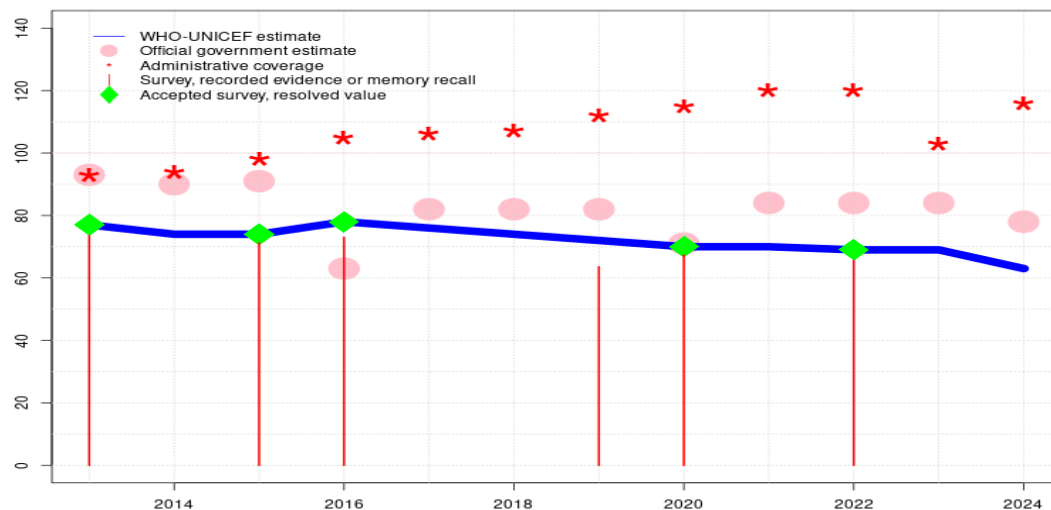
2015: Survey evidence does not support reported data. Estimate based on survey result. Survey evidence of 74 percent based on 1 survey(s). Benin Demographic and Health Survey 2017-2018 record or recall results of 71 percent modified for recall bias to 74 percent based on 1st dose record or recall coverage of 82 percent, 1st dose record only coverage of 60 percent and 3rd dose record only coverage of 54 percent. Reported official government estimate is based on results from supervisory reports and results from an external review, however the methodology used to adjust from the administrative coverage levels is not described. Review of trends in reported number of doses administered is inconsistent with reported coverage levels. Estimate challenged by: D-R-

2014: Reported data calibrated to 2013 and 2015 levels. Reported official government estimate is based on DQS results from ten zone sanitaires and supervisory reports, however the methodology used to adjust from the administrative coverage levels is not described. Estimate challenged by: D-R-

2013: Survey evidence does not support reported data. Estimate based on survey result. Survey evidence of 77 percent based on 1 survey(s). Benin Multiple Indicator Cluster Survey 2014 record or recall results of 74 percent modified for recall bias to 77 percent based on 1st dose record or recall coverage of 86 percent, 1st dose record only coverage of 68 percent and 3rd dose record only coverage of 61 percent. Reported official government estimate based on the results of an external EPI review conducted in 10 communes. Estimate challenged by: R-

Benin - HIB3

BEN - HIB3



	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Estimate	77	74	74	78	76	74	72	70	70	69	69	63
Estimate GoC	•	•	•	•	•	•	•	•	•	•	•	•
Official	93	90	91	63	82	82	82	71	84	84	84	78
Administrative	93	94	98	105	106	107	112	115	120	120	103	116
Survey	74	-	71	73	-	-	64	67	-	66	-	-

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: Reported data calibrated to 2022 levels. Decline of over 10 percent in the target population of surviving infants between 2023 and 2024. WHO and UNICEF recommend a revision of the time series in light of inconsistent denominator used in the last three years. Estimate challenged by: D-R-
- 2023: Reported data calibrated to 2022 levels. Reported decline in administrative coverage largely explained by increase in target population of 24 percent between 2022 and 2023. Estimate challenged by: D-R-
- 2022: Survey evidence does not support reported data. Estimate based on survey result. Survey evidence of 69 percent based on 1 survey(s). National Vaccination Coverage Survey, Benin, 2023 record or recall results of 66 percent modified for recall bias to 69 percent based on 1st dose record or recall coverage of 79 percent, 1st dose record only coverage of 66 percent and 3rd dose record only coverage of 58 percent. Official coverage estimates are unexplained. Estimate challenged by: D-R-
- 2021: Estimate informed by interpolation between 2020 and 2022 levels. Official coverage estimates are unexplained. Estimate challenged by: D-R-
- 2020: Survey evidence does not support reported data. Estimate based on survey result. Survey evidence of 70 percent based on 1 survey(s). Benin Multiple Indicator Cluster Survey 2021-2022 record or recall results of 67 percent modified for recall bias to 70 percent based on 1st dose record or recall coverage of 80 percent, 1st dose record only coverage of 67 percent and 3rd dose record only coverage of 59 percent. Reported data excluded due to decline in reported coverage from 82 percent to 71 percent with increase to 84 percent. Programme reports a one month vaccine stockout at national level. Inconsistent decrease of over 15 percent in reported denominator between 2019 and 2020. Official estimate not explained and inconsistent with previous years. Estimate challenged by: D-R-
- 2019: Estimate informed by interpolation between 2016 and 2020 levels. Benin Multiple Indicator Cluster Survey 2021-2022 results ignored by working group. Consistency between cohorts. Benin Multiple Indicator Cluster Survey 2021-2022 record or recall results of 64 percent modified for recall bias to 67 percent based on 1st dose record or recall coverage of 74 percent, 1st dose record only coverage of 52 percent and 3rd dose record only coverage of 47 percent. Programme reports one month vaccine stockout at national level. Review of trends in reported number of doses administered is inconsistent with reported coverage levels. Estimate challenged by: D-R-
- 2018: Estimate informed by interpolation between 2016 and 2020 levels. Programme reports one month vaccine stockout at national level. Estimate of 74 percent changed from previous revision value of 73 percent. Estimate challenged by: D-R-
- 2017: Estimate informed by interpolation between 2016 and 2020 levels. Reported target population decreased 8 percentage between 2016 and 2017. Estimate of 76 percent changed from previous revision value of 75 percent. Estimate challenged by: R-
- 2016: Survey evidence does not support reported data. Estimate based on survey result. Survey evidence of 78 percent based on 1 survey(s). Benin Demographic and Health Survey 2017-2018 record or recall results of 73 percent modified for recall bias to 78 percent

based on 1st dose record or recall coverage of 84 percent, 1st dose record only coverage of 66 percent and 3rd dose record only coverage of 61 percent. Reported data excluded because 105 percent greater than 100 percent. Reported official government estimate is based on results from supervisory reports and results from an external review in 2014. However, the methodology used to adjust from the administrative coverage levels is not described. Estimate of 78 percent changed from previous revision value of 76 percent. Estimate challenged by: D-R-

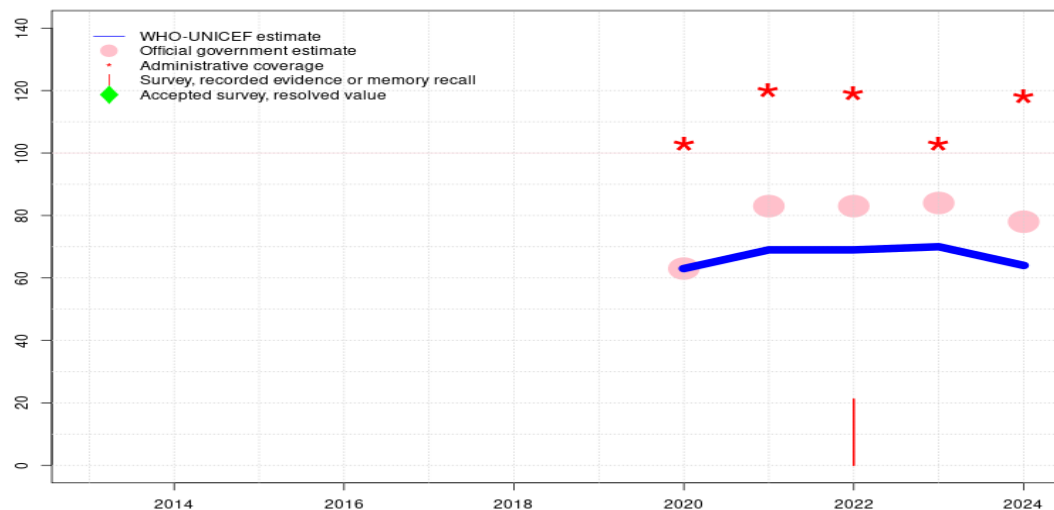
2015: Survey evidence does not support reported data. Estimate based on survey result. Survey evidence of 74 percent based on 1 survey(s). Benin Demographic and Health Survey 2017-2018 record or recall results of 71 percent modified for recall bias to 74 percent based on 1st dose record or recall coverage of 82 percent, 1st dose record only coverage of 60 percent and 3rd dose record only coverage of 54 percent. Reported official government estimate is based on results from supervisory reports and results from an external review, however the methodology used to adjust from the administrative coverage levels is not described. Review of trends in reported number of doses administered is inconsistent with reported coverage levels. Estimate challenged by: D-R-

2014: Reported data calibrated to 2013 and 2015 levels. Reported official government estimate is based on DQS results from ten zone sanitaires and supervisory reports, however the methodology used to adjust from the administrative coverage levels is not described. Estimate challenged by: D-R-

2013: Survey evidence does not support reported data. Estimate based on survey result. Survey evidence of 77 percent based on 1 survey(s). Benin Multiple Indicator Cluster Survey 2014 record or recall results of 74 percent modified for recall bias to 77 percent based on 1st dose record or recall coverage of 86 percent, 1st dose record only coverage of 68 percent and 3rd dose record only coverage of 61 percent. Reported official government estimate based on the results of an external EPI review conducted in 10 communes. Estimate challenged by: R-

Benin - ROTAC

BEN - ROTAC



Description:

- 2024: Reported data calibrated to 2022 levels. Decline of over 10 percent in the target population of surviving infants between 2023 and 2024. WHO and UNICEF recommend a revision of the time series in light of inconsistent denominator used in the last three years. Programme reported a 1 month vaccine stock-out at the national level. Estimate challenged by: D-R-
- 2023: Reported data calibrated to 2022 levels. Reported decline in administrative coverage largely explained by increase in target population of 24 percent between 2022 and 2023. Estimate of 70 percent changed from previous revision value of 69 percent. Estimate challenged by: D-R-
- 2022: Estimate of 69 percent assigned by working group. Estimate based on estimated DTP3 coverage. National Vaccination Coverage Survey, Benin, 2023 results ignored by working group. Survey ignored because of vaccine to vaccine consistency. National Vaccination Coverage Survey, Benin, 2023 record or recall results of 21 percent modified for recall bias to 22 percent based on 1st dose record or recall coverage of 40 percent, 1st dose record only coverage of 35 percent and 3rd dose record only coverage of 19 percent. Official coverage estimates are unexplained. Estimate challenged by: D-R-
- 2021: Reported data calibrated to 2022 levels. Official coverage estimates are unexplained. Estimate of 69 percent changed from previous revision value of 70 percent. Estimate challenged by: D-R-
- 2020: Rotavirus vaccine introduced in December 2019. Reporting started in 2020. Estimate based on reported official coverage. Inconsistent decrease of over 15 percent in reported denominator between 2019 and 2020. Official estimate not explained and inconsistent with previous years. Estimate challenged by: D-R-

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Estimate	-	-	-	-	-	-	-	63	69	69	70	64
Estimate GoC	-	-	-	-	-	-	-	•	•	•	•	•
Official	-	-	-	-	-	-	-	63	83	83	84	78
Administrative	-	-	-	-	-	-	-	103	120	119	103	118
Survey	-	-	-	-	-	-	-	-	-	21	-	-

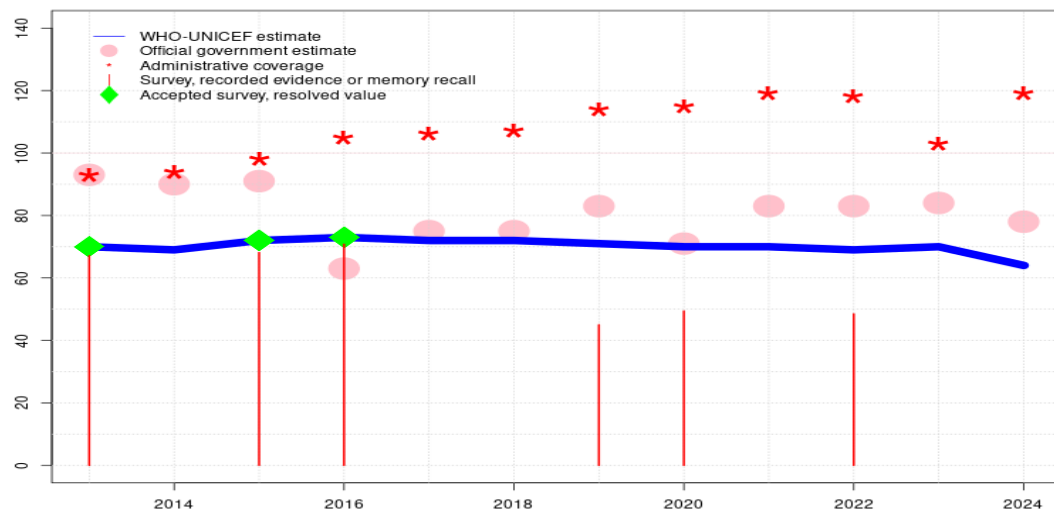
The WHO and UNICEF estimates of national immunization coverage (wuenic) are based on data and information that are of varying, and, in some instances, unknown quality. Beginning with the 2011 revision we describe the grade of confidence (GoC) we have in these estimates. As there is no underlying probability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

Benin - PCV3

BEN - PCV3



	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Estimate	70	69	72	73	72	72	71	70	70	69	70	64
Estimate GoC	•	•	•	•	•	•	•	•	•	•	•	•
Official	93	90	91	63	75	75	83	71	83	83	84	78
Administrative	93	94	98	105	106	107	114	115	119	118	103	119
Survey	67	-	68	71	-	-	45	49	-	49	-	-

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.

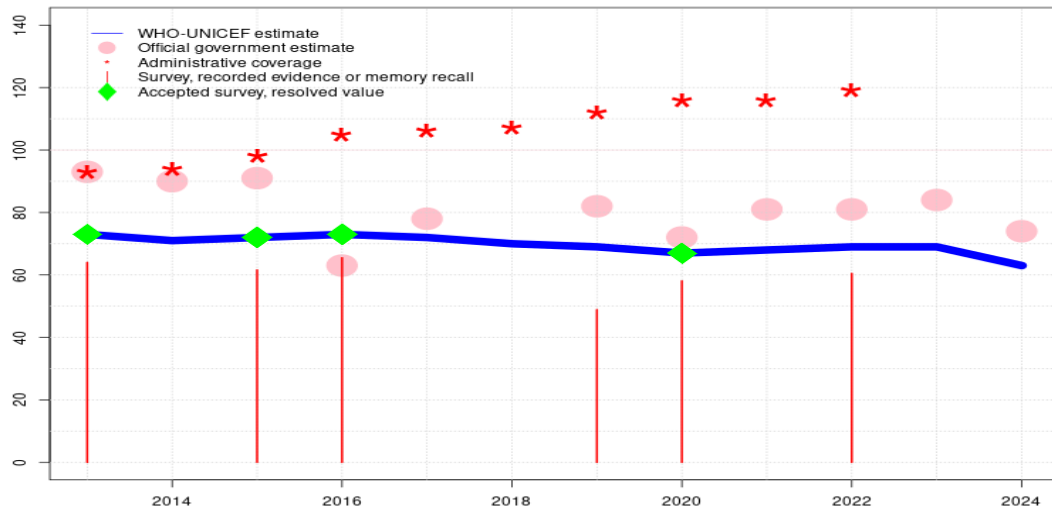
Description:

- 2024: Reported data calibrated to 2022 levels. Decline of over 10 percent in the target population of surviving infants between 2023 and 2024. WHO and UNICEF recommend a revision of the time series in light of inconsistent denominator used in the last three years. Estimate challenged by: D-R-
- 2023: Reported data calibrated to 2022 levels. Reported decline in administrative coverage largely explained by increase in target population of 24 percent between 2022 and 2023. Programme reports a vaccine stockout of less than a month at national level. Estimate of 70 percent changed from previous revision value of 69 percent. Estimate challenged by: D-R-
- 2022: Estimate of 69 percent assigned by working group. Estimate informed by DTP3 estimate. National Vaccination Coverage Survey, Benin, 2023 results ignored by working group. Survey results ignored for vaccine to vaccine consistency. National Vaccination Coverage Survey, Benin, 2023 record or recall results of 49 percent modified for recall bias to 53 percent based on 1st dose record or recall coverage of 63 percent, 1st dose record only coverage of 50 percent and 3rd dose record only coverage of 42 percent. Programme reports one and one-half months vaccine stockout at national level. Official coverage estimates are unexplained. Estimate challenged by: D-R-
- 2021: Estimate informed by interpolation between 2020 and 2022 levels. Official coverage estimates are unexplained. Estimate challenged by: D-R-
- 2020: Estimate of 70 percent assigned by working group. Estimate informed by estimated DTP3 coverage. Benin Multiple Indicator Cluster Survey 2021-2022 results ignored by working group. Survey results inconsistent with those of other antigens recommended for administration at the same age. Benin Multiple Indicator Cluster Survey 2021-2022 record or recall results of 49 percent modified for recall bias to 52 percent based on 1st dose record or recall coverage of 58 percent, 1st dose record only coverage of 45 percent and 3rd dose record only coverage of 40 percent. Reported data excluded due to decline in reported coverage from 83 percent to 71 percent with increase to 83 percent. Inconsistent decrease of over 15 percent in reported denominator between 2019 and 2020. Official estimate not explained and inconsistent with previous years. Estimate challenged by: D-R-
- 2019: Estimate informed by interpolation between 2016 and 2020 levels. Benin Multiple Indicator Cluster Survey 2021-2022 results ignored by working group. Consistency between cohorts. Benin Multiple Indicator Cluster Survey 2021-2022 record or recall results of 45 percent modified for recall bias to 47 percent based on 1st dose record or recall coverage of 54 percent, 1st dose record only coverage of 32 percent and 3rd dose record only coverage of 28 percent. Programme reports less than one month vaccine stockout at national level. Review of trends in reported number of doses administered is inconsistent with reported coverage levels. Estimate challenged by: D-R-
- 2018: Estimate informed by interpolation between 2016 and 2020 levels. Estimate challenged by: D-R-
- 2017: Estimate informed by interpolation between 2016 and 2020 levels. Reported target population decreased 8 percentage between 2016 and 2017. Estimate challenged by: D-R-

- 2016: Survey evidence does not support reported data. Estimate based on survey result. Survey evidence of 73 percent based on 1 survey(s). Benin Demographic and Health Survey 2017-2018 record or recall results of 71 percent modified for recall bias to 73 percent based on 1st dose record or recall coverage of 81 percent, 1st dose record only coverage of 64 percent and 3rd dose record only coverage of 58 percent. Reported data excluded because 105 percent greater than 100 percent. Reported official government estimate is based on results from supervisory reports and results from an external review in 2014. However, the methodology used to adjust from the administrative coverage levels is not described. Estimate challenged by: D-R-
- 2015: Survey evidence does not support reported data. Estimate based on survey result. Survey evidence of 72 percent based on 1 survey(s). Benin Demographic and Health Survey 2017-2018 record or recall results of 68 percent modified for recall bias to 72 percent based on 1st dose record or recall coverage of 79 percent, 1st dose record only coverage of 57 percent and 3rd dose record only coverage of 52 percent. Reported official government estimate is based on results from supervisory reports and results from an external review, however the methodology used to adjust from the administrative coverage levels is not described. Review of trends in reported number of doses administered is inconsistent with reported coverage levels. Estimate challenged by: D-R-
- 2014: Reported data calibrated to 2013 and 2015 levels. Reported official government estimate is based on DQS results from ten zone sanitaires and supervisory reports, however the methodology used to adjust from the administrative coverage levels is not described. Estimate challenged by: D-R-
- 2013: Survey evidence does not support reported data. Estimate based on survey result. Survey evidence of 70 percent based on 1 survey(s). Benin Multiple Indicator Cluster Survey 2014 record or recall results of 67 percent modified for recall bias to 70 percent based on 1st dose record or recall coverage of 79 percent, 1st dose record only coverage of 61 percent and 3rd dose record only coverage of 54 percent. Reported official government estimate based on the results of an external EPI review conducted in 10 communes. Estimate challenged by: D-R-

Benin - POL3

BEN - POL3



	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Estimate	73	71	72	73	72	70	69	67	68	69	69	63
Estimate GoC	•	•	•	•	•	•	•	•	•	•	•	•
Official	93	90	91	63	78	-	82	72	81	81	84	74
Administrative	93	94	98	105	106	107	112	116	116	119	-	-
Survey	64	-	62	66	-	-	49	58	-	61	-	-

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 based on estimated DTP3 coverage. Decline of over 10 percent in the target population of surviving infants between 2023 and 2024. WHO and UNICEF recommend a revision of the time series in light of inconsistent denominator used in the last three years. Estimate challenged by: R-
- 2023: Estimate based on estimated DTP3 coverage. Reported decline in administrative coverage largely explained by increase in target population of 24 percent between 2022 and 2023. Programme reports a two month oral polio vaccine stockout at national level. Estimate of 69 percent changed from previous revision value of 65 percent. Estimate challenged by: R-
- 2022: Estimate of 69 percent assigned by working group. Estimate based on estimated DTP3 coverage. National Vaccination Coverage Survey, Benin, 2023 results ignored by working group. National Vaccination Coverage Survey, Benin, 2023 record or recall results of 61 percent modified for recall bias to 65 percent based on 1st dose record or recall coverage of 77 percent, 1st dose record only coverage of 65 percent and 3rd dose record only coverage of 55 percent. Programme reports less than one month oral polio vaccine stockout at national level. Official coverage estimates are unexplained. Estimate of 69 percent changed from previous revision value of 65 percent. Estimate challenged by: D-R-
- 2021: Estimate informed by interpolation between 2020 and 2022 levels. Official coverage estimates are unexplained. Estimate of 68 percent changed from previous revision value of 66 percent. Estimate challenged by: D-R-
- 2020: Estimate of 67 percent assigned by working group. Estimate informed by survey results. Benin Multiple Indicator Cluster Survey 2021-2022 record or recall results of 58 percent modified for recall bias to 67 percent based on 1st dose record or recall coverage of 80 percent, 1st dose record only coverage of 67 percent and 3rd dose record only coverage of 56 percent. Inconsistent decrease of over 15 percent in reported denominator between 2019 and 2020. Official estimate not explained and inconsistent with previous years. Estimate challenged by: D-R-
- 2019: Estimate informed by interpolation between 2016 and 2020 levels. Benin Multiple Indicator Cluster Survey 2021-2022 results ignored by working group. Consistency between cohorts. Benin Multiple Indicator Cluster Survey 2021-2022 record or recall results of 49 percent modified for recall bias to 68 percent based on 1st dose record or recall coverage of 75 percent, 1st dose record only coverage of 51 percent and 3rd dose record only coverage of 46 percent. Review of trends in reported number of doses administered is inconsistent with reported coverage levels. Estimate challenged by: D-R-
- 2018: Estimate informed by interpolation between 2016 and 2020 levels. Reported data excluded because 107 percent greater than 100 percent. Reported data excluded due to an increase from 78 percent to 107 percent with decrease to 82 percent. Estimate of 70 percent changed from previous revision value of 71 percent. Estimate challenged by: D-R-
- 2017: Estimate informed by interpolation between 2016 and 2020 levels. Reported data excluded due to decline in reported coverage from 105 percent to 78 percent with increase to 107

percent. Reported target population decreased 8 percentage between 2016 and 2017. Estimate of 72 percent changed from previous revision value of 73 percent. Estimate challenged by: D-R-

2016: Survey evidence does not support reported data. Estimate based on survey result. Survey evidence of 73 percent based on 1 survey(s). Benin Demographic and Health Survey 2017-2018 record or recall results of 66 percent modified for recall bias to 73 percent based on 1st dose record or recall coverage of 82 percent, 1st dose record only coverage of 67 percent and 3rd dose record only coverage of 60 percent. Reported data excluded because 105 percent greater than 100 percent. Reported official government estimate is based on results from supervisory reports and results from an external review in 2014. However, the methodology used to adjust from the administrative coverage levels is not described. Estimate of 73 percent changed from previous revision value of 75 percent. Estimate challenged by: D-R-

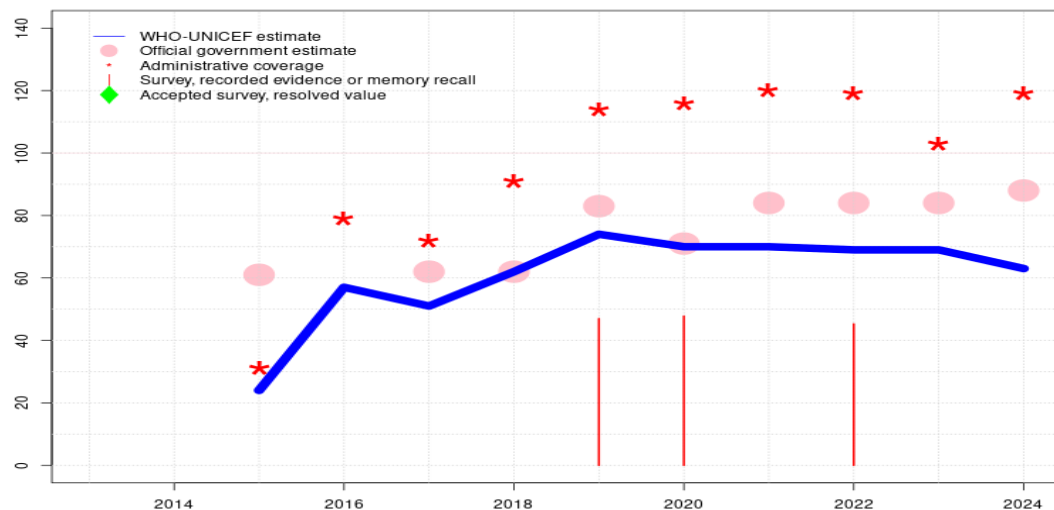
2015: Survey evidence does not support reported data. Estimate based on survey result. Survey evidence of 72 percent based on 1 survey(s). Benin Demographic and Health Survey 2017-2018 record or recall results of 62 percent modified for recall bias to 72 percent based on 1st dose record or recall coverage of 80 percent, 1st dose record only coverage of 60 percent and 3rd dose record only coverage of 54 percent. Reported official government estimate is based on results from supervisory reports and results from an external review, however the methodology used to adjust from the administrative coverage levels is not described. Review of trends in reported number of doses administered is inconsistent with reported coverage levels. Estimate challenged by: D-R-

2014: Reported data calibrated to 2013 and 2015 levels. Reported official government estimate is based on DQS results from ten zone sanitaires and supervisory reports, however the methodology used to adjust from the administrative coverage levels is not described. Estimate challenged by: D-R-

2013: Survey evidence does not support reported data. Estimate based on survey result. Survey evidence of 73 percent based on 1 survey(s). Benin Multiple Indicator Cluster Survey 2014 record or recall results of 64 percent modified for recall bias to 73 percent based on 1st dose record or recall coverage of 84 percent, 1st dose record only coverage of 67 percent and 3rd dose record only coverage of 58 percent. Reported official government estimate based on the results of an external EPI review conducted in 10 communes. Estimate challenged by: D-R-

Benin - IPV1

BEN - IPV1



	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Estimate	-	-	24	57	51	62	74	70	70	69	69	63
Estimate GoC	-	-	•	•	•	•	•	•	•	•	•	•
Official	-	-	61	-	62	62	83	71	84	84	84	88
Administrative	-	-	31	79	72	91	114	116	120	119	103	119
Survey	-	-	-	-	-	-	47	48	-	45	-	-

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:

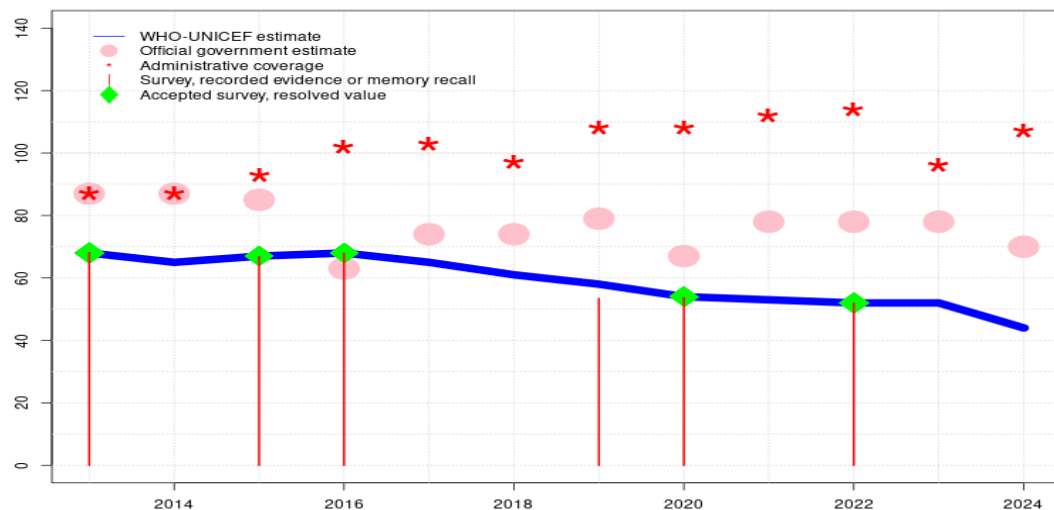
- 2024: Estimate based on estimated DTP3 coverage. Decline of over 10 percent in the target population of surviving infants between 2023 and 2024. WHO and UNICEF recommend a revision of the time series in light of inconsistent denominator used in the last three years. Estimate challenged by: D-R-
- 2023: Reported data calibrated to 2022 levels. Reported decline in administrative coverage largely explained by increase in target population of 24 percent between 2022 and 2023. Estimate challenged by: D-R-
- 2022: Estimate of 69 percent assigned by working group. Estimate informed by estimated DTP3 coverage. National Vaccination Coverage Survey, Benin, 2023 results ignored by working group. Survey results inconsistent with those of other antigens recommended for administration at the same age. Programme reports less than one month vaccine stockout at national level. Official coverage estimates are unexplained. Estimate challenged by: D-R-
- 2021: Estimate informed by interpolation between 2020 and 2022 levels. Official coverage estimates are unexplained. Estimate challenged by: D-R-
- 2020: Estimate of 70 percent assigned by working group. Estimate informed by estimated DTP3 coverage. Benin Multiple Indicator Cluster Survey 2021-2022 results ignored by working group. Survey results inconsistent with those of other antigens recommended for administration at the same age. Reported data excluded due to decline in reported coverage from 83 percent to 71 percent with increase to 84 percent. Programme reports a one month vaccine stockout at national level. Inconsistent decrease of over 15 percent in reported denominator between 2019 and 2020. Official estimate not explained and inconsistent with previous years. Estimate challenged by: D-R-
- 2019: Estimate based on the relationship between estimated DTP3 coverage and number of children vaccinated. Benin Multiple Indicator Cluster Survey 2021-2022 results ignored by working group. Consistency between cohorts. Reported data excluded due to an increase from 62 percent to 83 percent with decrease to 71 percent. Review of trends in reported number of doses administered is inconsistent with reported coverage levels. Estimate challenged by: D-R-
- 2018: Estimate based on the relationship between estimated DTP3 coverage and number of children vaccinated. Estimate challenged by: D-R-
- 2017: Estimate based on the relationship between estimated DTP3 coverage and number of children vaccinated. Reported target population decreased 8 percentage between 2016 and 2017. Estimate challenged by: R-
- 2016: Estimate based on the relationship between estimated DTP3 coverage and number of children vaccinated. Reported data excluded due to an increase from 31 percent to 79 percent with decrease to 62 percent. Programme reports three months vaccine stockout. Reported official government estimate is based on results from supervisory reports and results from an external review in 2014. However, the methodology used to adjust from the administrative coverage levels is not described. Estimate challenged by: D-R-
- 2015: Reported data calibrated to 2020 levels. Reported official government estimate is based

Benin - IPV1

on results from supervisory reports and results from an external review, however the methodology used to adjust from the administrative coverage levels is not described. Review of trends in reported number of doses administered is inconsistent with reported coverage levels. GoC=Assigned by working group. GoC assigned to maintain consistency across vaccines.

Benin - MCV1

BEN - MCV1



	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Estimate	68	65	67	68	65	61	58	54	53	52	52	44
Estimate GoC	•	•	•	•	•	•	•	•	•	•	•	•
Official	87	87	85	63	74	74	79	67	78	78	78	70
Administrative	87	87	93	102	103	97	108	108	112	114	96	107
Survey	68	-	67	68	-	-	53	54	-	52	-	-

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: Reported data calibrated to 2022 levels. Decline of over 10 percent in the target population of surviving infants between 2023 and 2024. WHO and UNICEF recommend a revision of the time series in light of inconsistent denominator used in the last three years. Estimate challenged by: D-R-
- 2023: Reported data calibrated to 2022 levels. Reported decline in administrative coverage largely explained by increase in target population of 24 percent between 2022 and 2023. Estimate challenged by: D-R-
- 2022: Survey evidence does not support reported data. Estimate based on survey result. Survey evidence of 52 percent based on 1 survey(s). Official coverage estimates are unexplained. Estimate challenged by: D-R-
- 2021: Estimate informed by interpolation between 2020 and 2022 levels. Official coverage estimates are unexplained. Estimate challenged by: D-R-
- 2020: Survey evidence does not support reported data. Estimate based on survey result. Survey evidence of 54 percent based on 1 survey(s). Reported data excluded due to decline in reported coverage from 79 percent to 67 percent with increase to 78 percent. Inconsistent decrease of over 15 percent in reported denominator between 2019 and 2020. Official estimate not explained and inconsistent with previous years. Estimate based on the relationship between DTP3 and MCV1 number of doses applied to the estimated DTP3 level. Estimate challenged by: D-R-
- 2019: Estimate informed by interpolation between 2016 and 2020 levels. Benin Multiple Indicator Cluster Survey 2021-2022 results ignored by working group. Consistency between cohorts. Review of trends in reported number of doses administered is inconsistent with reported coverage levels. Estimate challenged by: D-R-
- 2018: Estimate informed by interpolation between 2016 and 2020 levels. Estimate challenged by: D-R-
- 2017: Estimate informed by interpolation between 2016 and 2020 levels. Reported target population decreased 8 percentage between 2016 and 2017. Estimate challenged by: D-R-
- 2016: Survey evidence does not support reported data. Estimate based on survey result. Survey evidence of 68 percent based on 1 survey(s). Reported data excluded because 102 percent greater than 100 percent. Reported official government estimate is based on results from supervisory reports and results from an external review in 2014. However, the methodology used to adjust from the administrative coverage levels is not described. Estimate challenged by: D-R-
- 2015: Survey evidence does not support reported data. Estimate based on survey result. Survey evidence of 67 percent based on 1 survey(s). Reported official government estimate is based on results from supervisory reports and results from an external review, however the methodology used to adjust from the administrative coverage levels is not described. Review of trends in reported number of doses administered is inconsistent with reported coverage levels. Estimate challenged by: D-R-
- 2014: Reported data calibrated to 2013 and 2015 levels. Reported official government estimate is based on DQS results from ten zone sanitaires and supervisory reports, however the

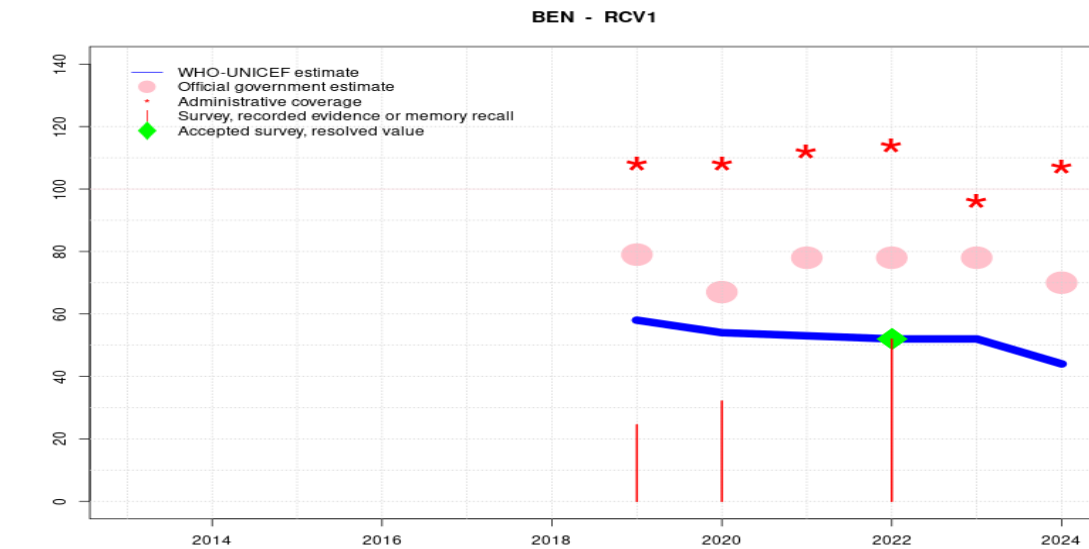
Benin - MCV1

methodology used to adjust from the administrative coverage levels is not described.

Estimate challenged by: D-R-

2013: Survey evidence does not support reported data. Estimate based on survey result. Survey evidence of 68 percent based on 1 survey(s). Reported official government estimate based on the results of an external EPI review conducted in 10 communes. Estimate challenged by: D-R-

Benin - RCV1



Description:

- 2024: Estimate based on estimated MCV1. Decline of over 10 percent in the target population of surviving infants between 2023 and 2024. WHO and UNICEF recommend a revision of the time series in light of inconsistent denominator used in the last three years. Estimate challenged by: D-R-
- 2023: Estimate based on estimated MCV1. Reported decline in administrative coverage largely explained by increase in target population of 24 percent between 2022 and 2023. Estimate challenged by: D-R-
- 2022: Estimate based on estimated MCV1. Official coverage estimates are unexplained. Estimate challenged by: D-R-
- 2021: Estimate based on estimated MCV1. Official coverage estimates are unexplained. Estimate challenged by: D-R-
- 2020: Estimate based on estimated MCV1. Benin Multiple Indicator Cluster Survey 2021-2022 results ignored by working group. Survey results inconsistent with those of other antigens recommended for administration at the same age. Reported data excluded due to decline in reported coverage from 79 percent to 67 percent with increase to 78 percent. Inconsistent decrease of over 15 percent in reported denominator between 2019 and 2020. Official estimate not explained and inconsistent with previous years. Estimate challenged by: D-R-
- 2019: Estimate based on estimated MCV1. Benin Multiple Indicator Cluster Survey 2021-2022 results ignored by working group. Consistency between cohorts. Rubella containing vaccine introduced in 2019 as part of measles-rubella vaccine. Review of trends in reported number of doses administered is inconsistent with reported coverage levels. Estimate challenged by: D-R-

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Estimate	-	-	-	-	-	-	58	54	53	52	52	44
Estimate GoC	-	-	-	-	-	-	●	●	●	●	●	●
Official	-	-	-	-	-	-	79	67	78	78	78	70
Administrative	-	-	-	-	-	-	108	108	112	114	96	107
Survey	-	-	-	-	-	-	25	32	-	52	-	-

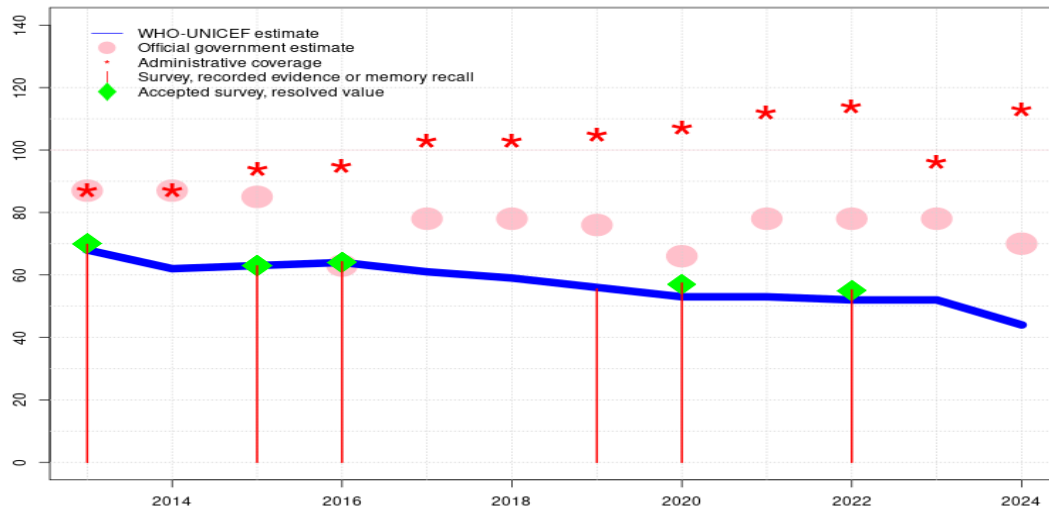
The WHO and UNICEF estimates of national immunization coverage (wuenic) are based on data and information that are of varying, and, in some instances, unknown quality. Beginning with the 2011 revision we describe the grade of confidence (GoC) we have in these estimates. As there is no underlying probability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

Benin - YFV

BEN - YFV



	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Estimate	68	62	63	64	61	59	56	53	53	52	52	44
Estimate GoC	•	•	•	•	•	•	•	•	•	•	•	•
Official	87	87	85	63	78	78	76	66	78	78	78	70
Administrative	87	87	94	95	103	103	105	107	112	114	96	113
Survey	70	-	63	64	-	-	56	57	-	55	-	-

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.

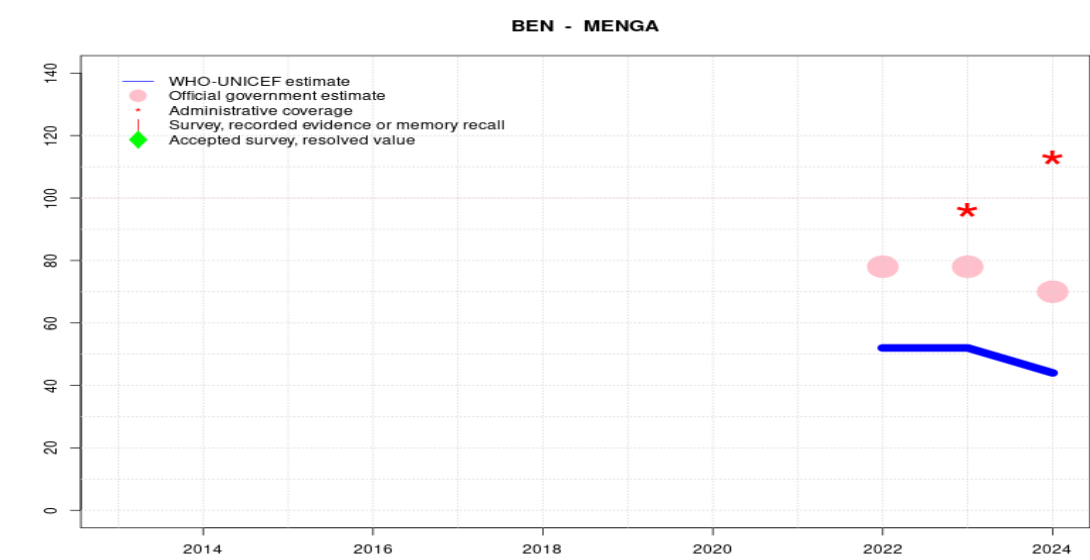
Description:

- 2024: Reported data calibrated to 2022 levels. Decline of over 10 percent in the target population of surviving infants between 2023 and 2024. WHO and UNICEF recommend a revision of the time series in light of inconsistent denominator used in the last three years. Estimate challenged by: D-R-S-
- 2023: Reported data calibrated to 2022 levels. Reported decline in administrative coverage largely explained by increase in target population of 24 percent between 2022 and 2023. Estimate of 52 percent changed from previous revision value of 55 percent. Estimate challenged by: D-R-
- 2022: Estimate of 52 percent assigned by working group. Estimate based on the relationship between admin coverage for MCV1 and YFV applied to estimated MCV1. Official coverage estimates are unexplained. Estimate of 52 percent changed from previous revision value of 55 percent. Estimate challenged by: D-R-
- 2021: Estimate informed by interpolation between 2020 and 2022 levels. Official coverage estimates are unexplained. Estimate of 53 percent changed from previous revision value of 56 percent. Estimate challenged by: D-R-
- 2020: Estimate of 53 percent assigned by working group. Estimate based on the relationship between admin coverage for MCV1 and YFV applied to estimated MCV1. Programme reports a one month vaccine stockout at national level. Inconsistent decrease of over 15 percent in reported denominator between 2019 and 2020. Official estimate not explained and inconsistent with previous years. Estimate of 53 percent changed from previous revision value of 57 percent. Estimate challenged by: D-R-
- 2019: Estimate informed by interpolation between 2016 and 2020 levels. Benin Multiple Indicator Cluster Survey 2021-2022 results ignored by working group. Consistency between cohorts. Review of trends in reported number of doses administered is inconsistent with reported coverage levels. Estimate of 56 percent changed from previous revision value of 59 percent. Estimate challenged by: D-R-
- 2018: Estimate informed by interpolation between 2016 and 2020 levels. Estimate of 59 percent changed from previous revision value of 61 percent. Estimate challenged by: D-R-
- 2017: Estimate informed by interpolation between 2016 and 2020 levels. Reported target population decreased 8 percentage between 2016 and 2017. Estimate of 61 percent changed from previous revision value of 62 percent. Estimate challenged by: D-R-
- 2016: Survey evidence does not support reported data. Estimate based on survey result. Survey evidence of 64 percent based on 1 survey(s). Programme reports three months vaccine stockout. Reported official government estimate is based on results from supervisory reports and results from an external review in 2014. However, the methodology used to adjust from the administrative coverage levels is not described. Estimate challenged by: D-R-
- 2015: Survey evidence does not support reported data. Estimate based on survey result. Survey evidence of 63 percent based on 1 survey(s). Reported official government estimate is based on results from supervisory reports and results from an external review, however the methodology used to adjust from the administrative coverage levels is not described.

Benin - YFV

- Review of trends in reported number of doses administered is inconsistent with reported coverage levels. Estimate challenged by: D-R-
- 2014: Reported data calibrated to 2013 and 2015 levels. Reported official government estimate is based on DQS results from ten zone sanitaires and supervisory reports, however the methodology used to adjust from the administrative coverage levels is not described. Estimate of 62 percent changed from previous revision value of 63 percent. Estimate challenged by: D-R-
- 2013: Estimate of 68 percent assigned by working group. Estimate based on the relationship between admin coverage for MCV1 and YFV applied to estimated MCV1. Reported official government estimate based on the results of an external EPI review conducted in 10 communes. Estimate of 68 percent changed from previous revision value of 70 percent. Estimate challenged by: D-R-

Benin - MENGA



Description:

- 2024: Estimate based on estimated MCV1 coverage. Decline of over 10 percent in the target population of surviving infants between 2023 and 2024. WHO and UNICEF recommend a revision of the time series in light of inconsistent denominator used in the last three years. Estimate challenged by: D-R-
- 2023: Estimate informed by the MCV1 estimate. Reported decline in administrative coverage largely explained by increase in target population of 24 percent between 2022 and 2023. Estimate challenged by: D-R-
- 2022: Estimate informed by the MCV1 estimate. Official coverage estimates are unexplained. Estimate challenged by: R-

	2013	2014	2015	2016	2017	2018	2019	2020	2021	2022	2023	2024
Estimate	-	-	-	-	-	-	-	-	-	52	52	44
Estimate GoC	-	-	-	-	-	-	-	-	-	●	●	●
Official	-	-	-	-	-	-	-	-	-	78	78	70
Administrative	-	-	-	-	-	-	-	-	-	-	96	113
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.

Benin - 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.

2022 Enquête National de Couverture Vaccinale, Bénin, 2023

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Evidence seen
BCG	Recall	17.9	12-23 m	3613	74
BCG	Record	69.4	12-23 m	3613	74
BCG	Record or Recall	91.7	12-23 m	3613	74
DTP1	Recall	13.3	12-23 m	3613	74
DTP1	Record	65.9	12-23 m	3613	74
DTP1	Record or Recall	79.3	12-23 m	3613	74
DTP3	Recall	7.5	12-23 m	3613	74
DTP3	Record	58.1	12-23 m	3613	74
DTP3	Record or Recall	65.6	12-23 m	3613	74
HEPB1	Recall	13.3	12-23 m	3613	74
HEPB1	Record	65.9	12-23 m	3613	74
HEPB1	Record or Recall	79.3	12-23 m	3613	74
HEPB3	Recall	7.5	12-23 m	3613	74
HEPB3	Record	58.1	12-23 m	3613	74
HEPB3	Record or Recall	65.6	12-23 m	3613	74
HEPBB	Recall	15.1	12-23 m	3613	74
HEPBB	Record	29.1	12-23 m	3613	74
HEPBB	Record or Recall	44.3	12-23 m	3613	74
HIB1	Recall	13.3	12-23 m	3613	74

HIB1	Record	65.9	12-23 m	3613	74
HIB1	Record or Recall	79.3	12-23 m	3613	74
HIB3	Recall	7.5	12-23 m	3613	74
HIB3	Record	58.1	12-23 m	3613	74
HIB3	Record or Recall	65.6	12-23 m	3613	74
IPV1	Recall	10	12-23 m	3613	74
IPV1	Record	35.4	12-23 m	3613	74
IPV1	Record or Recall	45.3	12-23 m	3613	74
MCV1	Recall	8.5	12-23 m	3613	74
MCV1	Record	43.3	12-23 m	3613	74
MCV1	Record or Recall	51.9	12-23 m	3613	74
PCV1	Recall	12.8	12-23 m	3613	74
PCV1	Record	49.9	12-23 m	3613	74
PCV1	Record or Recall	62.7	12-23 m	3613	74
PCV3	Recall	6.5	12-23 m	3613	74
PCV3	Record	42	12-23 m	3613	74
PCV3	Record or Recall	48.5	12-23 m	3613	74
POL1	Recall	12	12-23 m	3613	74
POL1	Record	65.2	12-23 m	3613	74
POL1	Record or Recall	77.2	12-23 m	3613	74
POL3	Recall	5.3	12-23 m	3613	74
POL3	Record	55.2	12-23 m	3613	74
POL3	Record or Recall	60.5	12-23 m	3613	74
RCV1	Recall	8.5	12-23 m	3613	74
RCV1	Record	43.3	12-23 m	3613	74
RCV1	Record or Recall	51.9	12-23 m	3613	74
ROTAC	Recall	1.9	12-23 m	3613	74
ROTAC	Record	19.3	12-23 m	3613	74
ROTAC	Record or Recall	21.2	12-23 m	3613	74
YFV	Recall	8.1	12-23 m	3613	74
YFV	Record	47.1	12-23 m	3613	74
YFV	Record or Recall	55.2	12-23 m	3613	74

2020 Enquete par Grappes a Indicateurs Multiples, Benin, 2021-2022

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Evidence seen
BCG	Recall	15.9	12-23 m	2570	75
BCG	Record	70.5	12-23 m	2570	75
BCG	Record or Recall	86.4	12-23 m	2570	75

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BCG	Record or Recall<12m	86.2	12-23 m	2570	75
DTP1	Recall	12.7	12-23 m	2570	75
DTP1	Record	67.1	12-23 m	2570	75
DTP1	Record or Recall	79.8	12-23 m	2570	75
DTP1	Record or Recall<12m	79.2	12-23 m	2570	75
DTP3	Recall	8.6	12-23 m	2570	75
DTP3	Record	58.7	12-23 m	2570	75
DTP3	Record or Recall	67.3	12-23 m	2570	75
DTP3	Record or Recall<12m	66.2	12-23 m	2570	75
HEPB1	Recall	12.7	12-23 m	2570	75
HEPB1	Record	67.1	12-23 m	2570	75
HEPB1	Record or Recall	79.8	12-23 m	2570	75
HEPB1	Record or Recall<12m	79.2	12-23 m	2570	75
HEPB3	Recall	8.6	12-23 m	2570	75
HEPB3	Record	58.7	12-23 m	2570	75
HEPB3	Record or Recall	67.3	12-23 m	2570	75
HEPB3	Record or Recall<12m	66.2	12-23 m	2570	75
HIB1	Recall	12.7	12-23 m	2570	75
HIB1	Record	67.1	12-23 m	2570	75
HIB1	Record or Recall	79.8	12-23 m	2570	75
HIB1	Record or Recall<12m	79.2	12-23 m	2570	75
HIB3	Recall	8.6	12-23 m	2570	75
HIB3	Record	58.7	12-23 m	2570	75
HIB3	Record or Recall	67.3	12-23 m	2570	75
HIB3	Record or Recall<12m	66.2	12-23 m	2570	75
IPV1	Recall	14.2	12-23 m	2570	75
IPV1	Record	33.6	12-23 m	2570	75
IPV1	Record or Recall	47.8	12-23 m	2570	75
IPV1	Record or Recall<12m	46.2	12-23 m	2570	75
MCV1	Recall	11.4	12-23 m	2570	75
MCV1	Record	42.3	12-23 m	2570	75
MCV1	Record or Recall	53.7	12-23 m	2570	75
MCV1	Record or Recall<12m	51.2	12-23 m	2570	75
PCV1	Recall	12.3	12-23 m	2570	75
PCV1	Record	45.2	12-23 m	2570	75
PCV1	Record or Recall	57.5	12-23 m	2570	75
PCV1	Record or Recall<12m	56.4	12-23 m	2570	75
PCV3	Recall	9	12-23 m	2570	75
PCV3	Record	40.4	12-23 m	2570	75
PCV3	Record or Recall	49.4	12-23 m	2570	75

PCV3	Record or Recall<12m	48	12-23 m	2570	75
POL1	Recall	13.3	12-23 m	2570	75
POL1	Record	66.6	12-23 m	2570	75
POL1	Record or Recall	79.9	12-23 m	2570	75
POL1	Record or Recall<12m	79.5	12-23 m	2570	75
POL3	Recall	1.9	12-23 m	2570	75
POL3	Record	56.2	12-23 m	2570	75
POL3	Record or Recall	58.1	12-23 m	2570	75
POL3	Record or Recall<12m	57.3	12-23 m	2570	75
RCV1	Recall	3.6	12-23 m	2570	75
RCV1	Record	28.5	12-23 m	2570	75
RCV1	Record or Recall	32.1	12-23 m	2570	75
RCV1	Record or Recall<12m	30.4	12-23 m	2570	75
YFV	Recall	9.6	12-23 m	2570	75
YFV	Record	47.8	12-23 m	2570	75
YFV	Record or Recall	57.4	12-23 m	2570	75
YFV	Record or Recall<12m	55.2	12-23 m	2570	75

2019 Enquete par Grappes a Indicateurs Multiples, Benin, 2021-2022

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Evidence seen
BCG	Recall	26.2	24-35 m	2467	58
BCG	Record	55.3	24-35 m	2467	58
BCG	Record or Recall	81.5	24-35 m	2467	58
BCG	Record or Recall<12m	80.9	24-35 m	2467	58
DTP1	Recall	22.1	24-35 m	2467	58
DTP1	Record	51.9	24-35 m	2467	58
DTP1	Record or Recall	74	24-35 m	2467	58
DTP1	Record or Recall<12m	72.1	24-35 m	2467	58
DTP3	Recall	16.7	24-35 m	2467	58
DTP3	Record	46.9	24-35 m	2467	58
DTP3	Record or Recall	63.6	24-35 m	2467	58
DTP3	Record or Recall<12m	61.6	24-35 m	2467	58
HEPB1	Recall	22.1	24-35 m	2467	58
HEPB1	Record	51.9	24-35 m	2467	58
HEPB1	Record or Recall	74	24-35 m	2467	58
HEPB1	Record or Recall<12m	72.1	24-35 m	2467	58
HEPB3	Recall	16.7	24-35 m	2467	58
HEPB3	Record	46.9	24-35 m	2467	58

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HEPB3	Record or Recall	63.6	24-35 m	2467	58
HEPB3	Record or Recall<12m	61.6	24-35 m	2467	58
HIB1	Recall	22.1	24-35 m	2467	58
HIB1	Record	51.9	24-35 m	2467	58
HIB1	Record or Recall	74	24-35 m	2467	58
HIB1	Record or Recall<12m	72.1	24-35 m	2467	58
HIB3	Recall	16.7	24-35 m	2467	58
HIB3	Record	46.9	24-35 m	2467	58
HIB3	Record or Recall	63.6	24-35 m	2467	58
HIB3	Record or Recall<12m	61.6	24-35 m	2467	58
IPV1	Recall	24.2	24-35 m	2467	58
IPV1	Record	22.8	24-35 m	2467	58
IPV1	Record or Recall	47	24-35 m	2467	58
IPV1	Record or Recall<12m	43.7	24-35 m	2467	58
MCV1	Recall	22.7	24-35 m	2467	58
MCV1	Record	30.7	24-35 m	2467	58
MCV1	Record or Recall	53.4	24-35 m	2467	58
MCV1	Record or Recall<12m	48.8	24-35 m	2467	58
PCV1	Recall	21.8	24-35 m	2467	58
PCV1	Record	32.2	24-35 m	2467	58
PCV1	Record or Recall	54	24-35 m	2467	58
PCV1	Record or Recall<12m	51.6	24-35 m	2467	58
PCV3	Recall	16.7	24-35 m	2467	58
PCV3	Record	28.3	24-35 m	2467	58
PCV3	Record or Recall	45	24-35 m	2467	58
PCV3	Record or Recall<12m	42.2	24-35 m	2467	58
POL1	Recall	23.7	24-35 m	2467	58
POL1	Record	51.3	24-35 m	2467	58
POL1	Record or Recall	75.1	24-35 m	2467	58
POL1	Record or Recall<12m	73.7	24-35 m	2467	58
POL3	Recall	3.1	24-35 m	2467	58
POL3	Record	45.8	24-35 m	2467	58
POL3	Record or Recall	48.9	24-35 m	2467	58
POL3	Record or Recall<12m	47.2	24-35 m	2467	58
RCV1	Recall	6.4	24-35 m	2467	58
RCV1	Record	18.1	24-35 m	2467	58
RCV1	Record or Recall	24.5	24-35 m	2467	58
RCV1	Record or Recall<12m	21.6	24-35 m	2467	58
YFV	Recall	19.6	24-35 m	2467	58
YFV	Record	35.9	24-35 m	2467	58

YFV	Record or Recall	55.5	24-35 m	2467	58
YFV	Record or Recall<12m	54.6	24-35 m	2467	58

2016 Bénin Enquête Démographique et de Santé 2017-2018

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Evidence seen
BCG	Recall	19	12-23 m	718	72
BCG	Record	69.2	12-23 m	1797	72
BCG	Record or Recall	88.2	12-23 m	2515	72
BCG	Record or Recall<12m	88.1	12-23 m	2515	72
DTP1	Recall	18	12-23 m	718	72
DTP1	Record	66.3	12-23 m	1797	72
DTP1	Record or Recall	84.2	12-23 m	2515	72
DTP1	Record or Recall<12m	84	12-23 m	2515	72
DTP3	Recall	12.5	12-23 m	718	72
DTP3	Record	60.5	12-23 m	1797	72
DTP3	Record or Recall	73	12-23 m	2515	72
DTP3	Record or Recall<12m	72.2	12-23 m	2515	72
HEPB1	Recall	18	12-23 m	718	72
HEPB1	Record	66.3	12-23 m	1797	72
HEPB1	Record or Recall	84.2	12-23 m	2515	72
HEPB1	Record or Recall<12m	84	12-23 m	2515	72
HEPB3	Recall	12.5	12-23 m	718	72
HEPB3	Record	60.5	12-23 m	1797	72
HEPB3	Record or Recall	73	12-23 m	2515	72
HEPB3	Record or Recall<12m	72.2	12-23 m	2515	72
HIB1	Recall	18	12-23 m	718	72
HIB1	Record	66.3	12-23 m	1797	72
HIB1	Record or Recall	84.2	12-23 m	2515	72
HIB1	Record or Recall<12m	84	12-23 m	2515	72
HIB3	Recall	12.5	12-23 m	718	72
HIB3	Record	60.5	12-23 m	1797	72
HIB3	Record or Recall	73	12-23 m	2515	72
HIB3	Record or Recall<12m	72.2	12-23 m	2515	72
MCV1	Recall	14.6	12-23 m	718	72
MCV1	Record	53.4	12-23 m	1797	72
MCV1	Record or Recall	67.9	12-23 m	2515	72
MCV1	Record or Recall<12m	64.5	12-23 m	2515	72
PCV1	Recall	17.6	12-23 m	718	72

Benin - Survey Details

PCV1	Record	63.6	12-23 m	1797	72	HEPB3	Recall	16.7	24-35 m	849	-
PCV1	Record or Recall	81.2	12-23 m	2515	72	HEPB3	Record	54.4	24-35 m	1517	-
PCV1	Record or Recall<12m	80.9	12-23 m	2515	72	HEPB3	Record or Recall	71.2	24-35 m	2365	-
PCV3	Recall	12.5	12-23 m	718	72	HEPB3	Record or Recall<12m	69.6	24-35 m	2365	-
PCV3	Record	58.3	12-23 m	1797	72	HIB1	Recall	22.5	24-35 m	849	-
PCV3	Record or Recall	70.8	12-23 m	2515	72	HIB1	Record	59.9	24-35 m	1517	-
PCV3	Record or Recall<12m	69.9	12-23 m	2515	72	HIB1	Record or Recall	82.4	24-35 m	2365	-
POL1	Recall	15.7	12-23 m	718	72	HIB1	Record or Recall<12m	81.1	24-35 m	2365	-
POL1	Record	66.5	12-23 m	1797	72	HIB3	Recall	16.7	24-35 m	849	-
POL1	Record or Recall	82.2	12-23 m	2515	72	HIB3	Record	54.4	24-35 m	1517	-
POL1	Record or Recall<12m	81.9	12-23 m	2515	72	HIB3	Record or Recall	71.2	24-35 m	2365	-
POL3	Recall	5.1	12-23 m	718	72	HIB3	Record or Recall<12m	69.6	24-35 m	2365	-
POL3	Record	60.4	12-23 m	1797	72	MCV1	Recall	18.9	24-35 m	849	-
POL3	Record or Recall	65.5	12-23 m	2515	72	MCV1	Record	47.9	24-35 m	1517	-
POL3	Record or Recall<12m	64.8	12-23 m	2515	72	MCV1	Record or Recall	66.8	24-35 m	2365	-
YFV	Recall	13.9	12-23 m	718	72	MCV1	Record or Recall<12m	61	24-35 m	2365	-
YFV	Record	50.3	12-23 m	1797	72	PCV1	Recall	21.8	24-35 m	849	-
YFV	Record or Recall	64.2	12-23 m	2515	72	PCV1	Record	57.1	24-35 m	1517	-
YFV	Record or Recall<12m	61	12-23 m	2515	72	PCV1	Record or Recall	78.9	24-35 m	2365	-

2015 Bénin Enquête Démographique et de Santé 2017-2018

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Evidence seen
BCG	Recall	23.4	24-35 m	849	-
BCG	Record	62.1	24-35 m	1517	-
BCG	Record or Recall	85.5	24-35 m	2365	-
BCG	Record or Recall<12m	84.6	24-35 m	2365	-
DTP1	Recall	22.5	24-35 m	849	-
DTP1	Record	59.9	24-35 m	1517	-
DTP1	Record or Recall	82.4	24-35 m	2365	-
DTP1	Record or Recall<12m	81.1	24-35 m	2365	-
DTP3	Recall	16.7	24-35 m	849	-
DTP3	Record	54.4	24-35 m	1517	-
DTP3	Record or Recall	71.2	24-35 m	2365	-
DTP3	Record or Recall<12m	69.6	24-35 m	2365	-
HEPB1	Recall	22.5	24-35 m	849	-
HEPB1	Record	59.9	24-35 m	1517	-
HEPB1	Record or Recall	82.4	24-35 m	2365	-
HEPB1	Record or Recall<12m	81.1	24-35 m	2365	-

2013 Benin: Enquete par grappes a indicateurs multiples (MICS) 2014

Benin - Survey Details

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Evidence seen
BCG	Record	70.8	12-23 m	2426	73
BCG	Record or Recall	89.8	12-23 m	2426	73
BCG	Record or Recall<12m	89.4	12-23 m	2426	73
DTP1	Record	68.2	12-23 m	2426	73
DTP1	Record or Recall	86.2	12-23 m	2426	73
DTP1	Record or Recall<12m	85.1	12-23 m	2426	73
DTP3	Record	61	12-23 m	2426	73
DTP3	Record or Recall	73.6	12-23 m	2426	73
DTP3	Record or Recall<12m	71	12-23 m	2426	73
HEPB1	Record	68.2	12-23 m	2426	73
HEPB1	Record or Recall	86.2	12-23 m	2426	73
HEPB1	Record or Recall<12m	85.1	12-23 m	2426	73
HEPB3	Record	61	12-23 m	2426	73
HEPB3	Record or Recall	73.6	12-23 m	2426	73
HEPB3	Record or Recall<12m	71	12-23 m	2426	73
HIB1	Record	68.2	12-23 m	2426	73
HIB1	Record or Recall	86.2	12-23 m	2426	73
HIB1	Record or Recall<12m	85.1	12-23 m	2426	73
HIB3	Record	61	12-23 m	2426	73
HIB3	Record or Recall	73.6	12-23 m	2426	73
HIB3	Record or Recall<12m	71	12-23 m	2426	73
MCV1	Record	53.3	12-23 m	2426	73
MCV1	Record or Recall	68.1	12-23 m	2426	73
MCV1	Record or Recall<12m	63.7	12-23 m	2426	73
PCV1	Record	61.4	12-23 m	2426	73
PCV1	Record or Recall	79.3	12-23 m	2426	73
PCV1	Record or Recall<12m	77.2	12-23 m	2426	73
PCV3	Record	54	12-23 m	2426	73
PCV3	Record or Recall	67.1	12-23 m	2426	73
PCV3	Record or Recall<12m	64.1	12-23 m	2426	73
POL1	Record	67.2	12-23 m	2426	73
POL1	Record or Recall	83.9	12-23 m	2426	73
POL1	Record or Recall<12m	83	12-23 m	2426	73
POL3	Record	57.8	12-23 m	2426	73
POL3	Record or Recall	64	12-23 m	2426	73
POL3	Record or Recall<12m	62.3	12-23 m	2426	73
YFV	Record	55.1	12-23 m	2426	73
YFV	Record or Recall	69.8	12-23 m	2426	73
YFV	Record or Recall<12m	65.1	12-23 m	2426	73

2012 Benin: Enquete par grappes a indicateurs multiples (MICS) 2014

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Evidence seen
BCG	Record	56	24-35 m	2415	-
BCG	Record or Recall	86.1	24-35 m	2415	-
BCG	Record or Recall<12m	84.7	24-35 m	2415	-
DTP1	Record	53.2	24-35 m	2415	-
DTP1	Record or Recall	81.4	24-35 m	2415	-
DTP1	Record or Recall<12m	79.5	24-35 m	2415	-
DTP3	Record	47.8	24-35 m	2415	-
DTP3	Record or Recall	68.4	24-35 m	2415	-
DTP3	Record or Recall<12m	65.2	24-35 m	2415	-
HEPB1	Record	53.2	24-35 m	2415	-
HEPB1	Record or Recall	81.4	24-35 m	2415	-
HEPB1	Record or Recall<12m	79.5	24-35 m	2415	-
HEPB3	Record	47.8	24-35 m	2415	-
HEPB3	Record or Recall	68.4	24-35 m	2415	-
HEPB3	Record or Recall<12m	65.2	24-35 m	2415	-
HIB1	Record	53.2	24-35 m	2415	-
HIB1	Record or Recall	81.4	24-35 m	2415	-
HIB1	Record or Recall<12m	79.5	24-35 m	2415	-
HIB3	Record	47.8	24-35 m	2415	-
HIB3	Record or Recall	68.4	24-35 m	2415	-
HIB3	Record or Recall<12m	65.2	24-35 m	2415	-
MCV1	Record	42.9	24-35 m	2415	-
MCV1	Record or Recall	66.9	24-35 m	2415	-
MCV1	Record or Recall<12m	59.8	24-35 m	2415	-
PCV1	Record	47.5	24-35 m	2415	-
PCV1	Record or Recall	76.6	24-35 m	2415	-
PCV1	Record or Recall<12m	73.7	24-35 m	2415	-
PCV3	Record	42	24-35 m	2415	-
PCV3	Record or Recall	63.5	24-35 m	2415	-
PCV3	Record or Recall<12m	60.5	24-35 m	2415	-
POL1	Record	52.6	24-35 m	2415	-
POL1	Record or Recall	79.8	24-35 m	2415	-
POL1	Record or Recall<12m	77.9	24-35 m	2415	-
POL3	Record	45.2	24-35 m	2415	-
POL3	Record or Recall	55.8	24-35 m	2415	-

Benin - Survey Details

POL3	Record or Recall<12m	53.3	24-35 m	2415	-
YFV	Record	44.1	24-35 m	2415	-
YFV	Record or Recall	68.6	24-35 m	2415	-
YFV	Record or Recall<12m	61	24-35 m	2415	-

2012 Revue externe du système de vaccination au Bénin en 2014

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Evidence seen
BCG	Record	97	12-23 m	15813	89
BCG	Record or Recall	98	12-23 m	15813	89
DTP1	Record	82	12-23 m	15813	89
DTP1	Record or Recall	96	12-23 m	15813	89
DTP3	Record	74	12-23 m	15813	89
DTP3	Record or Recall	86	12-23 m	15813	89
HEPB1	Record	82	12-23 m	15813	89
HEPB1	Record or Recall	96	12-23 m	15813	89
HEPB3	Record	74	12-23 m	15813	89
HEPB3	Record or Recall	86	12-23 m	15813	89
HIB1	Record	82	12-23 m	15813	89
HIB1	Record or Recall	96	12-23 m	15813	89
HIB3	Record	74	12-23 m	15813	89
HIB3	Record or Recall	86	12-23 m	15813	89
MCV1	Record	68	12-23 m	15813	89
MCV1	Record or Recall	80	12-23 m	15813	89

2011 Enquête Démographique et de Santé du Bénin EDSB IV 2011-2012

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Evidence seen
BCG	Recall	35	12-23 m	1159	54
BCG	Record	53.3	12-23 m	1375	54
BCG	Record or Recall	88.3	12-23 m	2534	54
BCG	Record or Recall<12m	87.1	12-23 m	2535	54
DTP1	Recall	33.6	12-23 m	1159	54
DTP1	Record	51.8	12-23 m	1375	54
DTP1	Record or Recall	85.4	12-23 m	2534	54
DTP1	Record or Recall<12m	84.5	12-23 m	2535	54
DTP3	Recall	27.4	12-23 m	1159	54

DTP3	Record	46.3	12-23 m	1375	54
DTP3	Record or Recall	73.7	12-23 m	2534	54
DTP3	Record or Recall<12m	80.1	12-23 m	2535	54
HEPB1	Record	49.2	12-23 m	1375	54
HEPB1	Record or Recall	49.2	12-23 m	2534	54
HEPB1	Record or Recall<12m	48.7	12-23 m	2535	54
HEPB3	Record	44.5	12-23 m	1375	54
HEPB3	Record or Recall	44.5	12-23 m	2534	54
HEPB3	Record or Recall<12m	42.8	12-23 m	2535	54
HIB1	Record	49.2	12-23 m	1375	54
HIB1	Record or Recall	49.2	12-23 m	2534	54
HIB1	Record or Recall<12m	48.7	12-23 m	2535	54
HIB3	Record	44.5	12-23 m	1375	54
HIB3	Record or Recall	44.5	12-23 m	2534	54
HIB3	Record or Recall<12m	42.8	12-23 m	2535	54
MCV1	Recall	28.3	12-23 m	1159	54
MCV1	Record	41.7	12-23 m	1375	54
MCV1	Record or Recall	70	12-23 m	2534	54
MCV1	Record or Recall<12m	62.2	12-23 m	2535	54
POL1	Recall	34.5	12-23 m	1159	54
POL1	Record	50.4	12-23 m	1375	54
POL1	Record or Recall	84.9	12-23 m	2534	54
POL1	Record or Recall<12m	83.9	12-23 m	2535	54
POL3	Recall	11.5	12-23 m	1159	54
POL3	Record	44.7	12-23 m	1375	54
POL3	Record or Recall	56.2	12-23 m	2534	54
POL3	Record or Recall<12m	54.5	12-23 m	2535	54
YFV	Record	31.2	12-23 m	1375	54
YFV	Record or Recall	31.2	12-23 m	2534	54
YFV	Record or Recall<12m	23.7	12-23 m	2534	54

2007 Revue externe 2008 du Programme Elargi de Vaccination

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Evidence seen
BCG	Record	94	12-23 m	7105	77
BCG	Record or Recall	97	12-23 m	7105	77
DTP1	Record	71	12-23 m	7105	77
DTP1	Record or Recall	94	12-23 m	7105	77
DTP3	Record	62	12-23 m	7105	77

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DTP3	Record or Recall	82	12-23 m	7105	77
HEPB1	Record	71	12-23 m	7105	77
HEPB1	Record or Recall	94	12-23 m	7105	77
HEPB3	Record	62	12-23 m	7105	77
HEPB3	Record or Recall	82	12-23 m	7105	77
HIB1	Record	71	12-23 m	7105	77
HIB1	Record or Recall	94	12-23 m	7105	77
HIB3	Record	62	12-23 m	7105	77
HIB3	Record or Recall	82	12-23 m	7105	77
MCV1	Record	53	12-23 m	7105	77
MCV1	Record or Recall	70	12-23 m	7105	77
POL1	Record	70	12-23 m	7105	77
POL1	Record or Recall	93	12-23 m	7105	77
POL3	Record	62	12-23 m	7105	77
POL3	Record or Recall	82	12-23 m	7105	77

POL3	Recall	11.7	12-23 m	3005	66
POL3	Record	52.2	12-23 m	3005	66
POL3	Record or Recall	63.9	12-23 m	3005	66
POL3	Record or Recall<12m	61.6	12-23 m	3005	66

2000 Benin, Revue Externe du Programme Elargi de Vaccination, 2001

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Evidence seen
BCG	Record or Recall	94	12-23 m	2699	85
DTP1	Record or Recall	91	12-23 m	2699	85
DTP3	Record or Recall	79	12-23 m	2699	85
MCV1	Record or Recall	72	12-23 m	2699	85
POL1	Record or Recall	92	12-23 m	2699	85
POL3	Record or Recall	78	12-23 m	2699	85

2005 Enquête Démographique et de Santé au Bénin de 2006

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Evidence seen
BCG	Recall	23.1	12-23 m	3005	66
BCG	Record	65.2	12-23 m	3005	66
BCG	Record or Recall	88.3	12-23 m	3005	66
BCG	Record or Recall<12m	87.9	12-23 m	3005	66
DTP1	Recall	21.8	12-23 m	3005	66
DTP1	Record	62.2	12-23 m	3005	66
DTP1	Record or Recall	84	12-23 m	3005	66
DTP1	Record or Recall<12m	83.2	12-23 m	3005	66
DTP3	Recall	14.9	12-23 m	3005	66
DTP3	Record	52.1	12-23 m	3005	66
DTP3	Record or Recall	67	12-23 m	3005	66
DTP3	Record or Recall<12m	64.5	12-23 m	3005	66
MCV1	Recall	16.5	12-23 m	3005	66
MCV1	Record	44.6	12-23 m	3005	66
MCV1	Record or Recall	61.1	12-23 m	3005	66
MCV1	Record or Recall<12m	51.1	12-23 m	3005	66
POL1	Recall	25.2	12-23 m	3005	66
POL1	Record	63.4	12-23 m	3005	66
POL1	Record or Recall	88.6	12-23 m	3005	66
POL1	Record or Recall<12m	87.6	12-23 m	3005	66

2000 Enquête Démographique et de Santé au Bénin 2001, 2002

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Evidence seen
BCG	Recall	17.5	12-23 m	932	73
BCG	Record	72.4	12-23 m	932	73
BCG	Record or Recall	89.9	12-23 m	932	73
BCG	Record or Recall<12m	89.2	12-23 m	932	73
DTP1	Recall	15.9	12-23 m	932	73
DTP1	Record	71.3	12-23 m	932	73
DTP1	Record or Recall	87.2	12-23 m	932	73
DTP1	Record or Recall<12m	86.2	12-23 m	932	73
DTP3	Recall	10.1	12-23 m	932	73
DTP3	Record	62.4	12-23 m	932	73
DTP3	Record or Recall	72.5	12-23 m	932	73
DTP3	Record or Recall<12m	68.5	12-23 m	932	73
MCV1	Recall	10.2	12-23 m	932	73
MCV1	Record	57.8	12-23 m	932	73
MCV1	Record or Recall	68	12-23 m	932	73
MCV1	Record or Recall<12m	55.9	12-23 m	932	73
POL1	Recall	18.5	12-23 m	932	73
POL1	Record	71.5	12-23 m	932	73
POL1	Record or Recall	90	12-23 m	932	73

POL1	Record or Recall<12m	88.8	12-23 m	932	73						
POL3	Recall	7.7	12-23 m	932	73						
POL3	Record	61.7	12-23 m	932	73						
						POL3	Record or Recall	69.3	12-23 m	932	73
						POL3	Record or Recall<12m	65.9	12-23 m	932	73

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