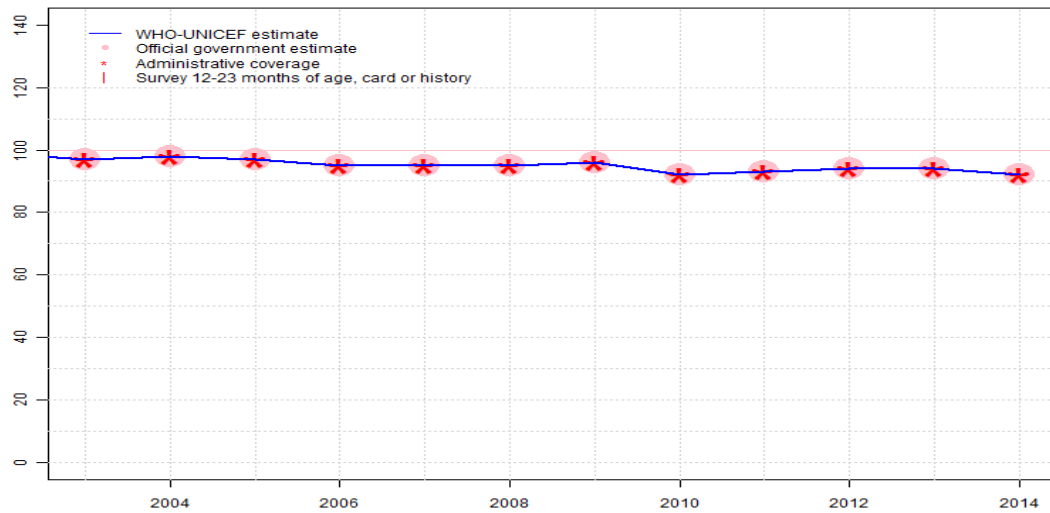


# Latvia - BCG

LVA - BCG



	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Estimate	97	98	97	95	95	95	96	92	93	94	94	92
Estimate GoC	●●	●●	●●	●●	●●	●●	●●	●	●	●	●●	●●
Official	97	98	97	95	95	95	96	92	93	94	94	92
Administrative	97	98	97	95	95	95	96	92	93	94	94	92
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: 2012 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.

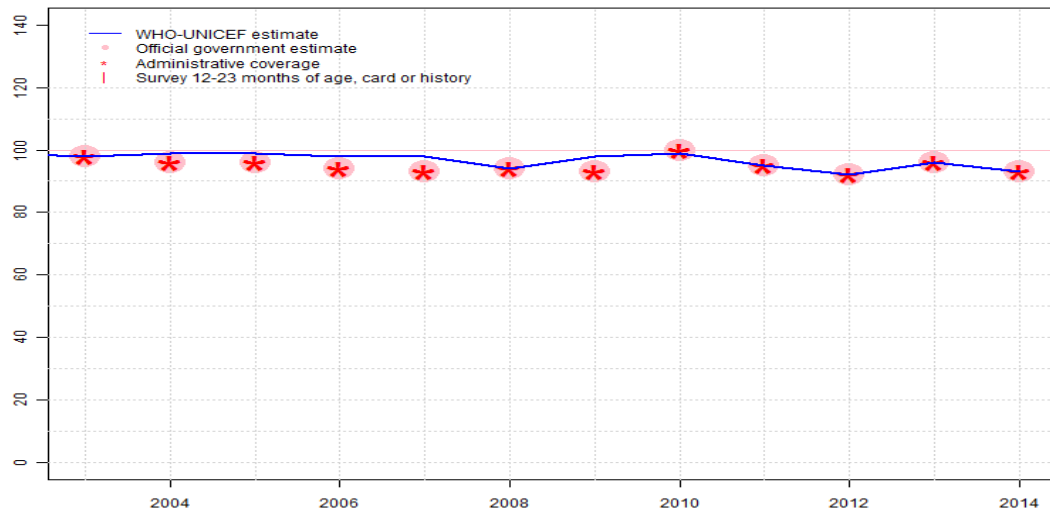
In all cases these estimates should be used with caution and should be assessed in light of the objective for which they are being used.

## Description:

- 2003: Estimate based on coverage reported by national government. Estimate of 97 percent changed from previous revision value of 99 percent. GoC=R+ D+
- 2004: Estimate based on coverage reported by national government. Estimate of 98 percent changed from previous revision value of 99 percent. GoC=R+ D+
- 2005: Estimate based on coverage reported by national government. Estimate of 97 percent changed from previous revision value of 99 percent. GoC=R+ D+
- 2006: Estimate based on coverage reported by national government. Estimate of 95 percent changed from previous revision value of 99 percent. GoC=R+ D+
- 2007: Estimate based on coverage reported by national government. Estimate of 95 percent changed from previous revision value of 99 percent. GoC=R+ D+
- 2008: Estimate based on coverage reported by national government. GoC=R+ D+
- 2009: Estimate based on coverage reported by national government. GoC=R+ D+
- 2010: Estimate based on coverage reported by national government. Estimate challenged by: D-
- 2011: Estimate based on coverage reported by national government. Estimate of 93 percent changed from previous revision value of 94 percent. Estimate challenged by: D-
- 2012: Estimate based on coverage reported by national government. Estimate of 94 percent changed from previous revision value of 97 percent. Estimate challenged by: D-
- 2013: Estimate based on coverage reported by national government. Estimate of 94 percent changed from previous revision value of 96 percent. GoC=R+ D+
- 2014: Estimate based on coverage reported by national government. No nationally representative household survey within the last 5 years. WHO and UNICEF recommend a high-quality survey to confirm reported levels of coverage. GoC=R+ D+

# Latvia - DTP1

LVA - DTP1



	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Estimate	98	96	96	94	93	94	93	100	95	92	96	93
Estimate GoC	●●	●	●	●	●	●	●	●	●	●	●●	●●
Official	98	96	96	94	93	94	93	100	95	92	96	93
Administrative	98	96	96	94	93	94	93	100	95	92	96	93
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: 2012 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.

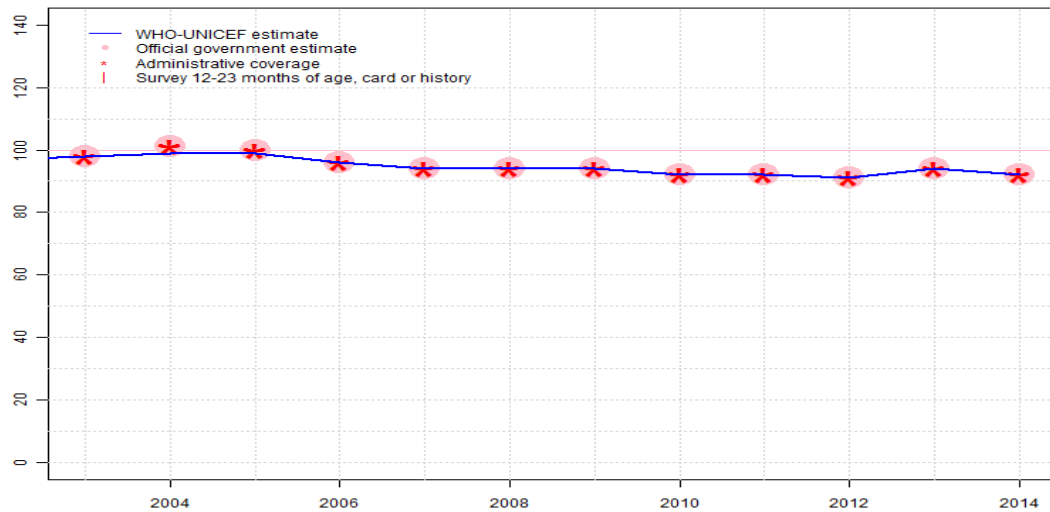
In all cases these estimates should be used with caution and should be assessed in light of the objective for which they are being used.

## Description:

- 2003: Estimate based on coverage reported by national government. Estimate of 98 percent changed from previous revision value of 99 percent. GoC=R+ D+
- 2004: DTP1 coverage estimated based on DTP3 coverage of 99. Estimate challenged by: R-
- 2005: DTP1 coverage estimated based on DTP3 coverage of 100. Estimate challenged by: R-
- 2006: DTP1 coverage estimated based on DTP3 coverage of 96. Estimate of 98 percent changed from previous revision value of 99 percent. Estimate challenged by: R-
- 2007: DTP1 coverage estimated based on DTP3 coverage of 94. Estimate challenged by: R-
- 2008: Estimate based on coverage reported by national government. Estimate of 94 percent changed from previous revision value of 99 percent. Estimate challenged by: D-
- 2009: DTP1 coverage estimated based on DTP3 coverage of 94. Estimate challenged by: R-
- 2010: Estimate based on coverage reported by national government. Estimate of 99 percent changed from previous revision value of 96 percent. Estimate challenged by: D-
- 2011: Estimate based on coverage reported by national government. Estimate challenged by: D-
- 2012: Estimate based on coverage reported by national government. Estimate of 92 percent changed from previous revision value of 95 percent. Estimate challenged by: D-
- 2013: Estimate based on coverage reported by national government. GoC=R+ D+
- 2014: Estimate based on coverage reported by national government. No nationally representative household survey within the last 5 years. WHO and UNICEF recommend a high-quality survey to confirm reported levels of coverage. GoC=R+ D+

# Latvia - DTP3

LVA - DTP3



	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Estimate	98	99	99	96	94	94	94	92	92	91	94	92
Estimate GoC	●●	●●	●●	●●	●●	●	●●	●●	●	●	●●	●●
Official	98	101	100	96	94	94	94	92	92	91	94	92
Administrative	98	101	100	96	94	94	94	92	92	91	94	92
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: 2012 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.

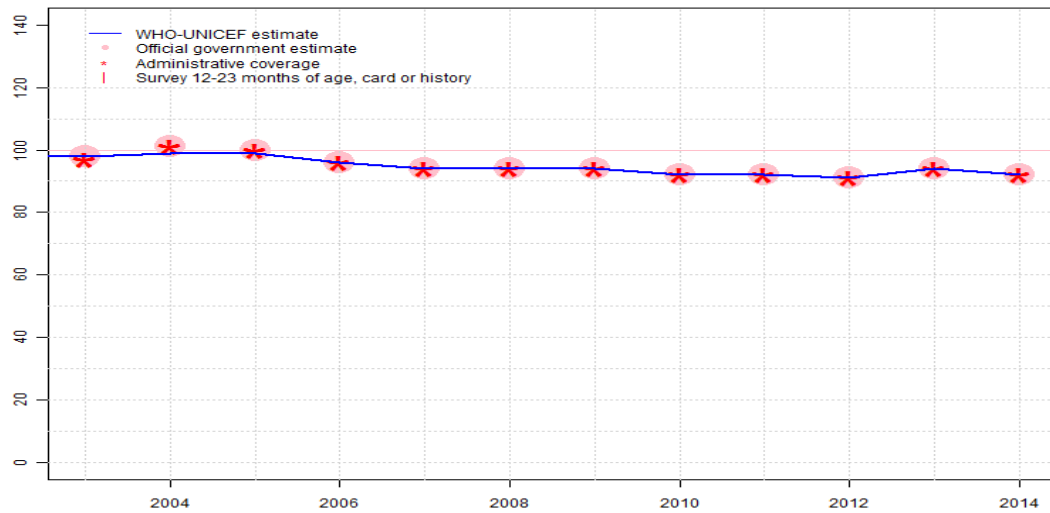
In all cases these estimates should be used with caution and should be assessed in light of the objective for which they are being used.

## Description:

- 2003: Estimate based on coverage reported by national government. GoC=R+ D+
- 2004: Estimate based on interpolation between data reported by national government. Reported data excluded. 101 percent greater than 100 percent. GoC=D+
- 2005: Estimate based on coverage reported by national government. GoC=R+ D+
- 2006: Estimate based on coverage reported by national government. Estimate of 96 percent changed from previous revision value of 98 percent. GoC=R+ D+
- 2007: Estimate based on coverage reported by national government. Estimate of 94 percent changed from previous revision value of 98 percent. GoC=R+ D+
- 2008: Estimate based on coverage reported by national government. Estimate of 94 percent changed from previous revision value of 97 percent. Estimate challenged by: D-
- 2009: Estimate based on coverage reported by national government. Estimate of 94 percent changed from previous revision value of 96 percent. GoC=R+ D+
- 2010: Estimate based on coverage reported by national government. Estimate of 92 percent changed from previous revision value of 91 percent. GoC=R+ D+
- 2011: Estimate based on coverage reported by national government. Estimate of 92 percent changed from previous revision value of 93 percent. Estimate challenged by: D-
- 2012: Estimate based on coverage reported by national government. Estimate of 91 percent changed from previous revision value of 92 percent. Estimate challenged by: D-
- 2013: Estimate based on coverage reported by national government. Estimate of 94 percent changed from previous revision value of 95 percent. GoC=R+ D+
- 2014: Estimate based on coverage reported by national government. No nationally representative household survey within the last 5 years. WHO and UNICEF recommend a high-quality survey to confirm reported levels of coverage. GoC=R+ D+

# Latvia - Pol3

LVA - Pol3



	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Estimate	98	99	99	96	94	94	94	92	92	91	94	92
Estimate GoC	●●	●●	●●	●●	●●	●	●●	●●	●	●	●●	●●
Official	98	101	100	96	94	94	94	92	92	91	94	92
Administrative	97	101	100	96	94	94	94	92	92	91	94	92
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: 2012 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.

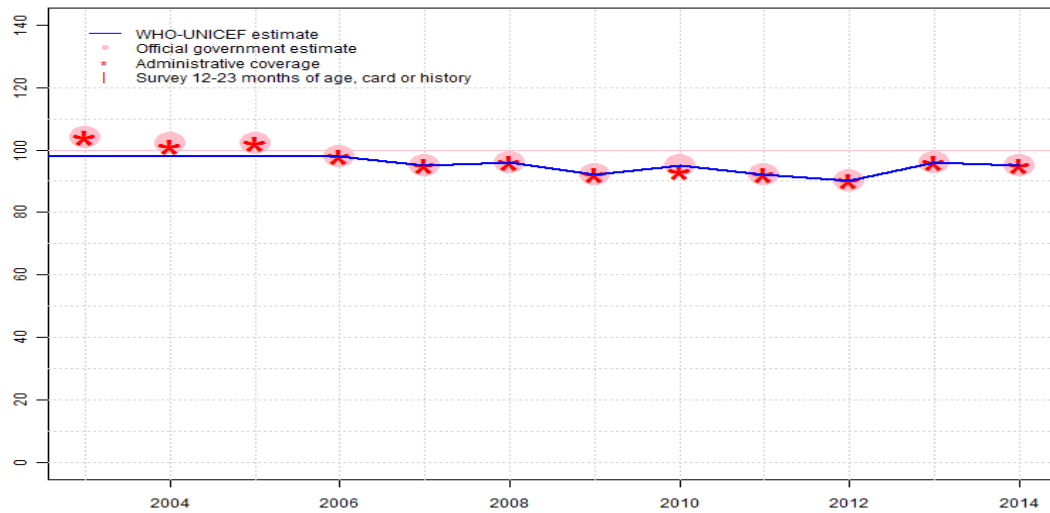
In all cases these estimates should be used with caution and should be assessed in light of the objective for which they are being used.

## Description:

- 2003: Estimate based on coverage reported by national government. GoC=R+ D+
- 2004: Estimate based on interpolation between data reported by national government. Reported data excluded. 101 percent greater than 100 percent. GoC=D+
- 2005: Estimate based on coverage reported by national government. GoC=R+ D+
- 2006: Estimate based on coverage reported by national government. Estimate of 96 percent changed from previous revision value of 98 percent. GoC=R+ D+
- 2007: Estimate based on coverage reported by national government. Estimate of 94 percent changed from previous revision value of 98 percent. GoC=R+ D+
- 2008: Estimate based on coverage reported by national government. Estimate of 94 percent changed from previous revision value of 97 percent. Estimate challenged by: D-
- 2009: Estimate based on coverage reported by national government. Estimate of 94 percent changed from previous revision value of 96 percent. GoC=R+ D+
- 2010: Estimate based on coverage reported by national government. Estimate of 92 percent changed from previous revision value of 91 percent. GoC=R+ D+
- 2011: Estimate based on coverage reported by national government. Estimate of 92 percent changed from previous revision value of 93 percent. Estimate challenged by: D-
- 2012: Estimate based on coverage reported by national government. Estimate of 91 percent changed from previous revision value of 92 percent. Estimate challenged by: D-
- 2013: Estimate based on coverage reported by national government. Estimate of 94 percent changed from previous revision value of 95 percent. GoC=R+ D+
- 2014: Estimate based on coverage reported by national government. No nationally representative household survey within the last 5 years. WHO and UNICEF recommend a high-quality survey to confirm reported levels of coverage. GoC=R+ D+

# Latvia - MCV1

LVA - MCV1



	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Estimate	98	98	98	98	95	96	92	95	92	90	96	95
Estimate GoC	••	••	••	••	••	••	••	•	••	•	•	••
Official	104	102	102	98	95	96	92	95	92	90	96	95
Administrative	104	101	102	98	95	96	92	93	92	90	96	95
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: 2012 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.

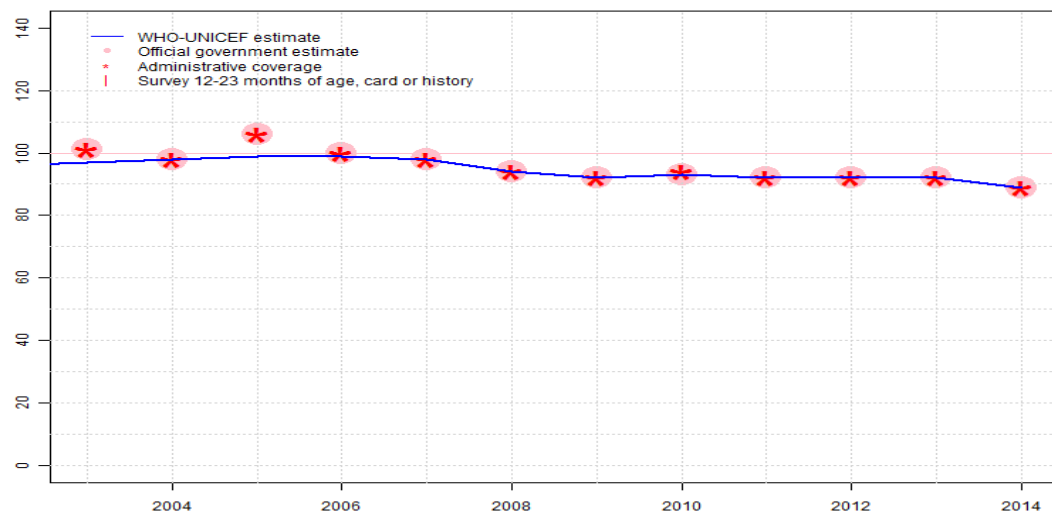
## Description:

- 2003: Estimate based on interpolation between data reported by national government. Reported data excluded. 104 percent greater than 100 percent. Estimate of 98 percent changed from previous revision value of 99 percent. GoC=D+
- 2004: Estimate based on interpolation between data reported by national government. Reported data excluded. 102 percent greater than 100 percent. Estimate of 98 percent changed from previous revision value of 99 percent. GoC=D+
- 2005: Estimate based on interpolation between data reported by national government. Reported data excluded. 102 percent greater than 100 percent. Estimate of 98 percent changed from previous revision value of 95 percent. GoC=D+
- 2006: Estimate based on coverage reported by national government. Estimate of 98 percent changed from previous revision value of 95 percent. GoC=R+D+
- 2007: Estimate based on coverage reported by national government. Estimate of 95 percent changed from previous revision value of 97 percent. GoC=R+D+
- 2008: Estimate based on coverage reported by national government. Estimate of 96 percent changed from previous revision value of 98 percent. GoC=R+D+
- 2009: Estimate based on coverage reported by national government. Estimate of 92 percent changed from previous revision value of 94 percent. GoC=R+D+
- 2010: Estimate based on coverage reported by national government. Estimate of 95 percent changed from previous revision value of 92 percent. Estimate challenged by: D-
- 2011: Estimate based on coverage reported by national government. Estimate of 92 percent changed from previous revision value of 88 percent. GoC=R+D+
- 2012: Estimate based on coverage reported by national government. Estimate challenged by: D-
- 2013: Estimate based on coverage reported by national government. Estimate challenged by: D-
- 2014: Estimate based on coverage reported by national government. No nationally representative household survey within the last 5 years. WHO and UNICEF recommend a high-quality survey to confirm reported levels of coverage. GoC=R+D+



# Latvia - MCV2

LVA - MCV2



	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Estimate	97	98	99	99	98	94	92	93	92	92	92	89
Estimate GoC	●●	●●	●●	●	●	●	●	●●	●	●	●●	●●
Official	101	98	106	100	98	94	92	93	92	92	92	89
Administrative	101	98	106	100	98	94	92	94	92	92	92	89
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: 2012 revision from the UN Population Division (D+), and at least one supporting survey within 2 years [S+]. While well supported, the estimate still carries a risk of being wrong.
- Estimate is supported by at least one data source; [R+], [S+], or [D+]; and no data source, [R-], [D-], or [S-], challenges the estimate.
- There are no directly supporting data; or data from at least one source; [R-], [D-], [S-]; challenge the estimate.

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

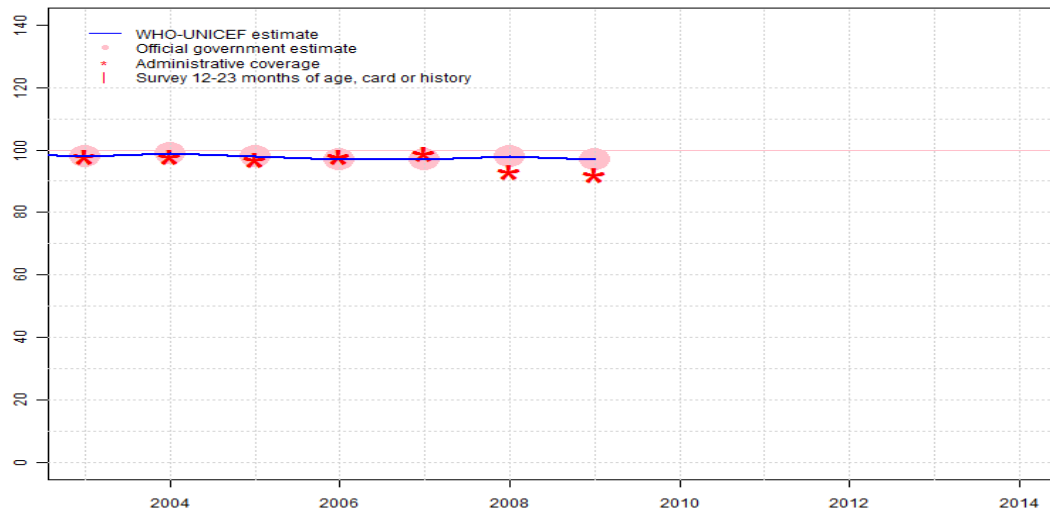
## Description:

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

- 2003: Estimate based on interpolation between reported values. Reported data excluded. 101 percent greater than 100 percent. GoC=D+
- 2004: Estimate based on coverage reported by national government. Estimate of 98 percent changed from previous revision value of 92 percent. GoC=R+D+
- 2005: Estimate based on interpolation between reported values. Reported data excluded. 106 percent greater than 100 percent. Estimate of 99 percent changed from previous revision value of 98 percent. GoC=D+
- 2006: Estimate based on coverage reported by national government. Estimate of 99 percent changed from previous revision value of 98 percent. Estimate challenged by: D-
- 2007: Estimate based on coverage reported by national government. Estimate challenged by: D-
- 2008: Estimate based on coverage reported by national government. Estimate of 94 percent changed from previous revision value of 98 percent. Estimate challenged by: D-
- 2009: Estimate based on coverage reported by national government. Estimate of 92 percent changed from previous revision value of 96 percent. Estimate challenged by: D-
- 2010: Estimate based on coverage reported by national government. Estimate of 93 percent changed from previous revision value of 94 percent. GoC=R+D+
- 2011: Estimate based on coverage reported by national government. Estimate of 92 percent changed from previous revision value of 91 percent. Estimate challenged by: D-
- 2012: Estimate based on coverage reported by national government. Estimate of 92 percent changed from previous revision value of 95 percent. Estimate challenged by: D-
- 2013: Estimate based on coverage reported by national government. Estimate of 92 percent changed from previous revision value of 95 percent. GoC=R+D+
- 2014: Estimate based on coverage reported by national government. No nationally representative household survey within the last 5 years. WHO and UNICEF recommend a high-quality survey to confirm reported levels of coverage. GoC=R+D+

# Latvia - HepBB

LVA - HepBB



## Description:

- 2003: Estimate based on coverage reported by national government. GoC=R+ D+
- 2004: Estimate based on coverage reported by national government. GoC=R+ D+
- 2005: Estimate based on coverage reported by national government. GoC=R+ D+
- 2006: Estimate based on coverage reported by national government. GoC=R+ D+
- 2007: Estimate based on coverage reported by national government. GoC=R+ D+
- 2008: Estimate based on coverage reported by national government. GoC=R+ D+
- 2009: Estimate based on coverage reported by national government. Pentavalent DTP-HepB-Hib pentavalent combination vaccine introduced in 2011. Universal birth dose recommendation discontinued. Hepatitis B birth dose provided only to high risk infants. GoC=R+ D+

	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Estimate	98	99	98	97	97	98	97	NA	NA	NA	NA	NA
Estimate GoC	●●	●●	●●	●●	●●	●●	●●	NA	NA	NA	NA	NA
Official	98	99	98	97	97	98	97	NA	NA	NA	NA	NA
Administrative	98	98	97	98	99	93	92	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.

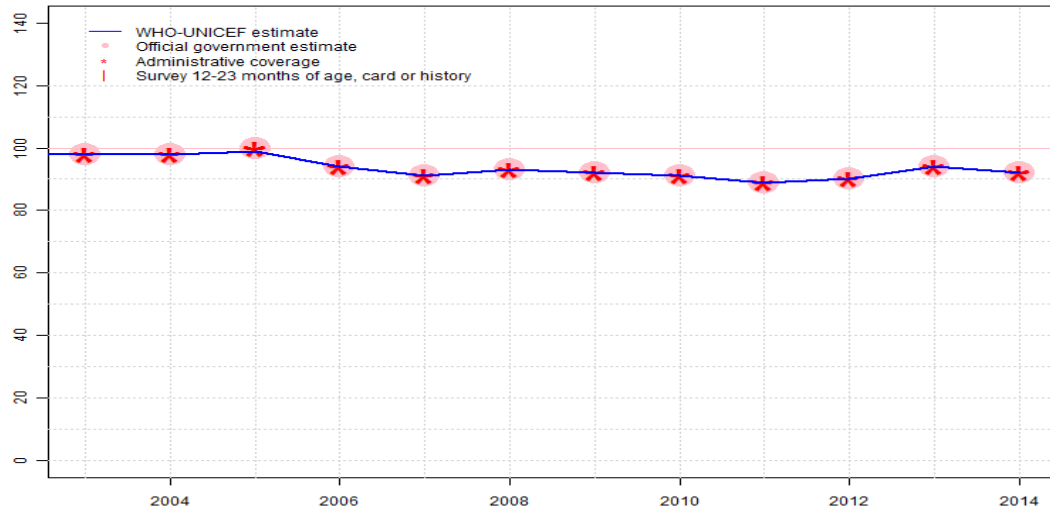
- Estimate is supported by reported data [R+], coverage recalculated with an independent denominator from the World Population Prospects: 2012 revision from the UN Population Division (D+), and at least one supporting survey within 2 years [S+]. While well supported, the estimate still carries a risk 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.



# Latvia - HepB3

LVA - HepB3



	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Estimate	98	98	99	94	91	93	92	91	89	90	94	92
Estimate GoC	●●	●●	●●	●●	●●	●●	●●	●●	●	●	●	●●
Official	98	98	100	94	91	93	92	91	89	90	94	92
Administrative	98	98	100	94	91	93	92	91	89	90	94	92
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: 2012 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.

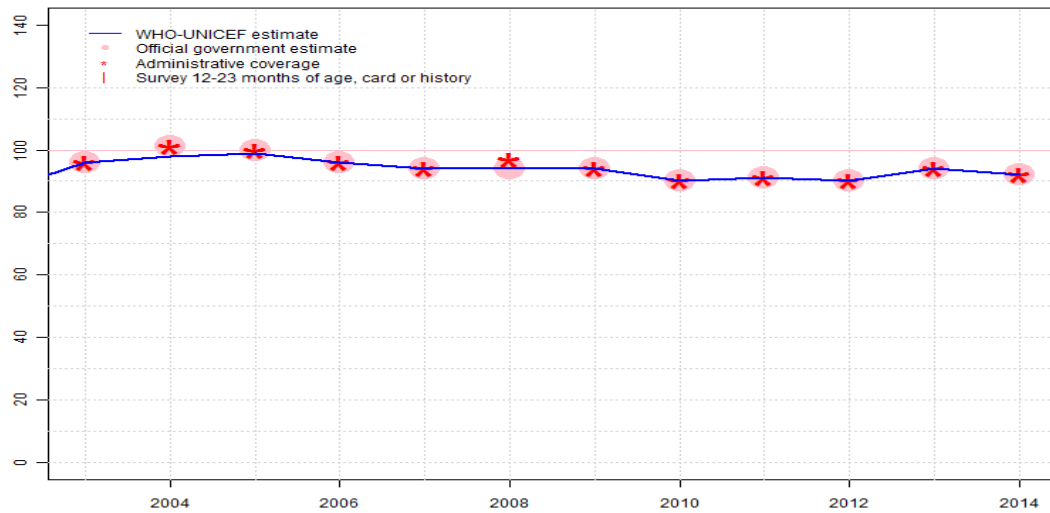
In all cases these estimates should be used with caution and should be assessed in light of the objective for which they are being used.

## Description:

- 2003: Estimate based on coverage reported by national government. GoC=R+ D+
- 2004: Estimate based on coverage reported by national government. GoC=R+ D+
- 2005: Estimate based on coverage reported by national government. Estimate of 99 percent changed from previous revision value of 98 percent. GoC=R+ D+
- 2006: Estimate based on coverage reported by national government. Estimate of 94 percent changed from previous revision value of 97 percent. GoC=R+ D+
- 2007: Estimate based on coverage reported by national government. Estimate of 91 percent changed from previous revision value of 97 percent. GoC=R+ D+
- 2008: Estimate based on coverage reported by national government. Estimate of 93 percent changed from previous revision value of 95 percent. GoC=R+ D+
- 2009: Estimate based on coverage reported by national government. Estimate of 92 percent changed from previous revision value of 93 percent. GoC=R+ D+
- 2010: Estimate based on coverage reported by national government. GoC=R+ D+
- 2011: Estimate based on coverage reported by national government. Estimate of 89 percent changed from previous revision value of 90 percent. Estimate challenged by: D-
- 2012: Estimate based on coverage reported by national government. Estimate of 90 percent changed from previous revision value of 91 percent. Estimate challenged by: D-
- 2013: Estimate based on coverage reported by national government. Estimate of 94 percent changed from previous revision value of 95 percent. Estimate challenged by: D-
- 2014: Estimate based on coverage reported by national government. No nationally representative household survey within the last 5 years. WHO and UNICEF recommend a high-quality survey to confirm reported levels of coverage. GoC=R+ D+

# Latvia - Hib3

LVA - Hib3



	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Estimate	96	98	99	96	94	94	94	90	91	90	94	92
Estimate GoC	●●	●●	●●	●●	●●	●	●●	●●	●	●	●	●●
Official	96	101	100	96	94	94	94	90	91	90	94	92
Administrative	96	101	100	96	94	97	94	90	91	90	94	92
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.

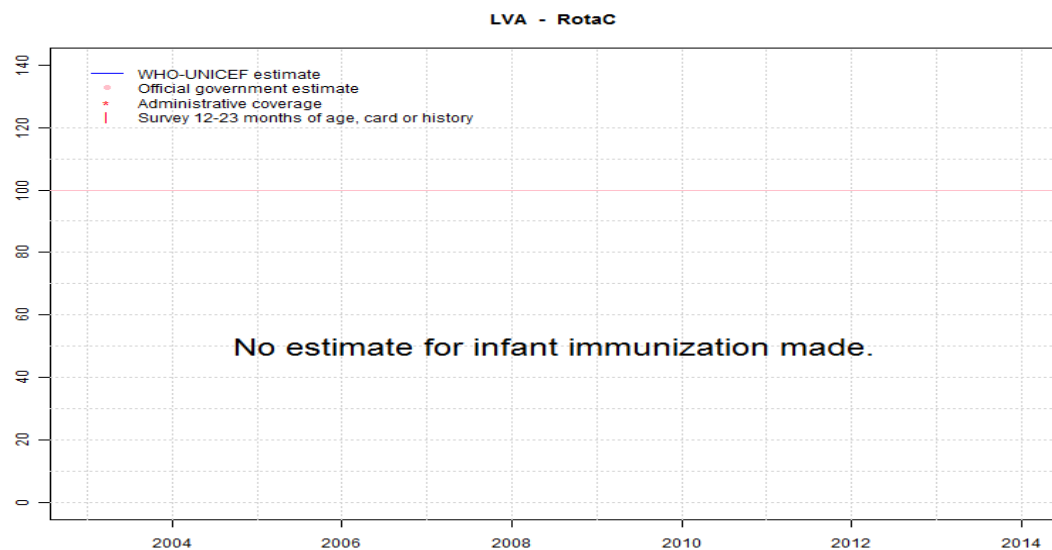
- Estimate is supported by reported data [R+], coverage recalculated with an independent denominator from the World Population Prospects: 2012 revision from the UN Population Division (D+), and at least one supporting survey within 2 years [S+]. While well supported, the estimate still carries a risk 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:

- 2003: Estimate based on coverage reported by national government. Estimate of 96 percent changed from previous revision value of 92 percent. GoC=R+ D+
- 2004: Estimate based on interpolation between data reported by national government. Reported data excluded. 101 percent greater than 100 percent. Estimate of 98 percent changed from previous revision value of 95 percent. GoC=D+
- 2005: Estimate based on coverage reported by national government. Estimate of 99 percent changed from previous revision value of 94 percent. GoC=R+ D+
- 2006: Estimate based on coverage reported by national government. Estimate of 96 percent changed from previous revision value of 99 percent. GoC=R+ D+
- 2007: Estimate based on coverage reported by national government. Estimate of 94 percent changed from previous revision value of 97 percent. GoC=R+ D+
- 2008: Estimate based on coverage reported by national government. Estimate of 94 percent changed from previous revision value of 97 percent. Estimate challenged by: D-
- 2009: Estimate based on coverage reported by national government. Estimate of 94 percent changed from previous revision value of 95 percent. GoC=R+ D+
- 2010: Estimate based on coverage reported by national government. GoC=R+ D+
- 2011: Estimate based on coverage reported by national government. Estimate of 91 percent changed from previous revision value of 92 percent. Estimate challenged by: D-
- 2012: Estimate based on coverage reported by national government. Estimate of 90 percent changed from previous revision value of 91 percent. Estimate challenged by: D-
- 2013: Estimate based on coverage reported by national government. Estimate of 94 percent changed from previous revision value of 95 percent. Estimate challenged by: D-
- 2014: Estimate based on coverage reported by national government. No nationally representative household survey within the last 5 years. WHO and UNICEF recommend a high-quality survey to confirm reported levels of coverage. GoC=R+ D+

# Latvia - RotaC



	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
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

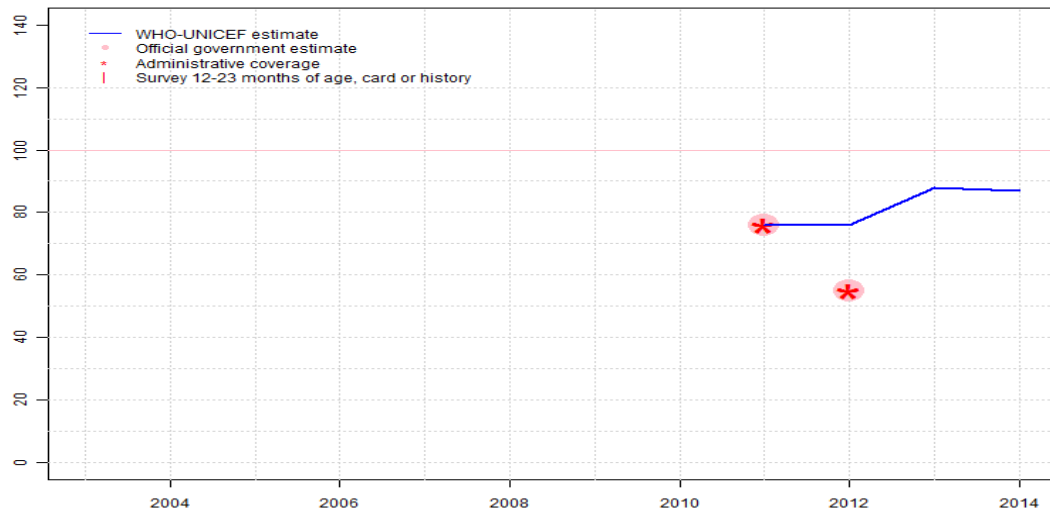
The WHO and UNICEF estimates of national immunization coverage (wuenic) are based on data and information that are of varying, and, in some instances, unknown quality. Beginning with the 2011 revision we describe the grade of confidence (GoC) we have in these estimates. As there is no underlying probability 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: 2012 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.

# Latvia - PcV3

LVA - PcV3



	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Estimate	NA	NA	NA	NA	NA	NA	NA	NA	76	76	88	87
Estimate GoC	NA	NA	NA	NA	NA	NA	NA	NA	•	•	•	•
Official	NA	NA	NA	NA	NA	NA	NA	NA	76	55	NA	NA
Administrative	NA	NA	NA	NA	NA	NA	NA	NA	76	55	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: 2012 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:

- 2011: Estimate based on coverage reported by national government. Pneumococcal conjugate vaccine introduced in 2010, reporting started in 2011. Estimate of 76 percent changed from previous revision value of 82 percent. Estimate challenged by: D-
- 2012: Estimate based on extrapolation from data reported by national government. Reported data excluded. Decline in reported coverage from 76 level to 55 percent. Estimate of 76 percent changed from previous revision value of 78 percent. Estimate challenged by: D-
- 2013: PcV is recommended at 2,4 months and 12-15 months of age. The WHO and UNICEF estimate is based on the second dose of PcV as reliable data on PcV3 coverage for the year 2013 are not available due to changes in the schedule. GoC=No accepted empirical data
- 2014: Estimate is based on the second dose of PcV as reliable data on PcV3 coverage for the year 2014 are not available due to changes in the schedule. No nationally representative household survey within the last 5 years. WHO and UNICEF recommend a high-quality survey to confirm reported levels of coverage. GoC=No accepted empirical data

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