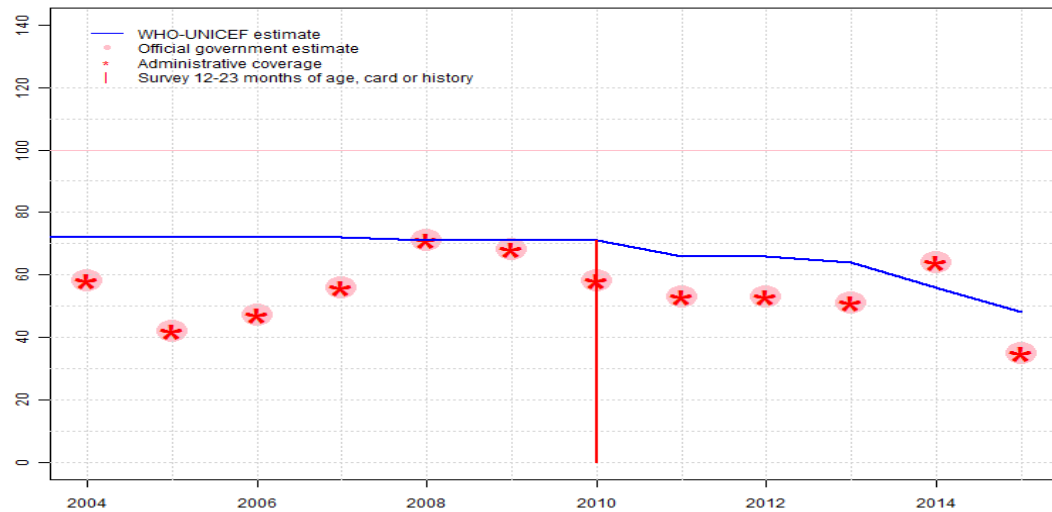


Equatorial Guinea - BCG

GNQ - BCG



	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Estimate	72	72	72	72	71	71	71	66	66	64	56	48
Estimate GoC	•	•	•	•	•	•	•	•	•	•	•	•
Official	58	42	47	56	71	68	58	53	53	51	64	35
Administrative	58	42	47	56	71	68	58	53	53	51	64	35
Survey	NA	NA	NA	NA	NA	NA	71	NA	NA	NA	NA	NA

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

- Estimate is supported by reported data [R+], coverage recalculated with an independent denominator from the World Population Prospects: 2015 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:

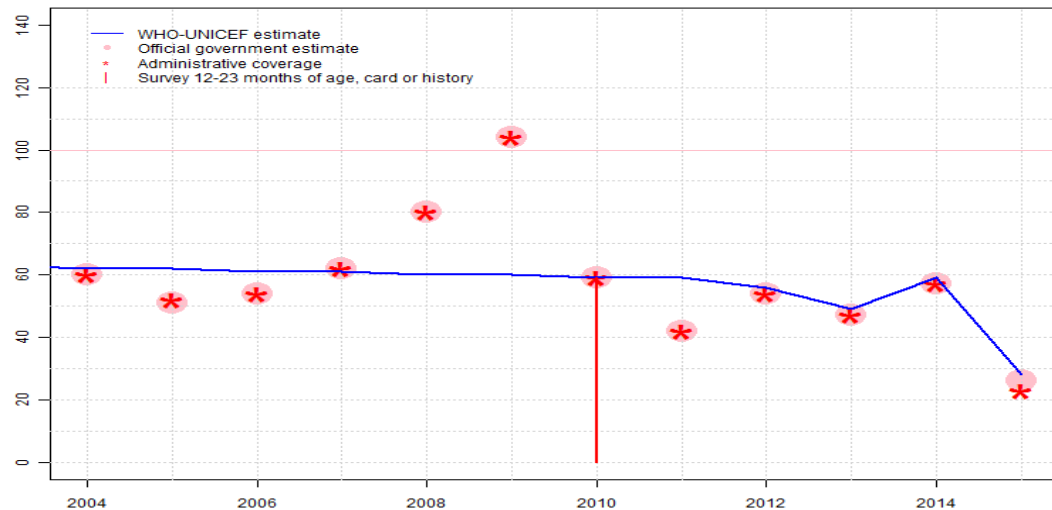
- 2004: Estimate based on interpolation between 1999 and 2010 levels. Unexplained temporal change in numerator and denominator levels. Estimate challenged by: D-R-
- 2005: Estimate based on interpolation between 1999 and 2010 levels. Unexplained temporal change in numerator and denominator levels. Estimate challenged by: D-R-
- 2006: Estimate based on interpolation between 1999 and 2010 levels. Unexplained temporal change in numerator and denominator levels. Estimate challenged by: D-R-
- 2007: Estimate based on interpolation between 1999 and 2010 levels. Unexplained temporal change in numerator and denominator levels. Estimate challenged by: D-R-
- 2008: Estimate based on interpolation between 1999 and 2010 levels. Unexplained temporal change in numerator and denominator levels. Estimate challenged by: R-
- 2009: Estimate based on interpolation between 1999 and 2010 levels. Unexplained temporal change in numerator and denominator levels. Estimate challenged by: R-
- 2010: Survey evidence does not support reported data. Estimate based on survey results. Survey evidence of 71 percent based on 1 survey(s). GoC=Assigned by working group. Fluctuation in reported coverage across the time series suggests challenges in routine monitoring system.
- 2011: Reported data calibrated to 2010 levels. Estimate of 66 percent changed from previous revision value of 73 percent. GoC=Assigned by working group. Fluctuation in reported coverage across the time series suggests challenges in routine monitoring system.
- 2012: Reported data calibrated to 2010 levels. Estimate of 66 percent changed from previous revision value of 73 percent. GoC=Assigned by working group. Fluctuation in reported coverage across the time series suggests challenges in routine monitoring system.
- 2013: Reported data calibrated to 2010 levels. Estimate of 64 percent changed from previous revision value of 71 percent. GoC=Assigned by working group. Fluctuation in reported coverage across the time series suggests challenges in routine monitoring system.
- 2014: Reported data calibrated to 2010 levels. Reported data excluded. Unexplained increase from 51 percent to 64 percent with decrease 35 percent. Estimate of 56 percent changed from previous revision value of 71 percent. GoC=Assigned by working group. Fluctuation in reported coverage across the time series suggests challenges in routine monitoring system.
- 2015: Reported data calibrated to 2010 levels. Fluctuations in reported data over time suggest poor quality administrative recording and reporting systems.

Equatorial Guinea - BCG

WHO and UNICEF are aware of an ongoing Multiple Indicator Cluster Survey and await the final results. Programme reports district level stock-out of unknown duration. GoC=Assigned by working group. Fluctuation in reported coverage across the time series suggests challenges in routine monitoring system.

Equatorial Guinea - DTP1

GNQ - DTP1



	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Estimate	62	62	61	61	60	60	59	59	56	49	59	28
Estimate GoC	•	•	•	•	•	•	•	•	•	•	•	•
Official	60	51	54	62	80	104	59	42	54	47	57	26
Administrative	60	52	54	62	80	104	59	42	54	47	57	23
Survey	NA	NA	NA	NA	NA	NA	59	NA	NA	NA	NA	NA

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

- Estimate is supported by reported data [R+], coverage recalculated with an independent denominator from the World Population Prospects: 2015 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:

- 2004: Estimate based on interpolation between 1999 and 2010 levels. Unexplained temporal change in numerator and denominator levels. Estimate challenged by: R-
- 2005: Estimate based on interpolation between 1999 and 2010 levels. Unexplained temporal change in numerator and denominator levels. Estimate challenged by: D-R-
- 2006: Estimate based on interpolation between 1999 and 2010 levels. Unexplained temporal change in numerator and denominator levels. Estimate challenged by: D-R-
- 2007: Estimate based on interpolation between 1999 and 2010 levels. Unexplained temporal change in numerator and denominator levels. Estimate challenged by: R-
- 2008: Estimate based on interpolation between 1999 and 2010 levels. Unexplained temporal change in numerator and denominator levels. Estimate challenged by: D-R-
- 2009: Estimate based on interpolation between 1999 and 2010 levels. Unexplained temporal change in numerator and denominator levels. Reported data excluded. 104 percent greater than 100 percent. Reported data excluded. Unexplained increase from 80 percent to 104 percent with decrease 59 percent. Estimate challenged by: D-R-
- 2010: Estimate based on coverage reported by national government supported by survey. Survey evidence of 59 percent based on 1 survey(s). The use of pentavalent DTP-HepB-Hib combination vaccine or trivalent DTP vaccine is unclear based on inconsistent information received by WHO and UNICEF from the programme, the 2011 DHS report and review of existing home-based vaccination records used at the time. GoC=Assigned by working group. Fluctuation in reported coverage across the time series suggests challenges in routine monitoring system.
- 2011: Estimate based on survey results. Reported data excluded. Decline in reported coverage from 59 percent to 42 percent with increase to 54 percent. Estimate of 59 percent changed from previous revision value of 65 percent. GoC=Assigned by working group. Fluctuation in reported coverage across the time series suggests challenges in routine monitoring system.
- 2012: Reported data calibrated to 2011 levels. Estimate of 56 percent changed from previous revision value of 62 percent. GoC=Assigned by working group. Fluctuation in reported coverage across the time series suggests challenges in routine monitoring system.
- 2013: Reported data calibrated to 2011 levels. Decline in coverage reflects six month stockout at national level. Estimate of 49 percent changed from previous revision value of 55 percent. GoC=Assigned by working group. Fluctuation in reported coverage across the time series suggests challenges

Equatorial Guinea - DTP1

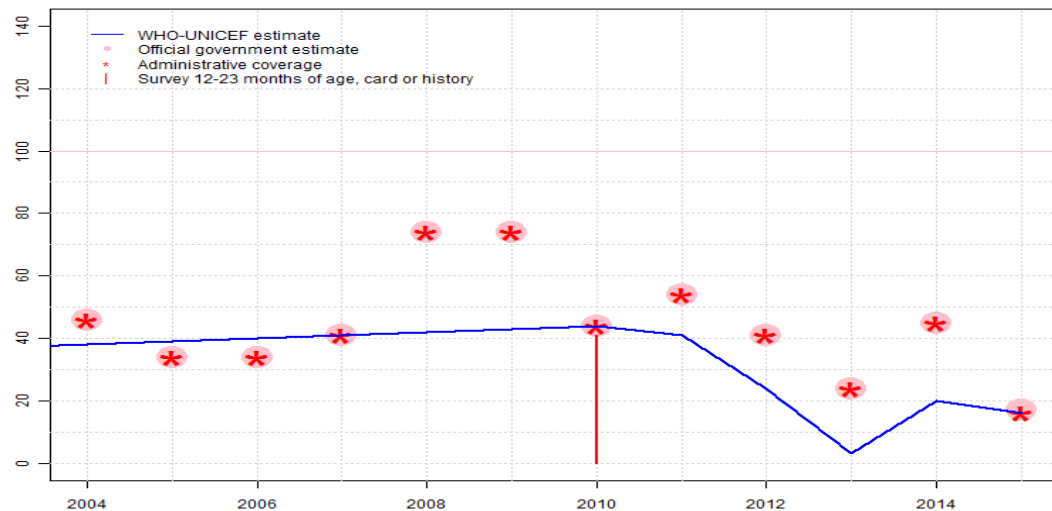
in routine monitoring system.

2014: Reported data calibrated to 2011 levels. Estimate of 59 percent changed from previous revision value of 65 percent. GoC=Assigned by working group. Fluctuation in reported coverage across the time series suggests challenges in routine monitoring system.

2015: Reported data calibrated to 2011 levels. Fluctuations in reported data over time suggest poor quality administrative recording and reporting systems. WHO and UNICEF are aware of an ongoing Multiple Indicator Cluster Survey and await the final results. Programme reports four month stock-out of DTP-HepB-Hib vaccine. GoC=Assigned by working group. Fluctuation in reported coverage across the time series suggests challenges in routine monitoring system.

Equatorial Guinea - DTP3

GNQ - DTP3



	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Estimate	38	39	40	41	42	43	44	41	24	3	20	16
Estimate GoC	•	•	•	•	•	•	•	•	•	•	•	•
Official	46	34	34	41	74	74	44	54	41	24	45	17
Administrative	46	34	34	41	74	74	44	54	41	24	45	16
Survey	NA	NA	NA	NA	NA	NA	41	NA	NA	NA	NA	NA

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

- Estimate is supported by reported data [R+], coverage recalculated with an independent denominator from the World Population Prospects: 2015 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:

- 2004: Estimate based on interpolation between 1999 and 2010 levels. Unexplained temporal change in numerator and denominator levels. Estimate challenged by: R-
- 2005: Estimate based on interpolation between 1999 and 2010 levels. Unexplained temporal change in numerator and denominator levels. Estimate challenged by: R-
- 2006: Estimate based on interpolation between 1999 and 2010 levels. Unexplained temporal change in numerator and denominator levels. Estimate challenged by: R-
- 2007: Estimate based on interpolation between 1999 and 2010 levels. Unexplained temporal change in numerator and denominator levels. Estimate challenged by: R-
- 2008: Estimate based on interpolation between 1999 and 2010 levels. Unexplained temporal change in numerator and denominator levels. Estimate challenged by: D-R-
- 2009: Estimate based on interpolation between 1999 and 2010 levels. Unexplained temporal change in numerator and denominator levels. Estimate challenged by: D-R-
- 2010: Estimate based on coverage reported by national government supported by survey. Survey evidence of 54 percent based on 1 survey(s). Equatorial Guinea Demographic and Health Survey 2011 card or history results of 41 percent modified for recall bias to 54 percent based on 1st dose card or history coverage of 59 percent, 1st dose card only coverage of 33 percent and 3d dose card only coverage of 30 percent. The use of pentavalent DTP-HepB-Hib combination vaccine or trivalent DTP vaccine is unclear based on inconsistent information received by WHO and UNICEF from the programme, the 2011 DHS report and review of existing home-based vaccination records used at the time. GoC=Assigned by working group. Fluctuation in reported coverage across the time series suggests challenges in routine monitoring system.
- 2011: Estimate based on survey results. Estimate of 41 percent changed from previous revision value of 33 percent. GoC=Assigned by working group. Fluctuation in reported coverage across the time series suggests challenges in routine monitoring system.
- 2012: Reported data calibrated to 2011 and 2015 levels. Estimate of 24 percent changed from previous revision value of 20 percent. GoC=Assigned by working group. Fluctuation in reported coverage across the time series suggests challenges in routine monitoring system.
- 2013: Reported data calibrated to 2011 and 2015 levels. Decline in coverage reflects six month stockout at national level. GoC=Assigned by working group. Fluctuation in reported coverage across the time series suggests challenges

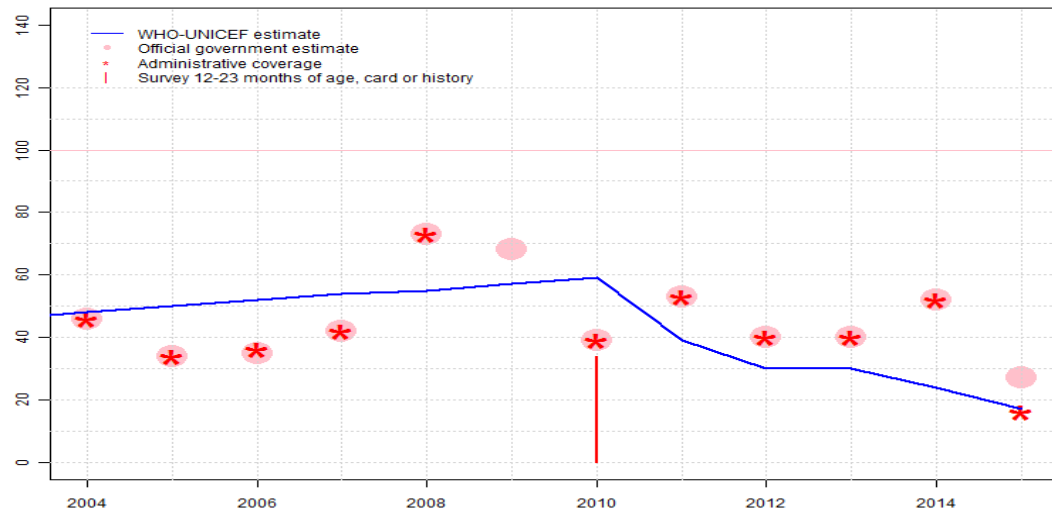
in routine monitoring system.

2014: Reported data calibrated to 2011 and 2015 levels. Recovery from stock-out during prior year. Estimate of 20 percent changed from previous revision value of 24 percent. GoC=Assigned by working group. Fluctuation in reported coverage across the time series suggests challenges in routine monitoring system.

2015: Programme reports four month stock-out of DTP-HepB-Hib vaccine. Reported data excluded. Change in reported coverage from 45 level to 17 percent. Fluctuations in reported data over time suggest poor quality administrative recording and reporting systems. WHO and UNICEF are aware of an ongoing Multiple Indicator Cluster Survey and await the final results. GoC=Assigned by working group. Fluctuation in reported coverage across the time series suggests challenges in routine monitoring system.

Equatorial Guinea - Pol3

GNQ - Pol3



	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Estimate	48	50	52	54	55	57	59	39	30	30	24	17
Estimate GoC	•	•	•	•	•	•	•	•	•	•	•	•
Official	46	34	35	42	73	68	39	53	40	40	52	27
Administrative	46	34	36	42	73	NA	39	53	40	40	52	16
Survey	NA	NA	NA	NA	NA	NA	34	NA	NA	NA	NA	NA

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

- Estimate is supported by reported data [R+], coverage recalculated with an independent denominator from the World Population Prospects: 2015 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:

- 2004: Estimate based on interpolation between 1999 and 2010 levels. Unexplained temporal change in numerator and denominator levels. Estimate challenged by: R-
- 2005: Estimate based on interpolation between 1999 and 2010 levels. Unexplained temporal change in numerator and denominator levels. Estimate challenged by: D-R-
- 2006: Estimate based on interpolation between 1999 and 2010 levels. Unexplained temporal change in numerator and denominator levels. Estimate challenged by: D-R-
- 2007: Estimate based on interpolation between 1999 and 2010 levels. Unexplained temporal change in numerator and denominator levels. Estimate challenged by: D-R-
- 2008: Estimate based on interpolation between 1999 and 2010 levels. Unexplained temporal change in numerator and denominator levels. Estimate challenged by: D-R-
- 2009: Estimate based on interpolation between 1999 and 2010 levels. Unexplained temporal change in numerator and denominator levels. Estimate challenged by: R-
- 2010: Estimate based on interpolation between data reported by national government supported by survey. Survey evidence of 59 percent based on 1 survey(s). Equatorial Guinea Demographic and Health Survey 2011 card or history results of 34 percent modified for recall bias to 59 percent based on 1st dose card or history coverage of 64 percent, 1st dose card only coverage of 35 percent and 3d dose card only coverage of 32 percent. Reported data excluded. Decline in reported coverage from 68 percent to 39 percent with increase to 53 percent. GoC=Assigned by working group. Fluctuation in reported coverage across the time series suggests challenges in routine monitoring system.
- 2011: Estimate based on survey results. Reported data excluded. Unexplained increase from 39 percent to 53 percent with decrease 40 percent. GoC=Assigned by working group. Fluctuation in reported coverage across the time series suggests challenges in routine monitoring system.
- 2012: Reported data calibrated to 2011 levels. GoC=Assigned by working group. Fluctuation in reported coverage across the time series suggests challenges in routine monitoring system.
- 2013: Reported data calibrated to 2011 levels. GoC=Assigned by working group. Fluctuation in reported coverage across the time series suggests challenges in routine monitoring system.
- 2014: Reported data calibrated to 2011 levels. Reported data excluded. Unexplained increase from 40 percent to 52 percent with decrease 27 percent. Estimate of 24 percent changed from previous revision value of 30 percent.

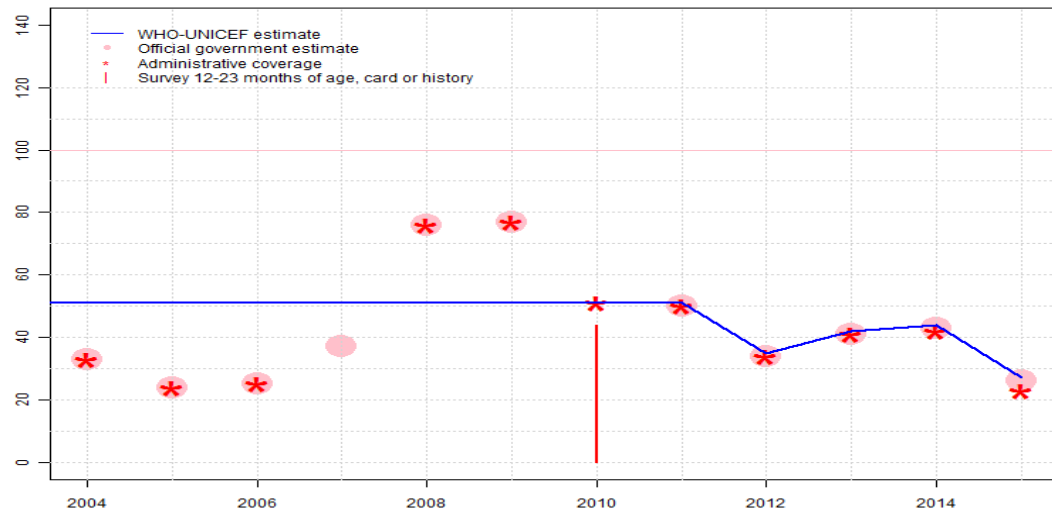
Equatorial Guinea - Pol3

GoC=Assigned by working group. Fluctuation in reported coverage across the time series suggests challenges in routine monitoring system.

2015: Reported data calibrated to 2011 levels. Fluctuations in reported data over time suggest poor quality administrative recording and reporting systems. WHO and UNICEF are aware of an ongoing Multiple Indicator Cluster Survey and await the final results. . GoC=Assigned by working group. Fluctuation in reported coverage across the time series suggests challenges in routine monitoring system.

Equatorial Guinea - MCV1

GNQ - MCV1



	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Estimate	51	51	51	51	51	51	51	51	35	42	44	27
Estimate GoC	•	•	•	•	•	•	•	•	•	•	•	•
Official	33	24	25	37	76	77	NA	50	34	41	43	26
Administrative	33	24	25	NA	76	77	51	50	34	41	42	23
Survey	NA	NA	NA	NA	NA	NA	44	NA	NA	NA	NA	NA

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

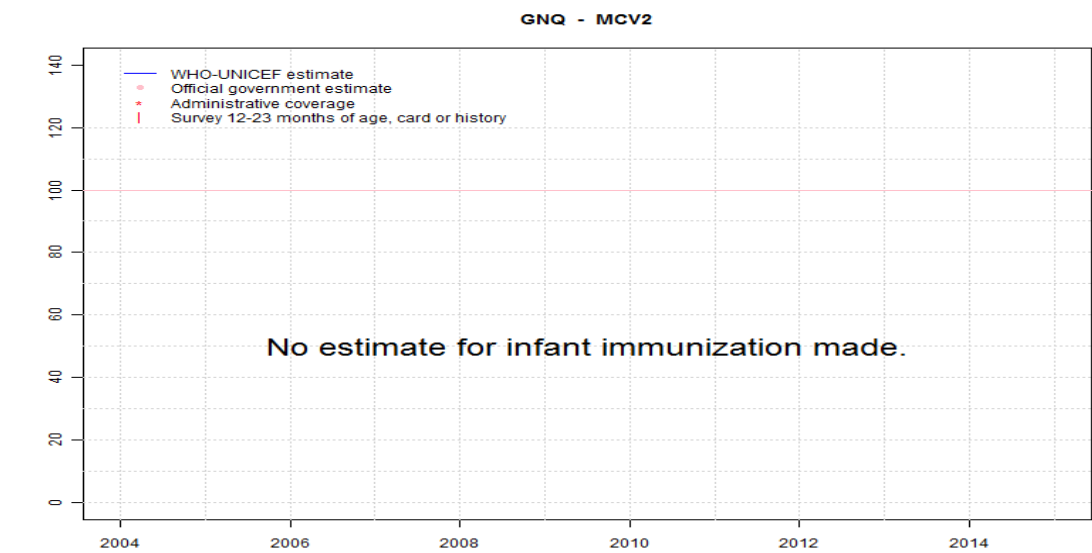
- Estimate is supported by reported data [R+], coverage recalculated with an independent denominator from the World Population Prospects: 2015 revision from the UN Population Division (D+), and at least one supporting survey within 2 years [S+]. While well supported, the estimate still carries a risk 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:

- 2004: Estimate based on interpolation between 1999 and 2010 levels. Unexplained temporal change in numerator and denominator levels. Estimate challenged by: D-R-
- 2005: Estimate based on interpolation between 1999 and 2010 levels. Unexplained temporal change in numerator and denominator levels. Estimate challenged by: D-R-
- 2006: Estimate based on interpolation between 1999 and 2010 levels. Unexplained temporal change in numerator and denominator levels. Estimate challenged by: D-R-
- 2007: Estimate based on interpolation between 1999 and 2010 levels. Unexplained temporal change in numerator and denominator levels. Estimate challenged by: R-
- 2008: Estimate based on interpolation between 1999 and 2010 levels. Unexplained temporal change in numerator and denominator levels. Estimate challenged by: D-R-
- 2009: Estimate based on interpolation between 1999 and 2010 levels. Unexplained temporal change in numerator and denominator levels. Estimate challenged by: D-R-
- 2010: Estimate based on administrative data reported by national government supported by survey. Survey evidence of 44 percent based on 1 survey(s). GoC=Assigned by working group. Fluctuation in reported coverage across the time series suggests challenges in routine monitoring system.
- 2011: Estimate based on survey results. GoC=Assigned by working group. Fluctuation in reported coverage across the time series suggests challenges in routine monitoring system.
- 2012: Reported data calibrated to 2011 levels. GoC=Assigned by working group. Fluctuation in reported coverage across the time series suggests challenges in routine monitoring system.
- 2013: Reported data calibrated to 2011 levels. GoC=Assigned by working group. Fluctuation in reported coverage across the time series suggests challenges in routine monitoring system.
- 2014: Reported data calibrated to 2011 levels. GoC=Assigned by working group. Fluctuation in reported coverage across the time series suggests challenges in routine monitoring system.
- 2015: Reported data calibrated to 2011 levels. Fluctuations in reported data over time suggest poor quality administrative recording and reporting systems. WHO and UNICEF are aware of an ongoing Multiple Indicator Cluster Survey and await the final results. . GoC=Assigned by working group. Fluctuation in reported coverage across the time series suggests challenges in routine monitoring system.

Equatorial Guinea - MCV2



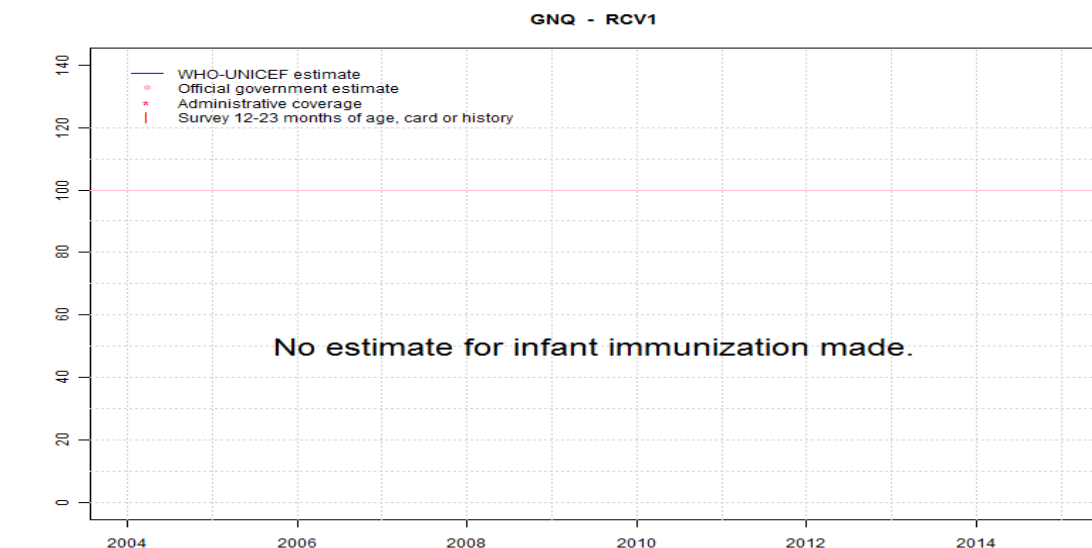
	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Estimate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Estimate GoC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Official	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Administrative	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Survey	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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

- Estimate is supported by reported data [R+], coverage recalculated with an independent denominator from the World Population Prospects: 2015 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.

Equatorial Guinea - RCV1

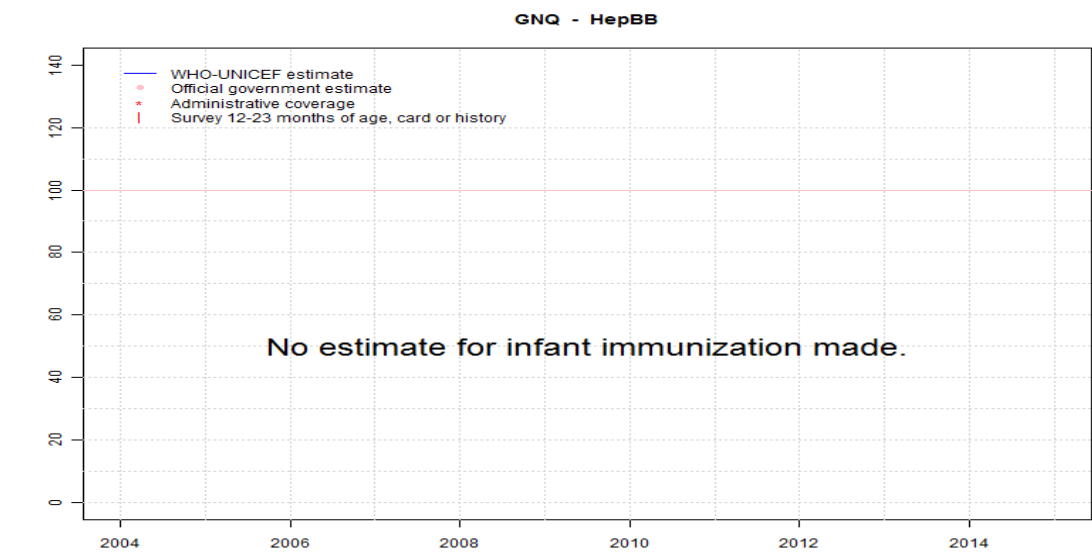


	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Estimate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Estimate GoC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Official	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Administrative	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Survey	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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

- Estimate is supported by reported data [R+], coverage recalculated with an independent denominator from the World Population Prospects: 2015 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.



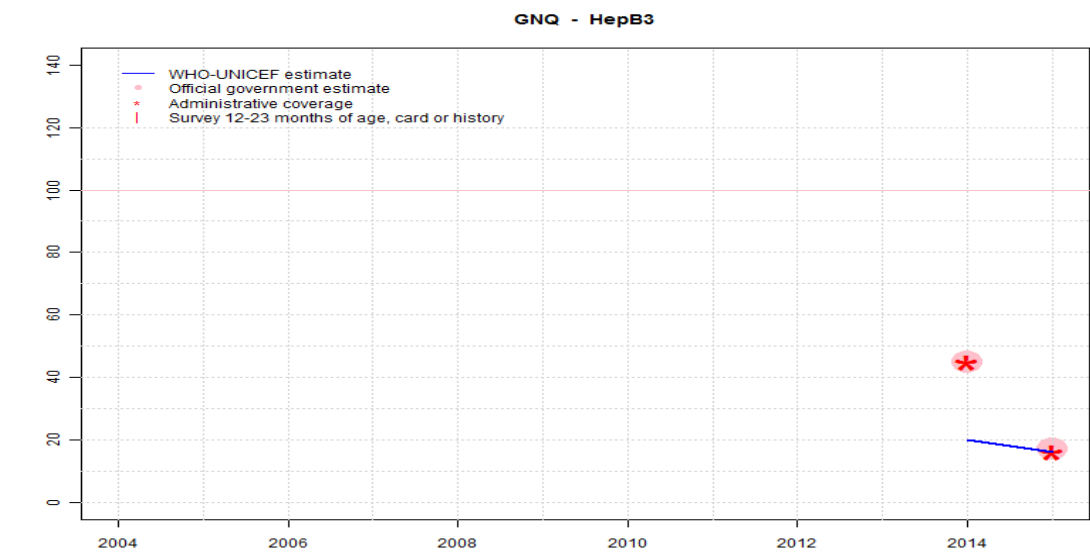
	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Estimate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Estimate GoC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Official	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Administrative	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Survey	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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

- Estimate is supported by reported data [R+], coverage recalculated with an independent denominator from the World Population Prospects: 2015 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.

Equatorial Guinea - HepB3



	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Estimate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	20	16
Estimate GoC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	●	●
Official	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	45	17
Administrative	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	45	16
Survey	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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

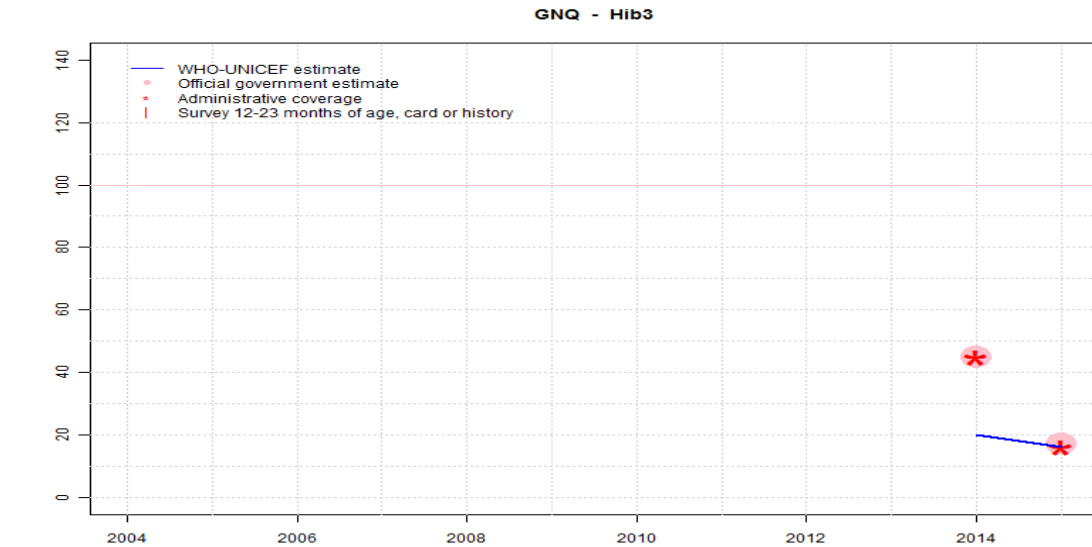
- Estimate is supported by reported data [R+], coverage recalculated with an independent denominator from the World Population Prospects: 2015 revision from the UN Population Division (D+), and at least one supporting survey within 2 years [S+]. While well supported, the estimate still carries a risk 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:

- 2014: HepB containing vaccine introduced during 2013 in pentavalent DTP-HepB-Hib. Reporting began during 2014. Estimate is based on estimated DTP coverage level. Estimate of 20 percent changed from previous revision value of 24 percent. GoC=Assigned by working group. Fluctuation in reported coverage across the time series suggests challenges in routine monitoring system.
- 2015: Programme reports four month stock-out of DTP-HepB-Hib vaccine. Estimate follows DTP level. Reported data excluded. Decline in reported coverage from 45 level to 17 percent. Fluctuations in reported data over time suggest poor quality administrative recording and reporting systems. WHO and UNICEF are aware of an ongoing Multiple Indicator Cluster Survey and await the final results. GoC=Assigned by working group. Fluctuation in reported coverage across the time series suggests challenges in routine monitoring system.

Equatorial Guinea - Hib3



	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Estimate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	20	16
Estimate GoC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	●	●
Official	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	45	17
Administrative	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	45	16
Survey	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

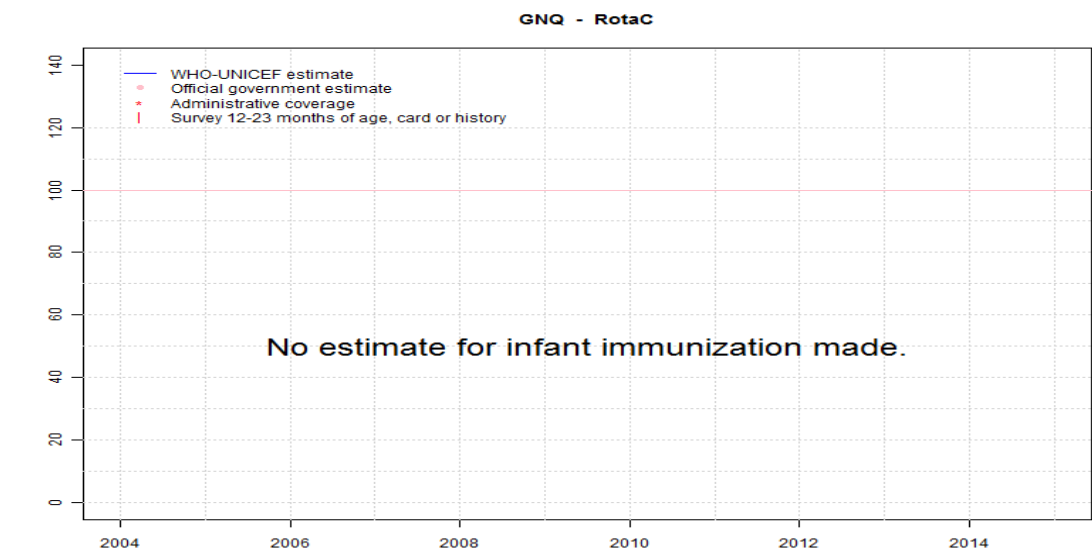
The WHO and UNICEF estimates of national immunization coverage (wuenic) are based on data and information that are of varying, and, in some instances, unknown quality. Beginning with the 2011 revision we describe the grade of confidence (GoC) we have in these estimates. As there is no underlying probability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

- Estimate is supported by reported data [R+], coverage recalculated with an independent denominator from the World Population Prospects: 2015 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:

- 2014: Hib containing vaccine introduced during 2013 in pentavalent DTP-HepB-Hib. Reporting began during 2014. Estimate is based on estimated DTP coverage level. Estimate of 20 percent changed from previous revision value of 24 percent. GoC=Assigned by working group. Fluctuation in reported coverage across the time series suggests challenges in routine monitoring system.
- 2015: Programme reports four month stock-out of DTP-HepB-Hib vaccine. Estimate follows DTP level. Reported data excluded. Decline in reported coverage from 45 level to 17 percent. Fluctuations in reported data over time suggest poor quality administrative recording and reporting systems. WHO and UNICEF are aware of an ongoing Multiple Indicator Cluster Survey and await the final results. GoC=Assigned by working group. Fluctuation in reported coverage across the time series suggests challenges in routine monitoring system.



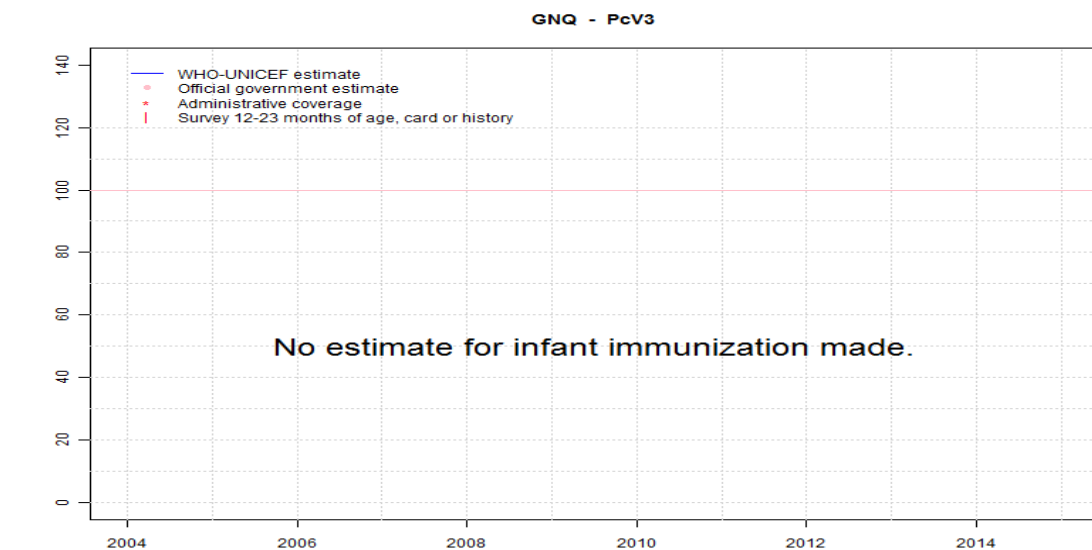
	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Estimate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Estimate GoC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Official	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Administrative	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Survey	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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

- Estimate is supported by reported data [R+], coverage recalculated with an independent denominator from the World Population Prospects: 2015 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.

Equatorial Guinea - PcV3



	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Estimate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Estimate GoC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Official	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Administrative	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Survey	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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

- Estimate is supported by reported data [R+], coverage recalculated with an independent denominator from the World Population Prospects: 2015 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.

Equatorial Guinea - survey details

2010 Guinée Équatoriale Enquête Démographique et de Santé 2011

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	C or H <12 months	71	12-23 m	529	37
BCG	Card	37	12-23 m	197	37
BCG	Card or History	71	12-23 m	529	37
BCG	History	34	12-23 m	332	37
DTP1	C or H <12 months	59	12-23 m	529	37
DTP1	Card	33	12-23 m	197	37
DTP1	Card or History	59	12-23 m	529	37
DTP1	History	26	12-23 m	332	37
DTP3	C or H <12 months	41	12-23 m	529	37
DTP3	Card	30	12-23 m	197	37
DTP3	Card or History	41	12-23 m	529	37
DTP3	History	12	12-23 m	332	37
MCV1	C or H <12 months	40	12-23 m	529	37
MCV1	Card	27	12-23 m	197	37
MCV1	Card or History	44	12-23 m	529	37
MCV1	History	17	12-23 m	332	37
Pol1	C or H <12 months	64	12-23 m	529	37
Pol1	Card	35	12-23 m	197	37
Pol1	Card or History	64	12-23 m	529	37
Pol1	History	30	12-23 m	332	37
Pol3	C or H <12 months	33	12-23 m	529	37
Pol3	Card	32	12-23 m	197	37
Pol3	Card or History	34	12-23 m	529	37
Pol3	History	2	12-23 m	332	37

2009 Guinée Équatoriale Enquête Démographique et de Santé 2011

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	C or H <12 months	71	24-35 m	499	37
DTP1	C or H <12 months	54	24-35 m	499	37
DTP3	C or H <12 months	31	24-35 m	499	37
HepB1	C or H <12 months	54	24-35 m	499	37

HepB3	C or H <12 months	31	24-35 m	499	37
Hib1	C or H <12 months	54	24-35 m	499	37
Hib3	C or H <12 months	31	24-35 m	499	37
MCV1	C or H <12 months	41	24-35 m	499	37
Pol1	C or H <12 months	63	24-35 m	499	37
Pol3	C or H <12 months	25	24-35 m	499	37

2008 Guinée Équatoriale Enquête Démographique et de Santé 2011

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	C or H <12 months	66	36-47 m	460	37
DTP1	C or H <12 months	55	36-47 m	460	37
DTP3	C or H <12 months	32	36-47 m	460	37
HepB1	C or H <12 months	55	36-47 m	460	37
HepB3	C or H <12 months	32	36-47 m	460	37
Hib1	C or H <12 months	55	36-47 m	460	37
Hib3	C or H <12 months	32	36-47 m	460	37
MCV1	C or H <12 months	37	36-47 m	460	37
Pol1	C or H <12 months	59	36-47 m	460	37
Pol3	C or H <12 months	23	36-47 m	460	37

2007 Guinée Équatoriale Enquête Démographique et de Santé 2011

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	C or H <12 months	62	48-59 m	399	37
DTP1	C or H <12 months	48	48-59 m	399	37
DTP3	C or H <12 months	27	48-59 m	399	37
HepB1	C or H <12 months	48	48-59 m	399	37
HepB3	C or H <12 months	27	48-59 m	399	37
Hib1	C or H <12 months	48	48-59 m	399	37
Hib3	C or H <12 months	27	48-59 m	399	37
MCV1	C or H <12 months	31	48-59 m	399	37
Pol1	C or H <12 months	56	48-59 m	399	37
Pol3	C or H <12 months	21	48-59 m	399	37

Equatorial Guinea - survey details

1999 Equatorial Guinea MICS 2000

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
BCG	Card or History	73	12-23 m	457	42
DTP1	Card or History	65	12-23 m	457	42

DTP3	Card or History	33	12-23 m	457	42
MCV1	Card or History	51	12-23 m	457	42
Pol1	Card or History	76	12-23 m	457	42
Pol3	Card or History	39	12-23 m	457	42

Further information and estimates for previous years are available at:

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

http://www.who.int/immunization/monitoring_surveillance/routine/coverage/en/index4.html

Equatorial Guinea

WHO/UNICEF Estimates of Protection at Birth (PAB) against tetanus

In countries where tetanus is recommended for girls and women coverage is usually reported as "TT2+", i.e. the proportion of (pregnant) women who have received their second or superior TT dose in a given year. TT2 + coverage, however, can under-represent the actual proportion of births that are protected against tetanus as it does not include women who have previously received protective doses, women who received one dose without documentation of previous doses, and women who received doses in TT (or Td) supplemental immunization activities (SIA). In addition, girls who have received DTP in their childhood and are entering childbearing age, may be protected with TT booster doses.

WHO and UNICEF have developed a model that takes into account the above scenarios, and calculates the proportion of births in a given year that can be considered as having been protected against tetanus - "Protection at Birth".

In this model, annual cohorts of women are followed from infancy through their life. A proportion receives DTP in infancy (estimated based on the WHO-UNICEF estimates of DTP3 coverage). In addition some of these women also receive TT through routine services when they are pregnant and may also receive TT during SIAs. The model also adjusts reported data, taking into account coverage patterns in other years, and/or results available through surveys. The duration of protection is then calculated, based on WHO estimates of the duration of protection by doses ever received. The proportion of births that are protected against tetanus as a result of maternal immunization reflects the tetanus immunization received by the mother throughout her life rather than simply the TT immunizations received during the current pregnancy.

The model was used in the mid to late 2000. Currently, the coverage series developed by the model is used as the baseline, and efforts are made to obtain data from all sources that include the JRF and reported trend over the years, routine PAB reporting and its trend over the years, data from surveys (DHS, MICS, EPI), whether countries have been validated for the attainment of maternal and neonatal tetanus elimination and what the TT coverage figures are from the survey etc and all the information is used to arrive at an estimate of the protection-at-birth from TT vaccination.

Year	PAB coverage estimate (%)
2004	66
2005	59
2006	59
2007	62
2008	69
2009	75
2010	75
2011	75
2012	75
2013	75
2014	70
2015	70

¹ This model is described in: Griffiths U., Wolfson L., Quddus A., Younus M., Hafiz R.. Incremental cost-effectiveness of supplementary immunization activities to prevent neo-natal tetanus in Pakistan. Bulletin of the World Health Organization 2004; 82:643-651.