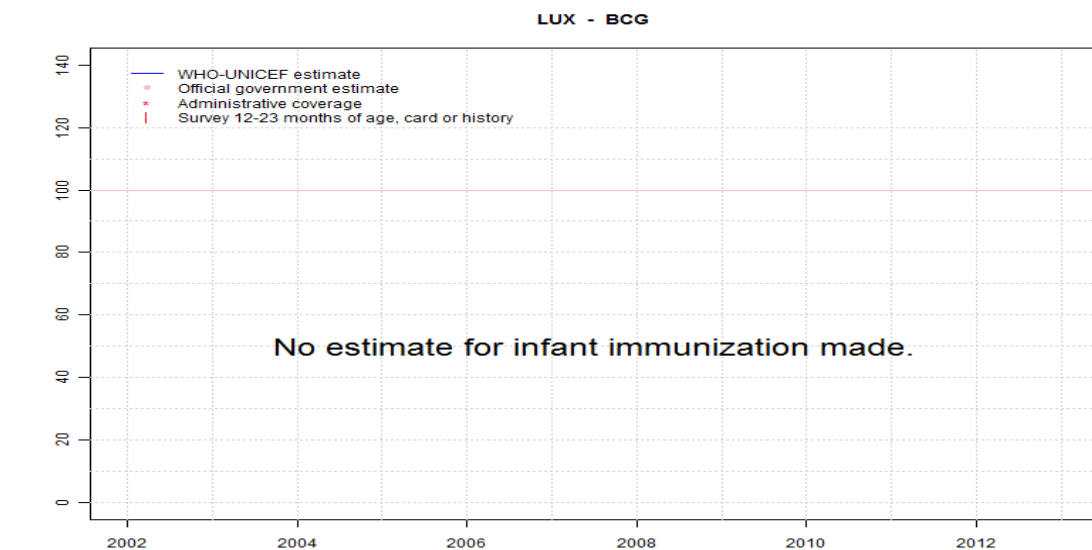


Luxembourg - BCG



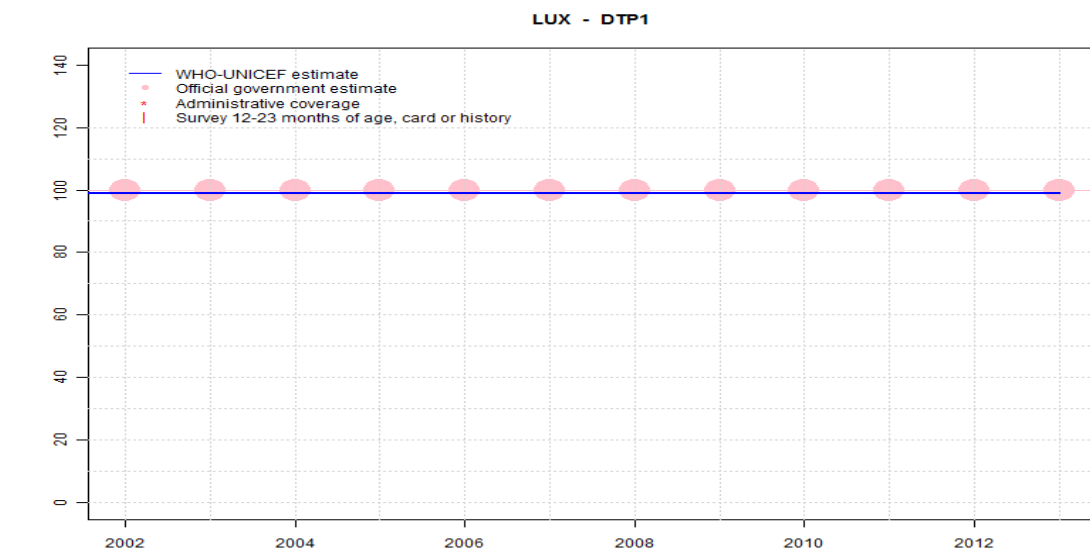
	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Estimate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Estimate GoC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Official	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Administrative	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Survey	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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.

Luxembourg - DTP1



	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Estimate	99	99	99	99	99	99	99	99	99	99	99	99
Estimate GoC	•	•	•	•	•	•	•	•	•	•	•	•
Official	100	100	100	100	100	100	100	100	100	100	100	100
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.

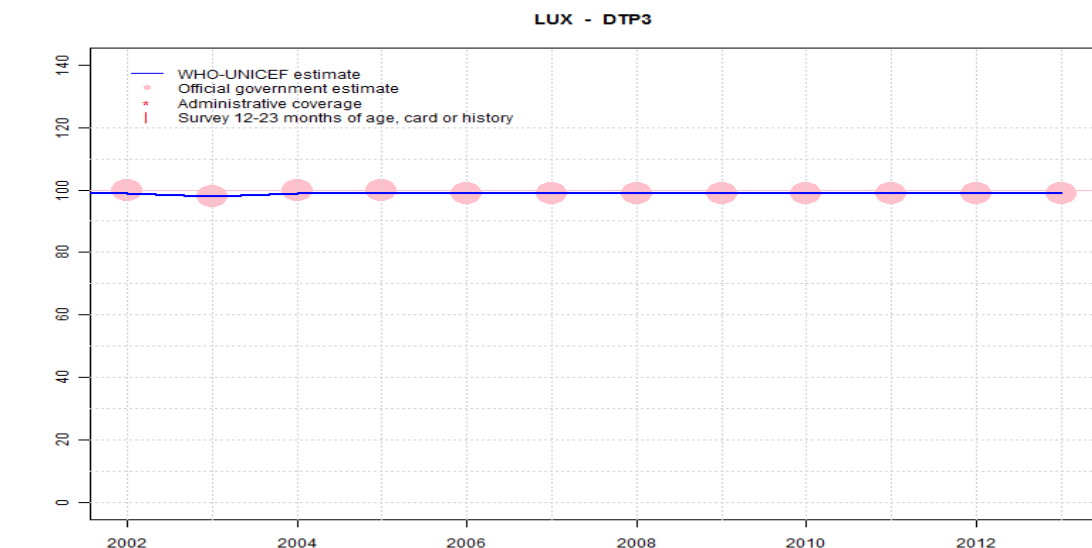
- Estimate is supported by reported data [R+], coverage recalculated with an independent denominator from the World Population Prospects: 2012 revision from the UN Population Division (D+), and at least one supporting survey within 2 years [S+]. While well supported, the estimate still carries a risk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

Description:

- 2002: DTP1 coverage estimated based on DTP3 coverage of 100. High levels of coverage are supported by a survey of 511 children 25-30 months of age, which shows coverage of 100 percent. Estimate of 99 percent changed from previous revision value of 98 percent. Estimate challenged by: R-
- 2003: Reported data calibrated to 1997 levels. Estimate of 99 percent changed from previous revision value of 98 percent. GoC=No accepted empirical data
- 2004: DTP1 coverage estimated based on DTP3 coverage of 100. Estimate challenged by: R-
- 2005: DTP1 coverage estimated based on DTP3 coverage of 100. Estimate challenged by: R-
- 2006: Reported data calibrated to 1997 levels. GoC=No accepted empirical data
- 2007: Reported data calibrated to 1997 levels. GoC=No accepted empirical data
- 2008: Reported data calibrated to 1997 levels. Nationally reported data are based on the 2007-2008 vaccination coverage survey. High levels of coverage are supported by a survey of 562 children 25-30 months of age, which shows coverage of 99.5 percent. GoC=No accepted empirical data
- 2009: Reported data calibrated to 1997 levels. Nationally reported data are based on the 2007-2008 vaccination coverage survey. GoC=No accepted empirical data
- 2010: Reported data calibrated to 1997 levels. High levels of coverage supported by a survey of 614 children aged 25-30 m which shows coverage of 100 percent. GoC=No accepted empirical data
- 2011: Reported data calibrated to 1997 levels. GoC=No accepted empirical data
- 2012: Reported data calibrated to 1997 levels. GoC=No accepted empirical data
- 2013: Reported data calibrated to 1997 levels. GoC=No accepted empirical data

Luxembourg - DTP3



	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Estimate	99	98	99	99	99	99	99	99	99	99	99	99
Estimate GoC	••	••	••	••	••	••	••	••	••	••	••	••
Official	100	98	100	100	99	99	99	99	99	99	99	99
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.

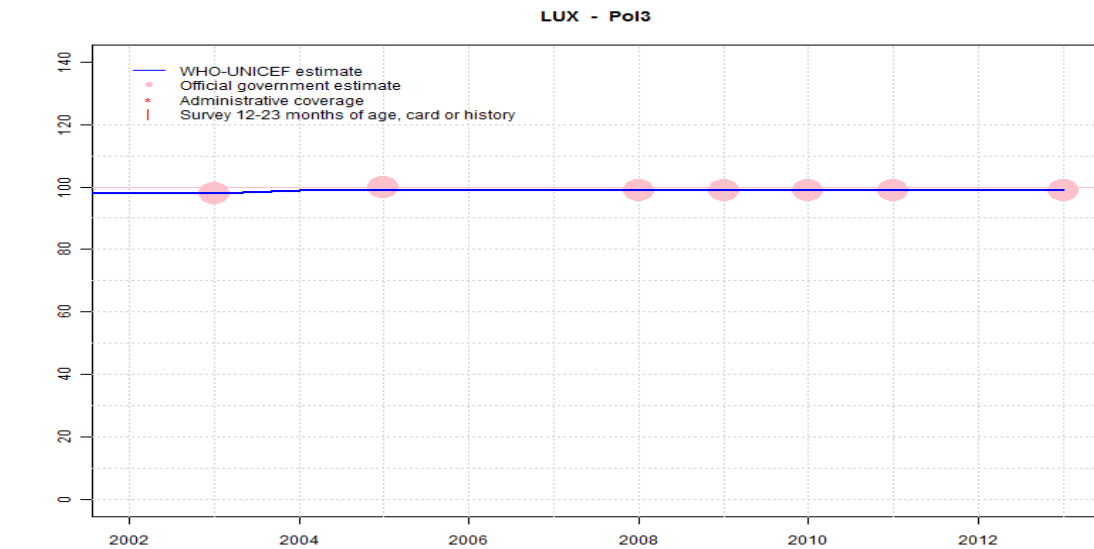
- Estimate is supported by reported data [R+], coverage recalculated with an independent denominator from the World Population Prospects: 2012 revision from the UN Population Division (D+), and at least one supporting survey within 2 years [S+]. While well supported, the estimate still carries a risk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

Description:

- 2002: Estimate based on coverage reported by national government. High levels of coverage are supported by a survey of 511 children 25-30 months of age, which shows coverage of 99.6 percent. Estimate of 99 percent changed from previous revision value of 98 percent. GoC=R+
- 2003: Estimate based on coverage reported by national government. GoC=R+
- 2004: Estimate based on coverage reported by national government. GoC=R+
- 2005: Estimate based on coverage reported by national government. GoC=R+
- 2006: Estimate based on coverage reported by national government. GoC=R+
- 2007: Estimate based on coverage reported by national government. GoC=R+
- 2008: Estimate based on coverage reported by national government. Nationally reported data are based on the 2007-2008 vaccination coverage survey. High levels of coverage are supported by a survey of 562 children 25-30 months of age, which shows coverage of 99.1 percent. GoC=R+
- 2009: Estimate based on coverage reported by national government. Nationally reported data are based on the 2007-2008 vaccination coverage survey. GoC=R+
- 2010: Estimate based on coverage reported by national government. High levels of coverage supported by a survey of 614 children aged 25-30 m which shows coverage of 99 percent. GoC=R+
- 2011: Estimate based on coverage reported by national government. GoC=R+
- 2012: Estimate based on coverage reported by national government. GoC=R+
- 2013: Estimate based on coverage reported by national government. GoC=R+

Luxembourg - Pol3



	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Estimate	98	98	99	99	99	99	99	99	99	99	99	99
Estimate GoC	•	••	•	••	•	•	••	••	••	••	•	••
Official	NA	98	NA	100	NA	NA	99	99	99	99	NA	99
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.

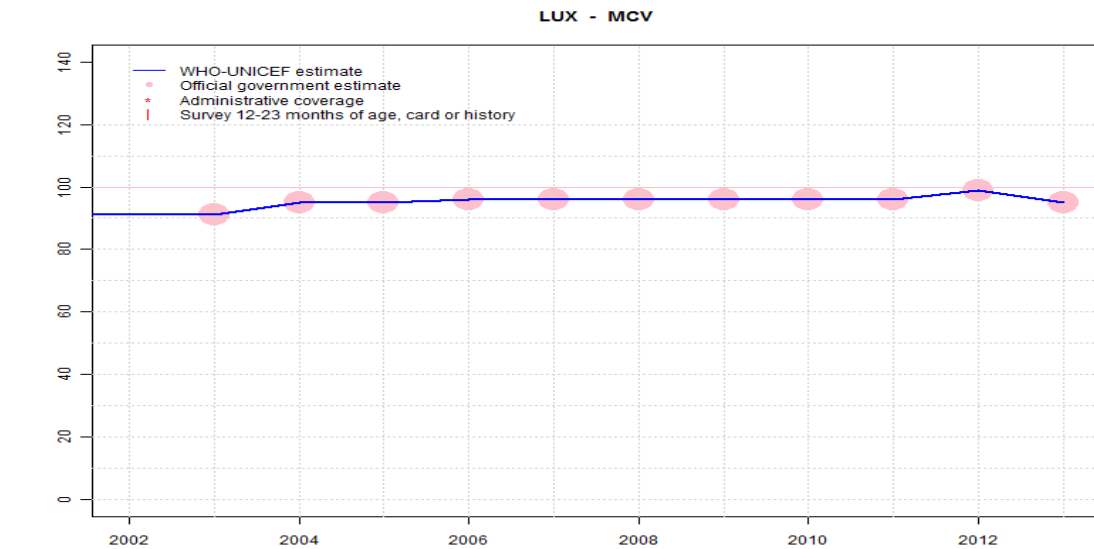
- Estimate is supported by reported data [R+], coverage recalculated with an independent denominator from the World Population Prospects: 2012 revision from the UN Population Division (D+), and at least one supporting survey within 2 years [S+]. While well supported, the estimate still carries a risk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

Description:

- 2002: Estimate based on interpolation between data reported by national government. High levels of coverage are supported by a survey of 511 children 25-30 months of age, which shows coverage of 99.6 percent. GoC=No accepted empirical data
- 2003: Estimate based on coverage reported by national government. GoC=R+
- 2004: Estimate based on interpolation between data reported by national government. GoC=No accepted empirical data
- 2005: Estimate based on coverage reported by national government. GoC=R+
- 2006: Estimate based on interpolation between data reported by national government. GoC=No accepted empirical data
- 2007: Estimate based on interpolation between data reported by national government. GoC=No accepted empirical data
- 2008: Estimate based on coverage reported by national government. Nationally reported data are based on the 2007-2008 vaccination coverage survey. High levels of coverage are supported by a survey of 562 children 25-30 months of age, which shows coverage of 96.4 percent. GoC=R+
- 2009: Estimate based on coverage reported by national government. Nationally reported data are based on the 2007-2008 vaccination coverage survey. GoC=R+
- 2010: Estimate based on coverage reported by national government. High levels of coverage supported by a survey of 614 children aged 25-30 m which shows coverage of 100 percent. GoC=R+
- 2011: Estimate based on coverage reported by national government. GoC=R+
- 2012: Estimate based on interpolation between data reported by national government. GoC=No accepted empirical data
- 2013: Estimate based on coverage reported by national government. GoC=R+

Luxembourg - MCV



	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Estimate	91	91	95	95	96	96	96	96	96	96	99	95
Estimate GoC	•	••	••	••	••	••	••	••	••	••	••	••
Official	NA	91	95	95	96	96	96	96	96	96	99	95
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.

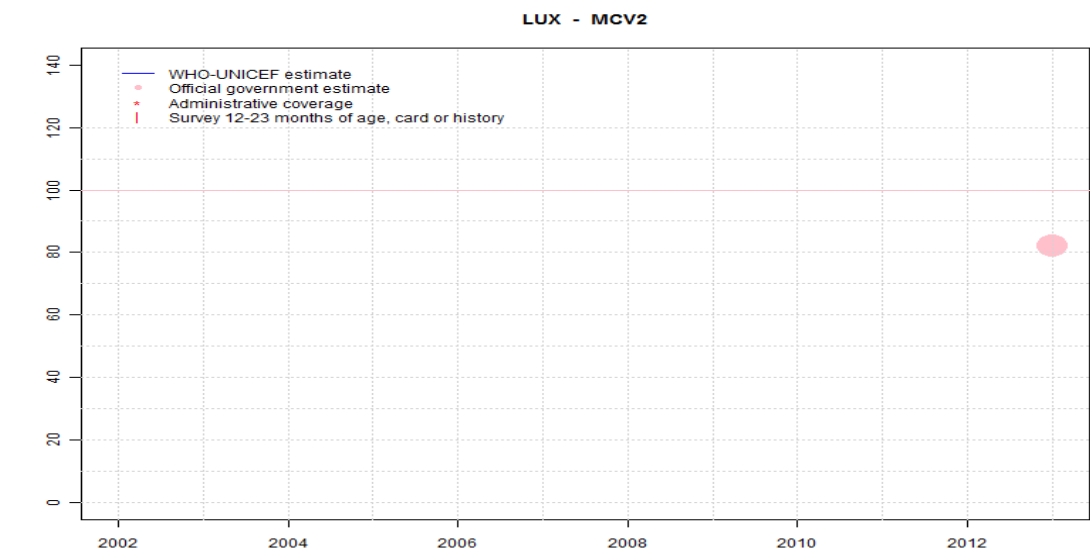
- Estimate is supported by reported data [R+], coverage recalculated with an independent denominator from the World Population Prospects: 2012 revision from the UN Population Division (D+), and at least one supporting survey within 2 years [S+]. While well supported, the estimate still carries a risk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

Description:

- 2002: Estimate based on interpolation between data reported by national government. High levels of coverage are supported by a survey of 511 children 25-30 months of age, which shows coverage of 95.3 percent. GoC=No accepted empirical data
- 2003: Estimate based on coverage reported by national government. GoC=R+
- 2004: Estimate based on coverage reported by national government. Estimate of 95 percent changed from previous revision value of 93 percent. GoC=R+
- 2005: Estimate based on coverage reported by national government. GoC=R+
- 2006: Estimate based on coverage reported by national government. GoC=R+
- 2007: Estimate based on coverage reported by national government. GoC=R+
- 2008: Estimate based on coverage reported by national government. Nationally reported data are based on the 2007-2008 vaccination coverage survey. High levels of coverage are supported by a survey of 562 children 25-30 months of age, which shows coverage of 96.2 percent. GoC=R+
- 2009: Estimate based on coverage reported by national government. Nationally reported data are based on the 2007-2008 vaccination coverage survey. GoC=R+
- 2010: Estimate based on coverage reported by national government. High levels of coverage supported by a survey of 614 children aged 25-30 m which shows coverage of 99 percent. GoC=R+
- 2011: Estimate based on coverage reported by national government. GoC=R+
- 2012: Estimate based on coverage reported by national government. Estimate of 99 percent changed from previous revision value of 96 percent. GoC=R+
- 2013: Estimate based on coverage reported by national government. GoC=R+

Luxembourg - MCV2



Description:

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

2013: Estimate based on coverage reported by national government. GoC=R+

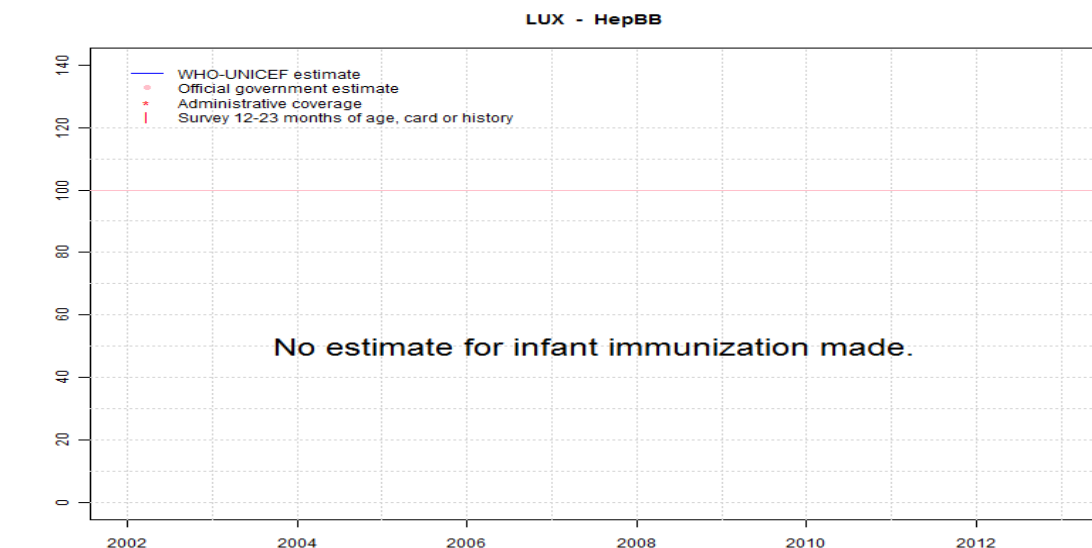
	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Estimate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	82
Estimate GoC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	●●
Official	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	82
Administrative	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Survey	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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.

Luxembourg - HepBB



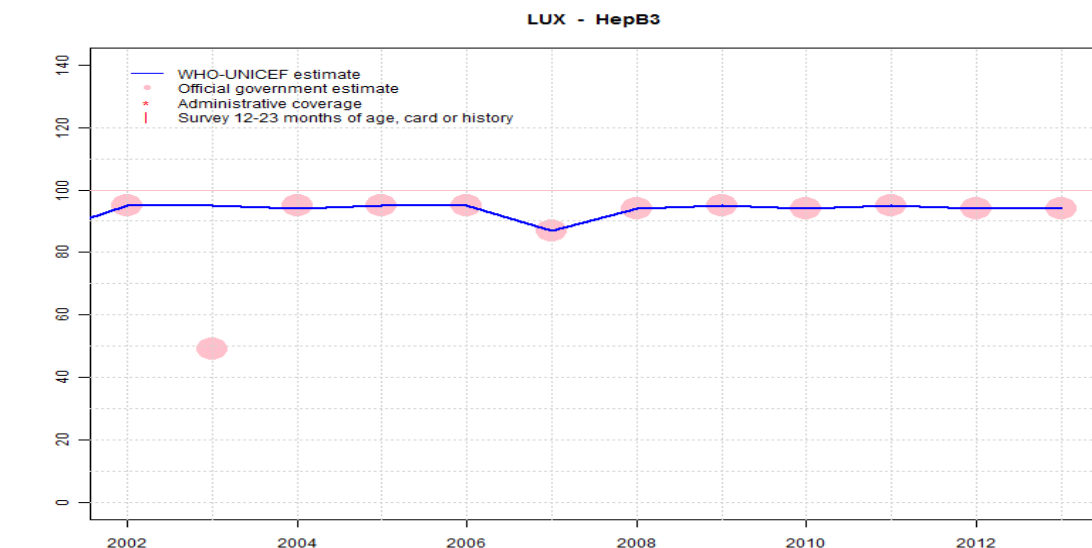
	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Estimate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Estimate GoC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Official	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Administrative	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Survey	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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.

Luxembourg - HepB3



	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Estimate	95	95	94	95	95	87	94	95	94	95	94	94
Estimate GoC	●●	●	●	●●	●●	●●	●●	●●	●●	●●	●●	●●
Official	95	49	95	95	95	87	94	95	94	95	94	94
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.

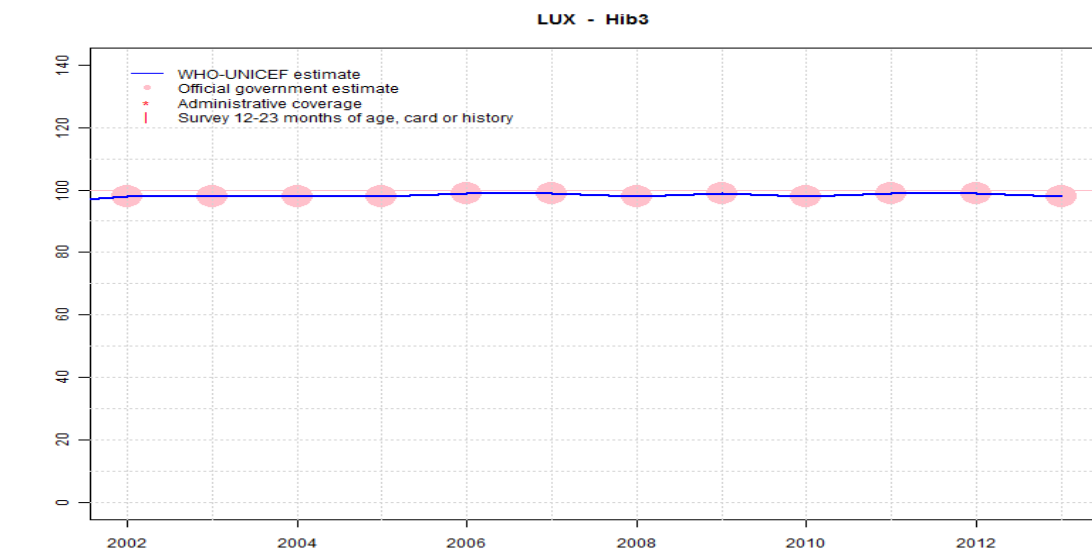
- Estimate is supported by reported data [R+], coverage recalculated with an independent denominator from the World Population Prospects: 2012 revision from the UN Population Division (D+), and at least one supporting survey within 2 years [S+]. While well supported, the estimate still carries a risk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

Description:

- 2002: Estimate based on coverage reported by national government. High levels of coverage are supported by a survey of 511 children 25-30 months of age, which shows coverage of 94.5 percent. Estimate of 95 percent changed from previous revision value of 49 percent. GoC=R+
- 2003: Estimate based on interpolation between data reported by national government. Reported data excluded. Decline in reported coverage from 95 percent to 49 percent with increase to 95 percent. Estimate of 95 percent changed from previous revision value of 49 percent. GoC=No accepted empirical data
- 2004: Estimate based on card only survey results. Estimate challenged by: R-
- 2005: Estimate based on coverage reported by national government. GoC=R+
- 2006: Estimate based on coverage reported by national government. Estimate of 95 percent changed from previous revision value of 91 percent. GoC=R+
- 2007: Estimate based on coverage reported by national government. GoC=R+
- 2008: Estimate based on coverage reported by national government. Nationally reported data are based on the 2007-2008 vaccination coverage survey. High levels of coverage are supported by a survey of 562 children 25-30 months of age, which shows coverage of 94.5 percent. GoC=R+
- 2009: Estimate based on coverage reported by national government. Nationally reported data are based on the 2007-2008 vaccination coverage survey. GoC=R+
- 2010: Estimate based on coverage reported by national government. High levels of coverage supported by a survey of 614 children aged 25-30 m which shows coverage of 94 percent. GoC=R+
- 2011: Estimate based on coverage reported by national government. GoC=R+
- 2012: Estimate based on coverage reported by national government. Estimate of 94 percent changed from previous revision value of 95 percent. GoC=R+
- 2013: Estimate based on coverage reported by national government. GoC=R+

Luxembourg - Hib3



	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Estimate	98	98	98	98	99	99	98	99	98	99	99	98
Estimate GoC	●●	●●	●●	●●	●●	●●	●●	●●	●●	●●	●●	●●
Official	98	98	98	98	99	99	98	99	98	99	99	98
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.

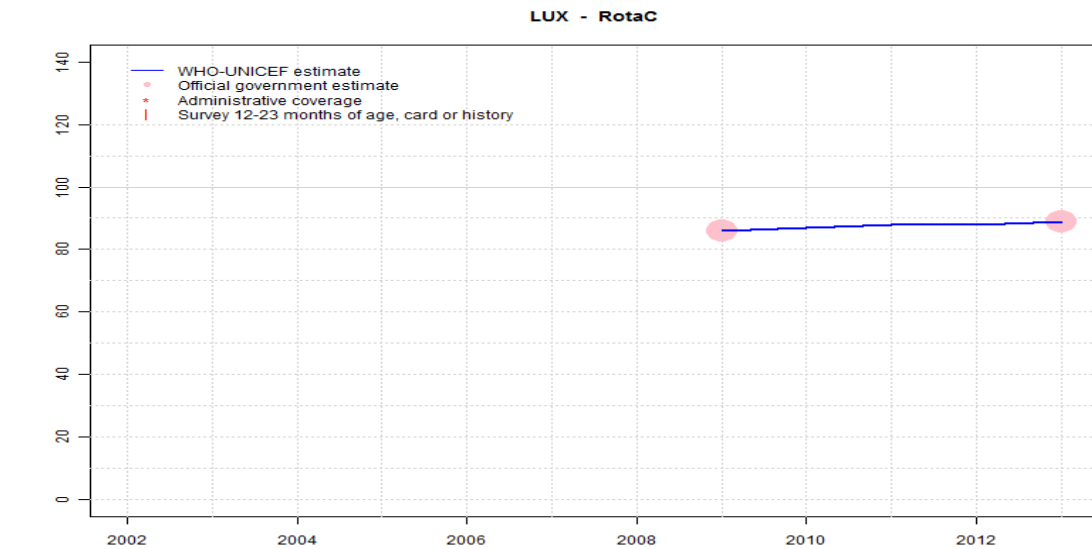
- Estimate is supported by reported data [R+], coverage recalculated with an independent denominator from the World Population Prospects: 2012 revision from the UN Population Division (D+), and at least one supporting survey within 2 years [S+]. While well supported, the estimate still carries a risk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

Description:

- 2002: Estimate based on coverage reported by national government. High levels of coverage are supported by a survey of 511 children 25-30 months of age, which shows coverage of 98.3 percent. Estimate of 98 percent changed from previous revision value of 94 percent. GoC=R+
- 2003: Estimate based on coverage reported by national government. Estimate of 98 percent changed from previous revision value of 95 percent. GoC=R+
- 2004: Estimate based on coverage reported by national government. Estimate of 98 percent changed from previous revision value of 97 percent. GoC=R+
- 2005: Estimate based on coverage reported by national government. GoC=R+
- 2006: Estimate based on coverage reported by national government. GoC=R+
- 2007: Estimate based on coverage reported by national government. GoC=R+
- 2008: Estimate based on coverage reported by national government. Nationally reported data are based on the 2007-2008 vaccination coverage survey. High levels of coverage are supported by a survey of 562 children 25-30 months of age, which shows coverage of 98.5 percent. GoC=R+
- 2009: Estimate based on coverage reported by national government. Nationally reported data are based on the 2007-2008 vaccination coverage survey. GoC=R+
- 2010: Estimate based on coverage reported by national government. High levels of coverage supported by a survey of 614 children aged 25-30 m which shows coverage of 99 percent. GoC=R+
- 2011: Estimate based on coverage reported by national government. GoC=R+
- 2012: Estimate based on coverage reported by national government. GoC=R+
- 2013: Estimate based on coverage reported by national government. GoC=R+

Luxembourg - RotaC



	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Estimate	NA	NA	NA	NA	NA	NA	NA	86	87	88	88	89
Estimate GoC	NA	NA	NA	NA	NA	NA	NA	●●	●	●	●	●●
Official	NA	NA	NA	NA	NA	NA	NA	86	NA	NA	NA	89
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.

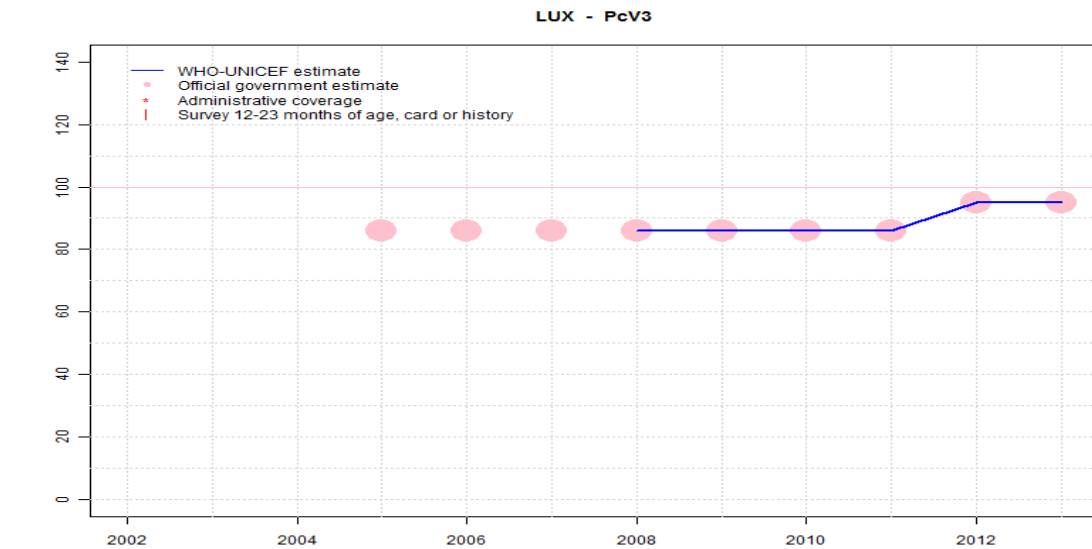
- Estimate is supported by reported data [R+], coverage recalculated with an independent denominator from the World Population Prospects: 2012 revision from the UN Population Division (D+), and at least one supporting survey within 2 years [S+]. While well supported, the estimate still carries a risk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

Description:

- 2009: Estimate based on coverage reported by national government. Nationally reported data are based on the 2007-2008 vaccination coverage survey. GoC=R+
- 2010: Estimate based on interpolation between reported values. Estimate of 87 percent changed from previous revision value of 86 percent. GoC=No accepted empirical data
- 2011: Estimate based on interpolation between reported values. Estimate of 88 percent changed from previous revision value of 86 percent. GoC=No accepted empirical data
- 2012: Estimate based on interpolation between reported values. Estimate of 88 percent changed from previous revision value of 86 percent. GoC=No accepted empirical data
- 2013: Estimate based on coverage reported by national government. GoC=R+

Luxembourg - PcV3



	2002	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013
Estimate	NA	NA	NA	NA	NA	NA	86	86	86	86	95	95
Estimate GoC	NA	NA	NA	NA	NA	NA	●●	●●	●●	●●	●●	●●
Official	NA	NA	NA	86	86	86	86	86	86	86	95	95
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.

Description:

- 2008: Estimate based on coverage reported by national government. Nationally reported data are based on the 2007-2008 vaccination coverage survey. Pneumococcal conjugate vaccine introduced in 2005 reporting started in 2008. High levels of coverage are supported by a survey of 562 children 25-30 months of age, which shows coverage of 85.6 percent. GoC=R+
- 2009: Estimate based on coverage reported by national government. Nationally reported data are based on the 2007-2008 vaccination coverage survey. GoC=R+
- 2010: Estimate based on coverage reported by national government. High levels of coverage supported by a survey of 614 children aged 25-30 m which shows coverage of 95 percent. GoC=R+
- 2011: Estimate based on coverage reported by national government. GoC=R+
- 2012: Estimate based on coverage reported by national government. Estimate of 95 percent changed from previous revision value of 86 percent. GoC=R+
- 2013: Estimate based on coverage reported by national government. GoC=R+

Luxembourg - survey details

2010 Enquête de couverture vaccinale au Grand-Duché de Luxembourg 2012

Vaccine	Confirmation method	Coverage	Age cohort	Sample	Cards seen
DTP1	Card	100	25-30 m	614	98
DTP3	Card	99	25-30 m	614	98

HepB3	Card	94	25-30 m	614	98
Hib3	Card	99	25-30 m	614	98
MCV	Card	99	25-30 m	614	98
PcV3	Card	95	25-30 m	614	98
Pol3	Card	100	25-30 m	614	98

Further information and estimates prior to 2002 are available at:

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

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