

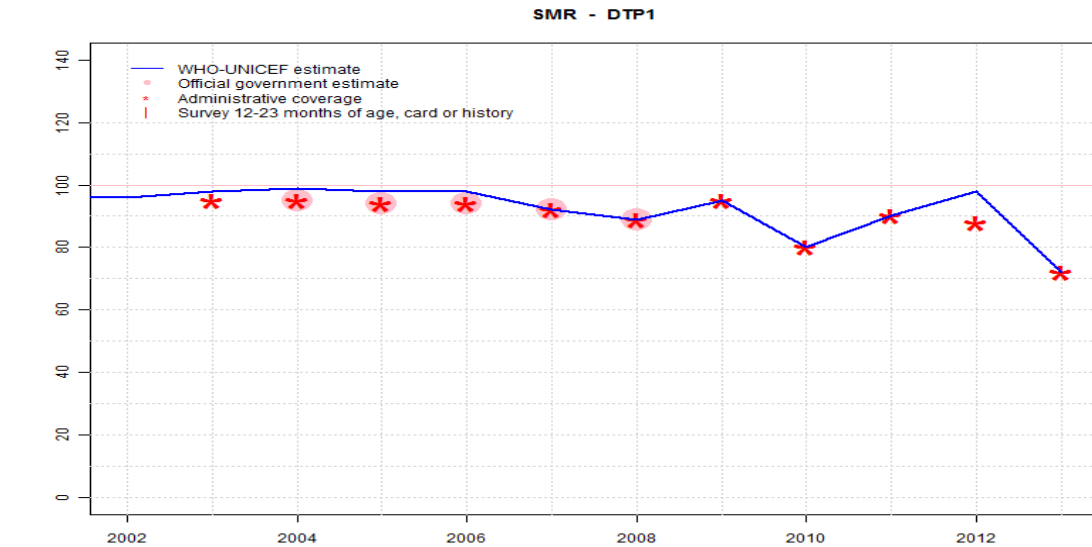
| | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Estimate | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Estimate GoC | NA | NA | NA | NA | 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.

San Marino - DTP1



| | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Estimate | 96 | 98 | 99 | 98 | 98 | 92 | 89 | 95 | 80 | 90 | 98 | 72 |
| Estimate GoC | • | • | • | • | • | • | • | • | • | • | • | •• |
| Official | NA | NA | 95 | 94 | 94 | 92 | 89 | NA | NA | NA | NA | NA |
| Administrative | NA | 95 | 95 | 94 | 94 | 92 | 89 | 95 | 80 | 90 | 88 | 72 |
| 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.

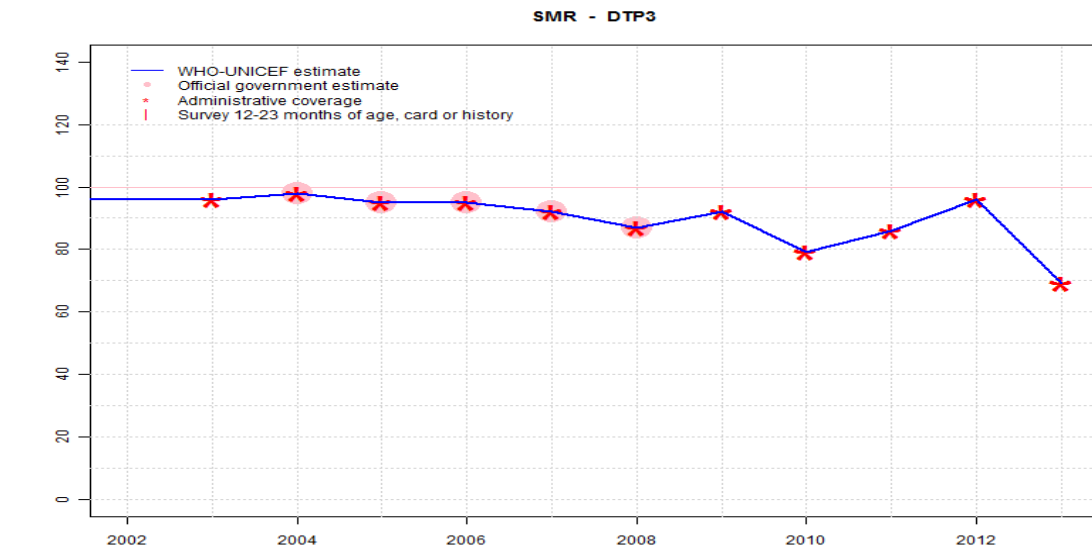
- Estimate is supported by reported data [R+], coverage recalculated with an independent denominator from the World Population Prospects: 2012 revision from the UN Population Division (D+), and at least one supporting survey within 2 years [S+]. While well supported, the estimate still carries a risk 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. Estimate is based on the reported data. GoC=No accepted empirical data
- 2003: DTP1 coverage estimated based on DTP3 coverage of 96. Estimate is based on the reported data. Estimate challenged by: D-R-
- 2004: DTP1 coverage estimated based on DTP3 coverage of 98. Estimate is based on the reported data. Estimate challenged by: D-R-
- 2005: DTP1 coverage estimated based on DTP3 coverage of 95. Estimate is based on the reported data. Estimate challenged by: R-
- 2006: DTP1 coverage estimated based on DTP3 coverage of 95. Estimate is based on the reported data. Estimate challenged by: R-
- 2007: Estimate based on coverage reported by national government. Estimate is based on the reported data. Estimate challenged by: D-
- 2008: Estimate based on coverage reported by national government. Estimate is based on the reported data. Estimate challenged by: D-
- 2009: Estimate based on reported administrative data. Estimate is based on the reported data. Estimate challenged by: D-
- 2010: Estimate based on reported administrative data. Estimate is based on the reported data. Estimate challenged by: D-
- 2011: Estimate based on reported administrative data. Estimate is based on the reported data. Estimate challenged by: D-
- 2012: DTP1 coverage estimated based on DTP3 coverage of 96. Estimate is based on the reported data. Estimate challenged by: R-
- 2013: Estimate based on reported administrative data. No nationally representative household survey within the last 5 years. WHO and UNICEF recommend a high-quality survey to confirm reported levels of coverage. Estimate is based on the reported data. GoC=R+ D+

San Marino - DTP3



| | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Estimate | 96 | 96 | 98 | 95 | 95 | 92 | 87 | 92 | 79 | 86 | 96 | 69 |
| Estimate GoC | ● | ● | ● | ● | ●● | ● | ● | ● | ● | ● | ● | ●● |
| Official | NA | NA | 98 | 95 | 95 | 92 | 87 | NA | NA | NA | NA | NA |
| Administrative | NA | 96 | 98 | 95 | 95 | 92 | 87 | 92 | 79 | 86 | 96 | 69 |
| 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.

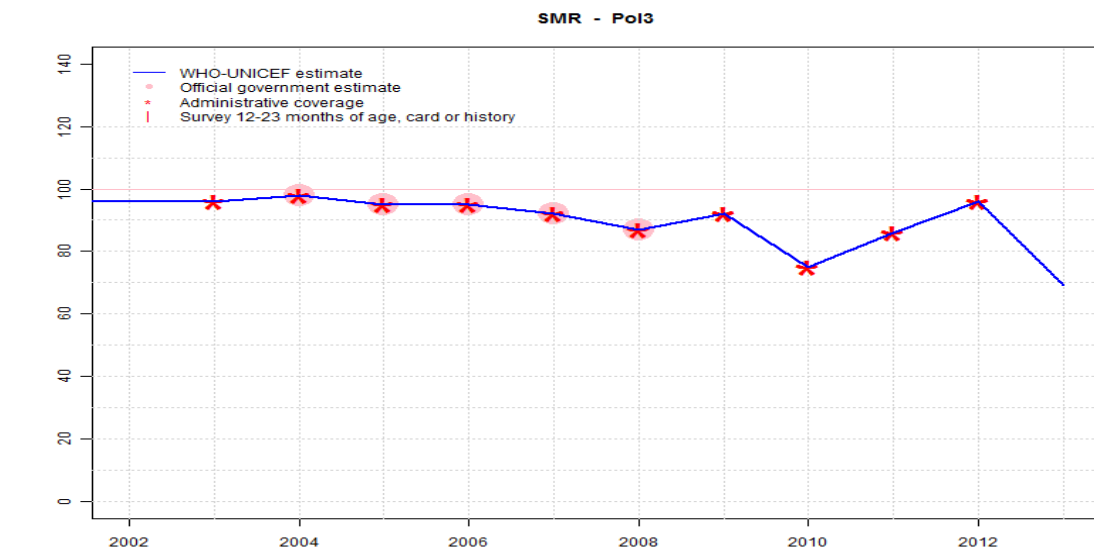
- Estimate is supported by reported data [R+], coverage recalculated with an independent denominator from the World Population Prospects: 2012 revision from the UN Population Division (D+), and at least one supporting survey within 2 years [S+]. While well supported, the estimate still carries a risk 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. Estimate is based on the reported data. GoC=No accepted empirical data
- 2003: Estimate based on reported administrative data. Estimate is based on the reported data. Estimate challenged by: D-
- 2004: Estimate based on coverage reported by national government. Estimate is based on the reported data. Estimate challenged by: D-
- 2005: Estimate based on coverage reported by national government. Estimate is based on the reported data. Estimate challenged by: D-
- 2006: Estimate based on coverage reported by national government. Estimate is based on the reported data. GoC=R+ D+
- 2007: Estimate based on coverage reported by national government. Estimate is based on the reported data. Estimate challenged by: D-
- 2008: Estimate based on coverage reported by national government. Estimate is based on the reported data. Estimate challenged by: D-
- 2009: Estimate based on reported administrative data. Estimate is based on the reported data. Estimate challenged by: D-
- 2010: Estimate based on reported administrative data. Estimate is based on the reported data. Estimate challenged by: D-
- 2011: Estimate based on reported administrative data. Estimate is based on the reported data. Estimate challenged by: D-
- 2012: Estimate based on reported administrative data. Estimate is based on the reported data. Estimate challenged by: D-
- 2013: Estimate based on reported administrative data. No nationally representative household survey within the last 5 years. WHO and UNICEF recommend a high-quality survey to confirm reported levels of coverage. Estimate is based on the reported data. GoC=R+ D+

San Marino - Pol3



| | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Estimate | 96 | 96 | 98 | 95 | 95 | 92 | 87 | 92 | 75 | 86 | 96 | 69 |
| Estimate GoC | • | •• | • | • | •• | • | • | • | • | • | • | • |
| Official | NA | NA | 98 | 95 | 95 | 92 | 87 | NA | NA | NA | NA | NA |
| Administrative | NA | 96 | 98 | 95 | 95 | 92 | 87 | 92 | 75 | 86 | 96 | 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.

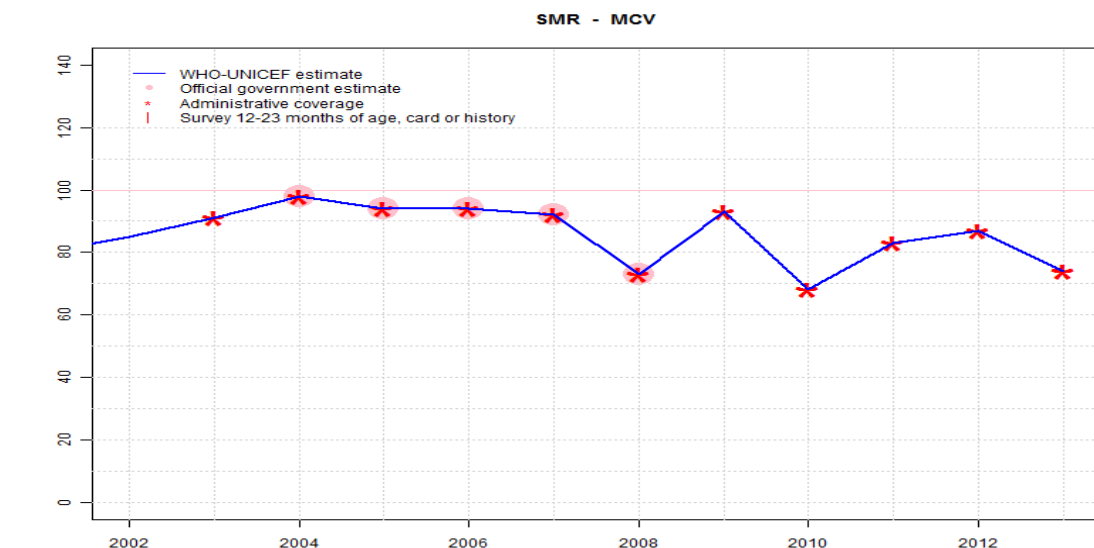
- Estimate is supported by reported data [R+], coverage recalculated with an independent denominator from the World Population Prospects: 2012 revision from the UN Population Division (D+), and at least one supporting survey within 2 years [S+]. While well supported, the estimate still carries a risk 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. Estimate is based on the reported data. GoC=No accepted empirical data
- 2003: Estimate based on reported administrative data. Estimate is based on the reported data. GoC=R+
- 2004: Estimate based on coverage reported by national government. Estimate is based on the reported data. Estimate challenged by: D-
- 2005: Estimate based on coverage reported by national government. Estimate is based on the reported data. Estimate challenged by: D-
- 2006: Estimate based on coverage reported by national government. Estimate is based on the reported data. GoC=R+ D+
- 2007: Estimate based on coverage reported by national government. Estimate is based on the reported data. Estimate challenged by: D-
- 2008: Estimate based on coverage reported by national government. Estimate is based on the reported data. Estimate challenged by: D-
- 2009: Estimate based on reported administrative data. Estimate is based on the reported data. Estimate challenged by: D-
- 2010: Estimate based on reported administrative data. Estimate is based on the reported data. Estimate challenged by: D-
- 2011: Estimate based on reported administrative data. Estimate is based on the reported data. Estimate challenged by: D-
- 2012: Estimate based on reported administrative data. Estimate is based on the reported data. Estimate challenged by: D-
- 2013: Estimate is based on reported coverage for DTP3. Vaccine presentation is DTP-HepB-Hib-IPV. No nationally representative household survey within the last 5 years. WHO and UNICEF recommend a high-quality survey to confirm reported levels of coverage. Estimate is based on the reported data. GoC=No accepted empirical data

San Marino - MCV



| | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Estimate | 85 | 91 | 98 | 94 | 94 | 92 | 73 | 93 | 68 | 83 | 87 | 74 |
| Estimate GoC | • | •• | • | • | •• | • | • | • | • | • | • | •• |
| Official | NA | NA | 98 | 94 | 94 | 92 | 73 | NA | NA | NA | NA | NA |
| Administrative | NA | 91 | 98 | 94 | 94 | 92 | 73 | 93 | 68 | 83 | 87 | 74 |
| 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.

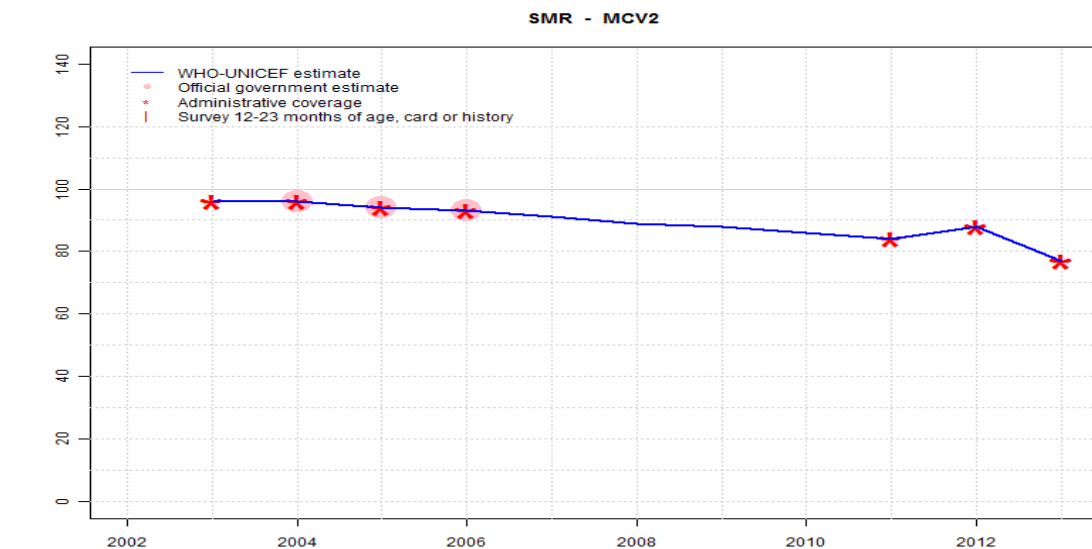
- Estimate is supported by reported data [R+], coverage recalculated with an independent denominator from the World Population Prospects: 2012 revision from the UN Population Division (D+), and at least one supporting survey within 2 years [S+]. While well supported, the estimate still carries a risk 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. Estimate is based on the reported data. GoC=No accepted empirical data
- 2003: Estimate based on reported administrative data. Estimate is based on the reported data. GoC=R+
- 2004: Estimate based on coverage reported by national government. Estimate is based on the reported data. Estimate challenged by: D-
- 2005: Estimate based on coverage reported by national government. Estimate is based on the reported data. Estimate challenged by: D-
- 2006: Estimate based on coverage reported by national government. Estimate is based on the reported data. GoC=R+ D+
- 2007: Estimate based on coverage reported by national government. Estimate is based on the reported data. Estimate challenged by: D-
- 2008: Estimate based on coverage reported by national government. Estimate is based on the reported data. Estimate challenged by: D-
- 2009: Estimate based on reported administrative data. Estimate is based on the reported data. Estimate challenged by: D-
- 2010: Estimate based on reported administrative data. Estimate is based on the reported data. Estimate challenged by: D-
- 2011: Estimate based on reported administrative data. Estimate is based on the reported data. Estimate challenged by: D-
- 2012: Estimate based on reported administrative data. Estimate is based on the reported data. Estimate challenged by: D-
- 2013: Estimate based on reported administrative data. No nationally representative household survey within the last 5 years. WHO and UNICEF recommend a high-quality survey to confirm reported levels of coverage. Estimate is based on the reported data. GoC=R+ D+

San Marino - MCV2



| | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Estimate | NA | 96 | 96 | 94 | 93 | 91 | 89 | 88 | 86 | 84 | 88 | 77 |
| Estimate GoC | NA | ● | ● | ● | ●● | ● | ● | ● | ● | ● | ● | ● |
| Official | NA | NA | 96 | 94 | 93 | NA | NA | NA | NA | NA | NA | NA |
| Administrative | NA | 96 | 96 | 94 | 93 | NA | NA | NA | NA | 84 | 88 | 77 |
| 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.

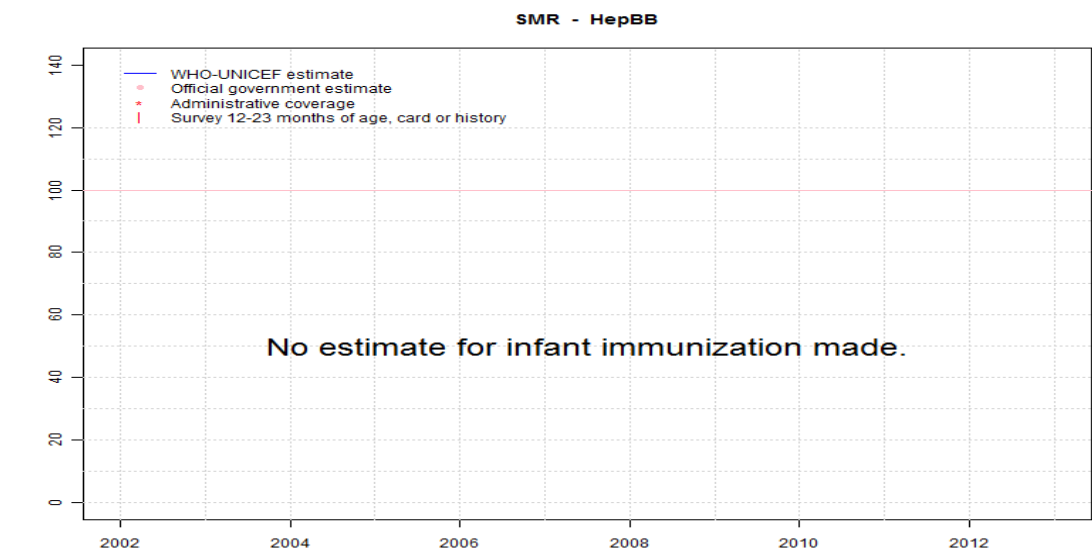
- Estimate is supported by reported data [R+], coverage recalculated with an independent denominator from the World Population Prospects: 2012 revision from the UN Population Division (D+), and at least one supporting survey within 2 years [S+]. While well supported, the estimate still carries a risk 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 reported administrative estimate. Estimate is based on the reported data. Estimate challenged by: D-
- 2004: Estimate based on coverage reported by national government. Estimate is based on the reported data. Estimate challenged by: D-
- 2005: Estimate based on coverage reported by national government. Estimate is based on the reported data. Estimate challenged by: D-
- 2006: Estimate based on coverage reported by national government. Estimate is based on the reported data. GoC=R+ D+
- 2007: Estimate based on interpolation between reported values. Estimate is based on the reported data. GoC=No accepted empirical data
- 2008: Estimate based on interpolation between reported values. Estimate is based on the reported data. GoC=No accepted empirical data
- 2009: Estimate based on interpolation between reported values. Estimate is based on the reported data. GoC=No accepted empirical data
- 2010: Estimate based on interpolation between reported values. Estimate is based on the reported data. GoC=No accepted empirical data
- 2011: Estimate based on reported administrative estimate. Estimate is based on the reported data. Estimate challenged by: D-
- 2012: Estimate based on reported administrative estimate. Estimate is based on the reported data. Estimate challenged by: D-
- 2013: Estimate based on reported administrative estimate. No nationally representative household survey within the last 5 years. WHO and UNICEF recommend a high-quality survey to confirm reported levels of coverage. Estimate is based on the reported data. Estimate challenged by: D-



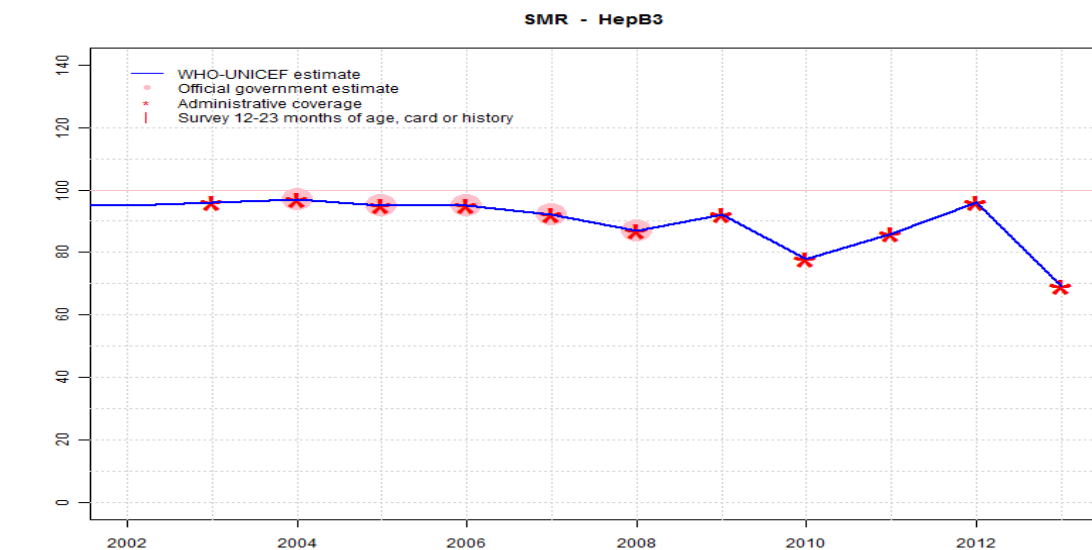
| | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Estimate | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Estimate GoC | NA | NA | NA | NA | 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.

San Marino - HepB3



| | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Estimate | 95 | 96 | 97 | 95 | 95 | 92 | 87 | 92 | 78 | 86 | 96 | 69 |
| Estimate GoC | • | •• | • | • | •• | •• | • | • | • | • | • | •• |
| Official | NA | NA | 97 | 95 | 95 | 92 | 87 | NA | NA | NA | NA | NA |
| Administrative | NA | 96 | 97 | 95 | 95 | 92 | 87 | 92 | 78 | 86 | 96 | 69 |
| 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.

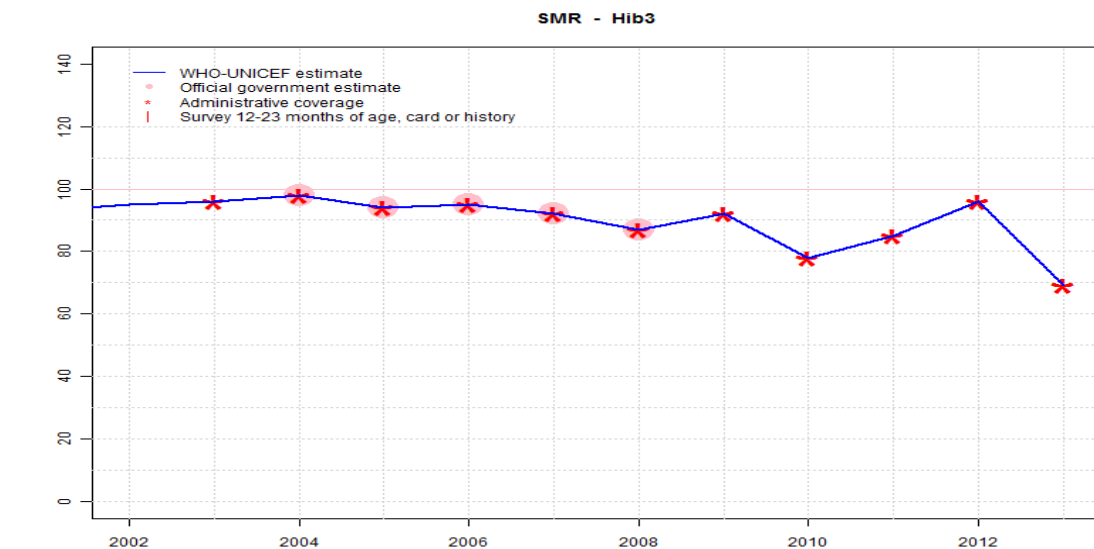
- Estimate is supported by reported data [R+], coverage recalculated with an independent denominator from the World Population Prospects: 2012 revision from the UN Population Division (D+), and at least one supporting survey within 2 years [S+]. While well supported, the estimate still carries a risk 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. Estimate is based on the reported data. GoC=No accepted empirical data
- 2003: Estimate based on reported administrative data. Estimate is based on the reported data. GoC=R+
- 2004: Estimate based on coverage reported by national government. Estimate is based on the reported data. Estimate challenged by: D-
- 2005: Estimate based on coverage reported by national government. Estimate is based on the reported data. Estimate challenged by: D-
- 2006: Estimate based on coverage reported by national government. Estimate is based on the reported data. GoC=R+ D+
- 2007: Estimate based on coverage reported by national government. Estimate is based on the reported data. GoC=R+ D+
- 2008: Estimate based on coverage reported by national government. Estimate is based on the reported data. Estimate challenged by: D-
- 2009: Estimate based on reported administrative data. Estimate is based on the reported data. Estimate challenged by: D-
- 2010: Estimate based on reported administrative data. Estimate is based on the reported data. Estimate challenged by: D-
- 2011: Estimate based on reported administrative data. Estimate is based on the reported data. Estimate challenged by: D-
- 2012: Estimate based on reported administrative data. Estimate is based on the reported data. Estimate challenged by: D-
- 2013: Estimate based on reported administrative data. No nationally representative household survey within the last 5 years. WHO and UNICEF recommend a high-quality survey to confirm reported levels of coverage. Estimate is based on the reported data. GoC=R+ D+

San Marino - Hib3



| | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Estimate | 95 | 96 | 98 | 94 | 95 | 92 | 87 | 92 | 78 | 85 | 96 | 69 |
| Estimate GoC | ● | ●● | ● | ● | ●● | ● | ● | ● | ● | ● | ● | ●● |
| Official | NA | NA | 98 | 94 | 95 | 92 | 87 | NA | NA | NA | NA | NA |
| Administrative | NA | 96 | 98 | 94 | 95 | 92 | 87 | 92 | 78 | 85 | 96 | 69 |
| 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.

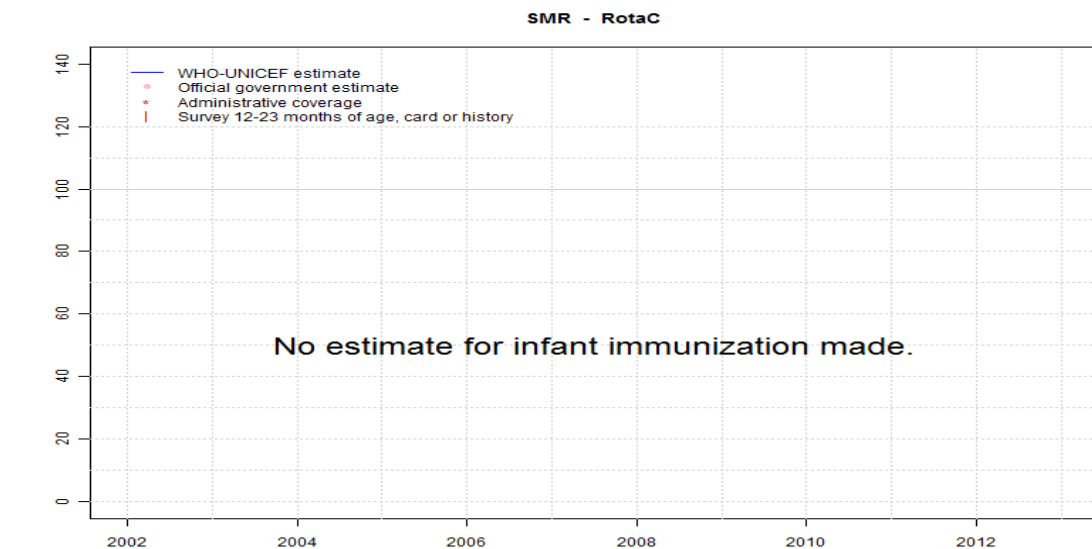
- Estimate is supported by reported data [R+], coverage recalculated with an independent denominator from the World Population Prospects: 2012 revision from the UN Population Division (D+), and at least one supporting survey within 2 years [S+]. While well supported, the estimate still carries a risk 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. Estimate is based on the reported data. GoC=No accepted empirical data
- 2003: Estimate based on reported administrative data. Estimate is based on the reported data. GoC=R+
- 2004: Estimate based on coverage reported by national government. Estimate is based on the reported data. Estimate challenged by: D-
- 2005: Estimate based on coverage reported by national government. Estimate is based on the reported data. Estimate challenged by: D-
- 2006: Estimate based on coverage reported by national government. Estimate is based on the reported data. GoC=R+ D+
- 2007: Estimate based on coverage reported by national government. Estimate is based on the reported data. Estimate challenged by: D-
- 2008: Estimate based on coverage reported by national government. Estimate is based on the reported data. Estimate challenged by: D-
- 2009: Estimate based on reported administrative data. Estimate is based on the reported data. Estimate challenged by: D-
- 2010: Estimate based on reported administrative data. Estimate is based on the reported data. Estimate challenged by: D-
- 2011: Estimate based on reported administrative data. Estimate is based on the reported data. Estimate challenged by: D-
- 2012: Estimate based on reported administrative data. Estimate is based on the reported data. Estimate challenged by: D-
- 2013: Estimate based on reported administrative data. No nationally representative household survey within the last 5 years. WHO and UNICEF recommend a high-quality survey to confirm reported levels of coverage. Estimate is based on the reported data. GoC=R+ D+

San Marino - RotaC

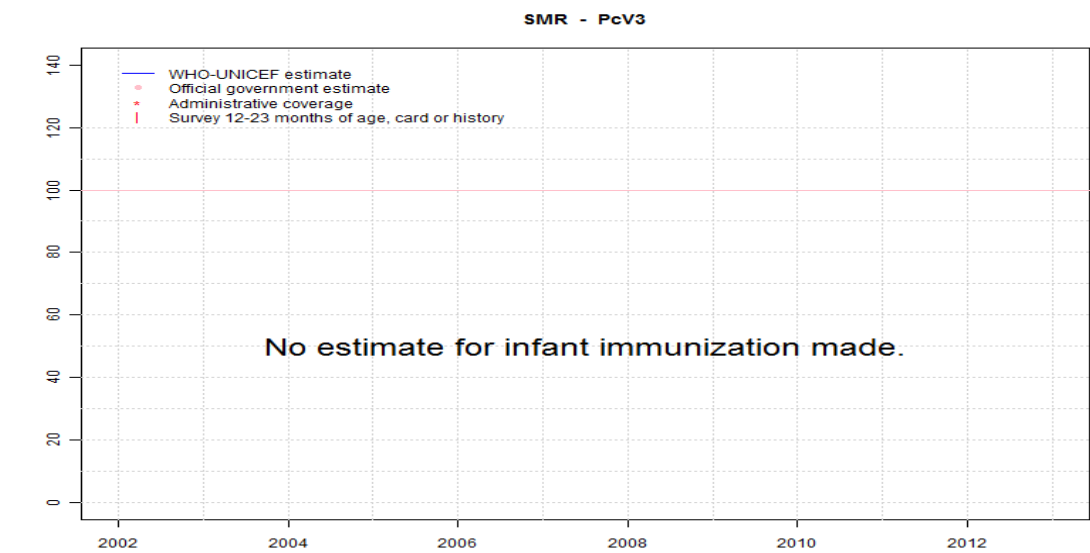


| | 2002 | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Estimate | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Estimate GoC | NA | NA | NA | NA | 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.



| | 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.

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