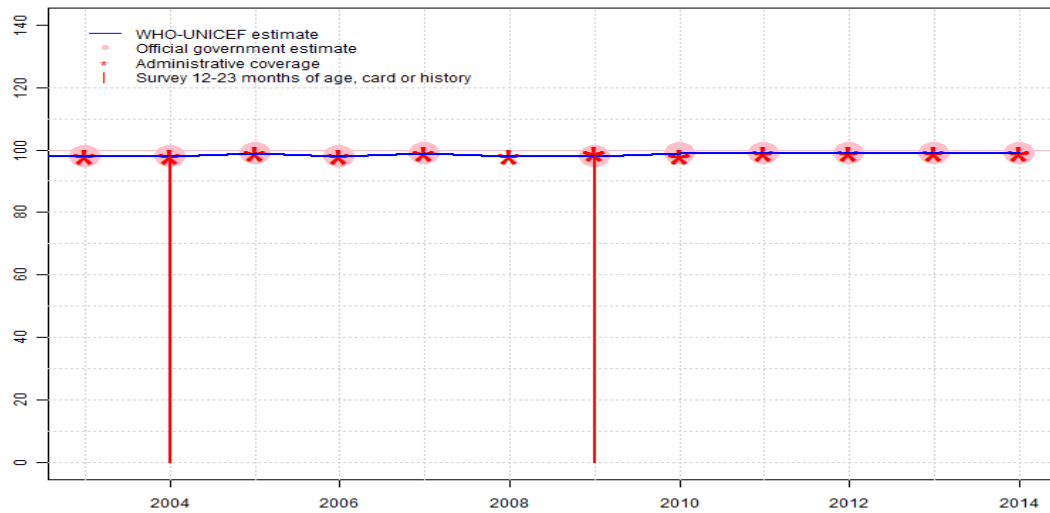


Mongolia - BCG

MNG - BCG



| | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Estimate | 98 | 98 | 99 | 98 | 99 | 98 | 98 | 99 | 99 | 99 | 99 | 99 |
| Estimate GoC | ●●● | ● | ● | ● | ●●● | ●●● | ● | ●●● | ● | ● | ● | ● |
| Official | 98 | 98 | 99 | 98 | 99 | NA | 98 | 99 | 99 | 99 | 99 | 99 |
| Administrative | 98 | 98 | 99 | 98 | 99 | 98 | 99 | 98 | 99 | 99 | 99 | 99 |
| Survey | NA | 98 | NA | NA | NA | NA | 98 | 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.

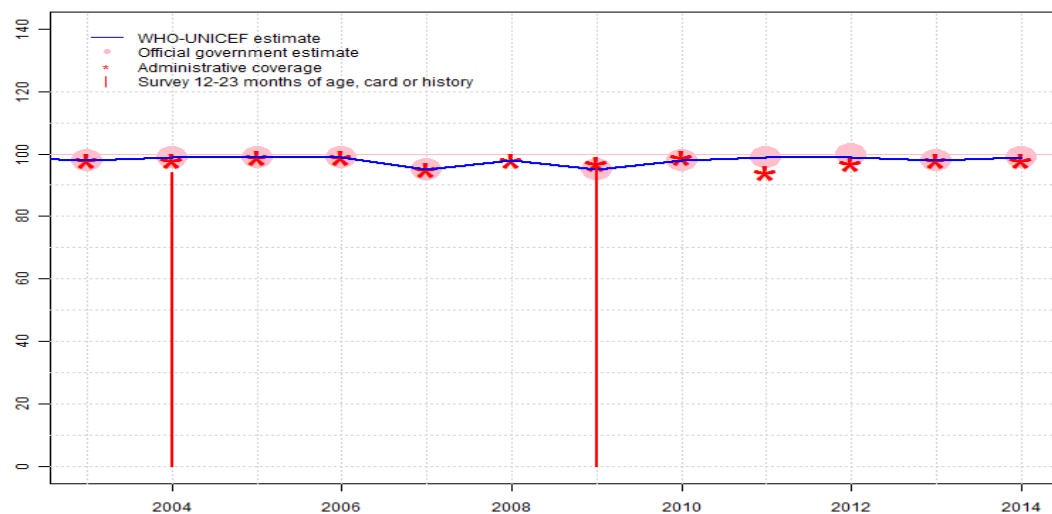
In all cases these estimates should be used with caution and should be assessed in light of the objective for which they are being used.

Description:

- 2003: Estimate based on coverage reported by national government. GoC=R+ S+ D+
- 2004: Estimate based on coverage reported by national government supported by survey. Survey evidence of 98 percent based on 1 survey(s). Estimate challenged by: D-
- 2005: Estimate based on coverage reported by national government. Estimate challenged by: D-
- 2006: Estimate based on coverage reported by national government. Estimate challenged by: D-
- 2007: Estimate based on coverage reported by national government. GoC=R+ S+ D+
- 2008: Estimate based on reported administrative data. GoC=R+ S+ D+
- 2009: Estimate based on coverage reported by national government supported by survey. Survey evidence of 98 percent based on 1 survey(s). Estimate challenged by: D-
- 2010: Estimate based on coverage reported by national government. GoC=R+ S+ D+
- 2011: Estimate based on coverage reported by national government. Estimate challenged by: 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. Estimate challenged by: D-

Mongolia - DTP1

MNG - DTP1



| | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Estimate | 98 | 99 | 99 | 99 | 95 | 98 | 95 | 98 | 99 | 99 | 98 | 99 |
| Estimate GoC | ●●● | ●●● | ● | ● | ●●● | ●●● | ● | ●●● | ●●● | ● | ● | ● |
| Official | 98 | 99 | 99 | 99 | 95 | NA | 95 | 98 | 99 | 100 | 98 | 99 |
| Administrative | 98 | 98 | 99 | 99 | 95 | 98 | 97 | 99 | 94 | 97 | 98 | 98 |
| Survey | NA | 94 | NA | NA | NA | NA | 96 | 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.

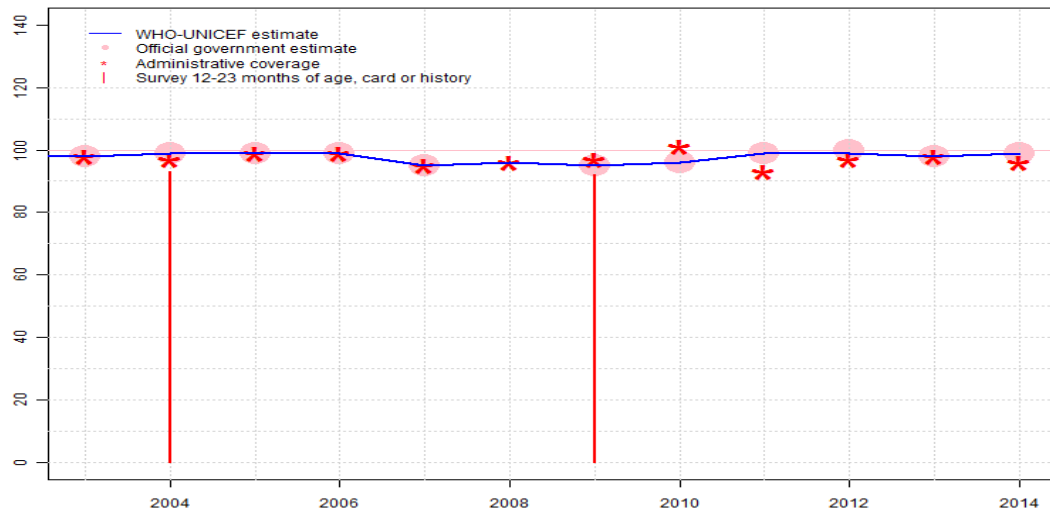
In all cases these estimates should be used with caution and should be assessed in light of the objective for which they are being used.

Description:

- 2003: Estimate based on coverage reported by national government. GoC=R+ S+ D+
- 2004: Estimate based on coverage reported by national government supported by survey. Survey evidence of 94 percent based on 1 survey(s). GoC=R+ S+ D+
- 2005: Estimate based on coverage reported by national government. Estimate challenged by: D-
- 2006: Estimate based on coverage reported by national government. Estimate challenged by: D-
- 2007: Estimate based on coverage reported by national government. GoC=R+ S+ D+
- 2008: Estimate based on reported administrative data. GoC=R+ S+ D+
- 2009: Estimate based on coverage reported by national government supported by survey. Survey evidence of 96 percent based on 1 survey(s). Estimate challenged by: D-
- 2010: Estimate based on coverage reported by national government. GoC=R+ S+ D+
- 2011: Estimate based on coverage reported by national government. GoC=R+ S+ 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. Estimate challenged by: D-

Mongolia - DTP3

MNG - DTP3



| | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Estimate | 98 | 99 | 99 | 99 | 95 | 96 | 95 | 96 | 99 | 99 | 98 | 99 |
| Estimate GoC | ●●● | ●●● | ● | ● | ●●● | ●●● | ● | ● | ●●● | ● | ● | ● |
| Official | 98 | 99 | 99 | 99 | 95 | NA | 95 | 96 | 99 | 100 | 98 | 99 |
| Administrative | 98 | 97 | 99 | 99 | 95 | 96 | 97 | 101 | 93 | 97 | 98 | 96 |
| Survey | NA | 93 | NA | NA | NA | NA | 92 | 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.

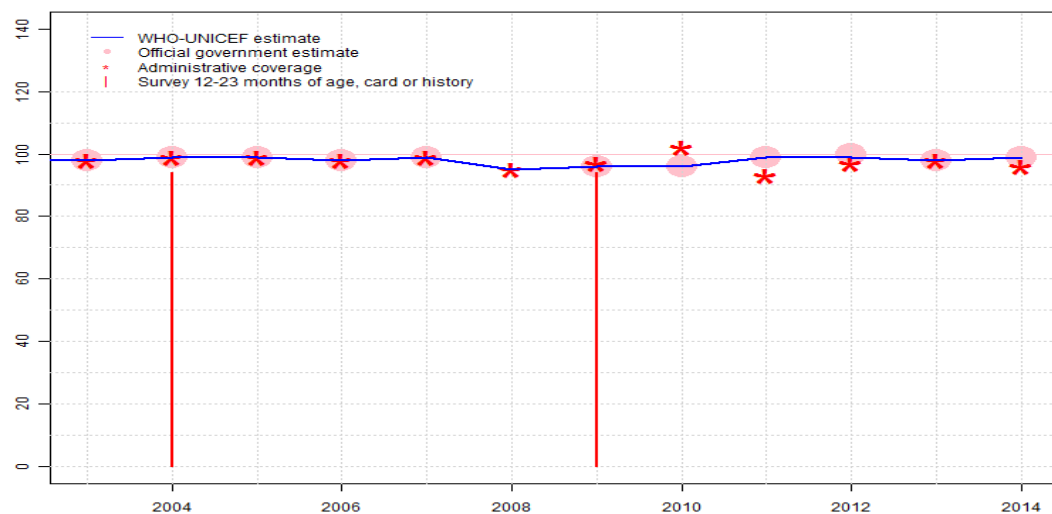
In all cases these estimates should be used with caution and should be assessed in light of the objective for which they are being used.

Description:

- 2003: Estimate based on coverage reported by national government. GoC=R+ S+ D+
- 2004: Estimate based on coverage reported by national government supported by survey. Survey evidence of 93 percent based on 1 survey(s). GoC=R+ S+ D+
- 2005: Estimate based on coverage reported by national government. Estimate challenged by: D-
- 2006: Estimate based on coverage reported by national government. Estimate challenged by: D-
- 2007: Estimate based on coverage reported by national government. GoC=R+ S+ D+
- 2008: Estimate based on reported administrative data. GoC=R+ S+ D+
- 2009: Estimate based on coverage reported by national government supported by survey. Survey evidence of 94 percent based on 1 survey(s). Mongolia Multiple Indicator Cluster Survey 2010 card or history results of 92 percent modified for recall bias to 94 percent based on 1st dose card or history coverage of 96 percent, 1st dose card only coverage of 81 percent and 3d dose card only coverage of 79 percent. Estimate challenged by: D-
- 2010: Estimate based on coverage reported by national government. Estimate challenged by: D-
- 2011: Estimate based on coverage reported by national government. GoC=R+ S+ 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. Estimate challenged by: D-

Mongolia - Pol3

MNG - Pol3



| | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Estimate | 98 | 99 | 99 | 98 | 99 | 95 | 96 | 96 | 99 | 99 | 98 | 99 |
| Estimate GoC | ●●● | ●●● | ● | ● | ●●● | ● | ● | ● | ●●● | ● | ● | ● |
| Official | 98 | 99 | 99 | 98 | 99 | NA | 96 | 96 | 99 | 100 | 98 | 99 |
| Administrative | 98 | 99 | 99 | 98 | 99 | 95 | 97 | 102 | 93 | 97 | 98 | 96 |
| Survey | NA | 94 | NA | NA | NA | NA | 94 | 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.

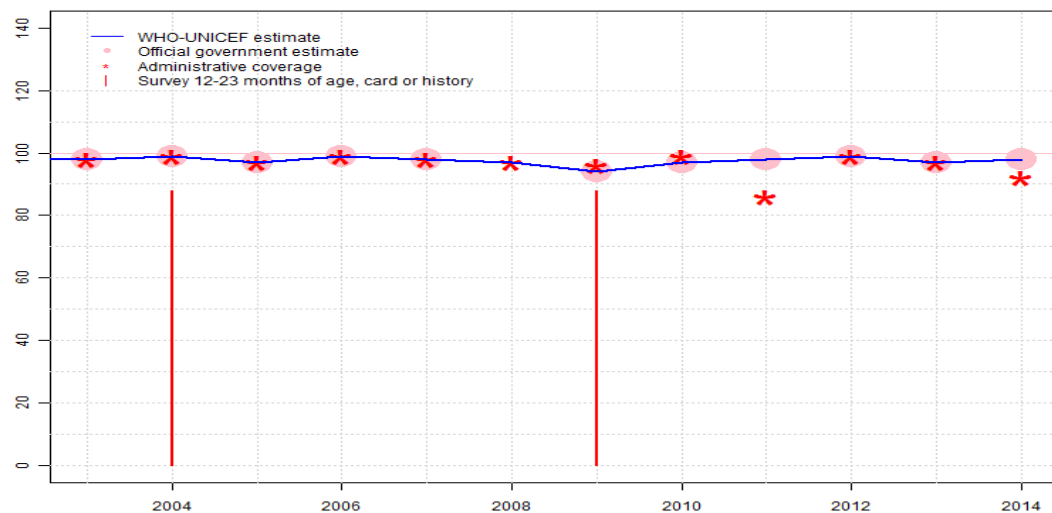
In all cases these estimates should be used with caution and should be assessed in light of the objective for which they are being used.

Description:

- 2003: Estimate based on coverage reported by national government. GoC=R+ S+ D+
- 2004: Estimate based on coverage reported by national government supported by survey. Survey evidence of 93 percent based on 1 survey(s). Mongolia Child and Development 2005 Survey (MICS-3) card or history results of 94 percent modified for recall bias to 93 percent based on 1st dose card or history coverage of 98 percent, 1st dose card only coverage of 80 percent and 3d dose card only coverage of 76 percent. GoC=R+ S+ D+
- 2005: Estimate based on coverage reported by national government. Estimate challenged by: D-
- 2006: Estimate based on coverage reported by national government. Estimate challenged by: D-
- 2007: Estimate based on coverage reported by national government. GoC=R+ S+ D+
- 2008: Estimate based on reported administrative data. Estimate challenged by: D-
- 2009: Estimate based on coverage reported by national government supported by survey. Survey evidence of 96 percent based on 1 survey(s). Mongolia Multiple Indicator Cluster Survey 2010 card or history results of 94 percent modified for recall bias to 96 percent based on 1st dose card or history coverage of 98 percent, 1st dose card only coverage of 84 percent and 3d dose card only coverage of 82 percent. Estimate challenged by: D-
- 2010: Estimate based on coverage reported by national government. Estimate challenged by: D-
- 2011: Estimate based on coverage reported by national government. GoC=R+ S+ 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. Estimate challenged by: D-

Mongolia - MCV1

MNG - MCV1



| | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Estimate | 98 | 99 | 97 | 99 | 98 | 97 | 94 | 97 | 98 | 99 | 97 | 98 |
| Estimate GoC | • | • | • | • | • | ••• | ••• | ••• | ••• | •• | • | • |
| Official | 98 | 99 | 97 | 99 | 98 | NA | 94 | 97 | 98 | 99 | 97 | 98 |
| Administrative | 98 | 99 | 97 | 99 | 98 | 97 | 96 | 99 | 86 | 99 | 97 | 92 |
| Survey | NA | 88 | NA | NA | NA | NA | 88 | 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.

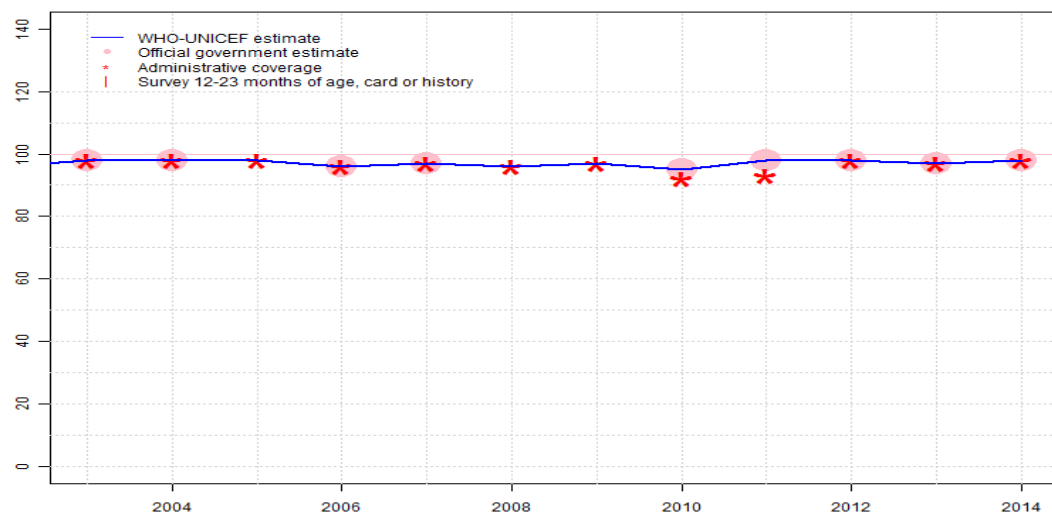
In all cases these estimates should be used with caution and should be assessed in light of the objective for which they are being used.

Description:

- 2003: Estimate based on coverage reported by national government. Estimate challenged by: S-
- 2004: Estimate based on coverage reported by national government. Mongolia Child and Development 2005 Survey (MICS-3) results ignored by working group. Surveys support reported data for all other vaccines. Difference between survey and reported is 11 percent. Estimate challenged by: S-
- 2005: Estimate based on coverage reported by national government. Estimate challenged by: D-S-
- 2006: Estimate based on coverage reported by national government. Estimate challenged by: D-S-
- 2007: Estimate based on coverage reported by national government. Estimate challenged by: D-
- 2008: Estimate based on reported administrative data. GoC=R+ S+ D+
- 2009: Estimate based on coverage reported by national government supported by survey. Survey evidence of 88 percent based on 1 survey(s). GoC=R+ S+ D+
- 2010: Estimate based on coverage reported by national government. GoC=R+ S+ D+
- 2011: Estimate based on coverage reported by national government. GoC=R+ S+ D+
- 2012: Estimate based on coverage reported by national government. GoC=R+ 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. Estimate challenged by: D-

Mongolia - MCV2

MNG - MCV2



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

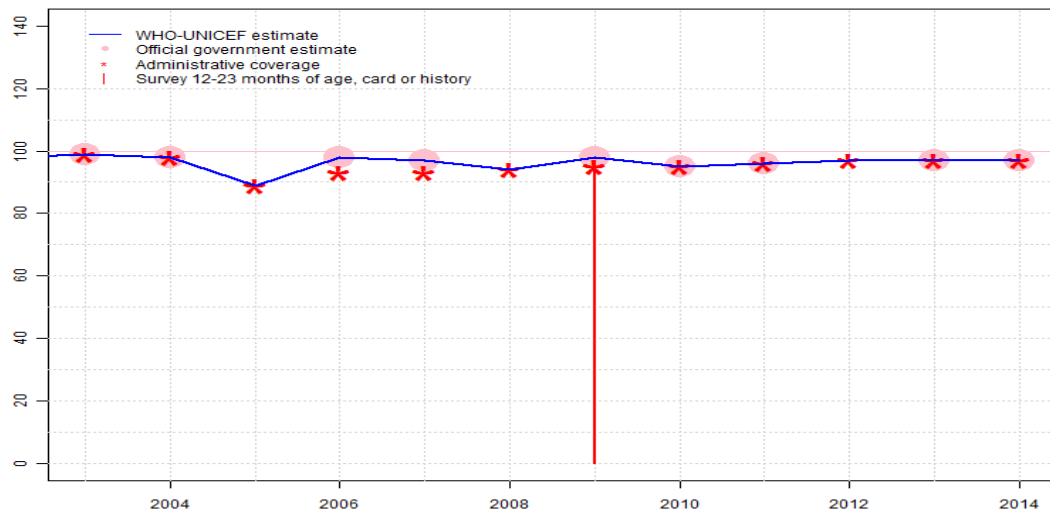
Description:

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

- 2003: Estimate based on coverage reported by national government. GoC=R+ D+
- 2004: Estimate based on coverage reported by national government. Estimate challenged by: D-
- 2005: Estimate based on reported administrative estimate. Estimate challenged by: D-
- 2006: Estimate based on coverage reported by national government. Estimate challenged by: D-
- 2007: Estimate based on coverage reported by national government. Estimate challenged by: D-
- 2008: Estimate based on reported administrative estimate. Estimate challenged by: D-
- 2009: Estimate based on reported administrative estimate. GoC=R+ D+
- 2010: Estimate based on coverage reported by national government. GoC=R+ D+
- 2011: Estimate based on coverage reported by national government. GoC=R+ D+
- 2012: Estimate based on coverage reported by national government. GoC=R+ 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+

Mongolia - HepBB

MNG - HepBB



| | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Estimate | 99 | 98 | 89 | 98 | 97 | 94 | 98 | 95 | 96 | 97 | 97 | 97 |
| Estimate GoC | •• | • | • | • | •• | •• | •• | •• | • | • | • | • |
| Official | 99 | 98 | NA | 98 | 97 | NA | 98 | 95 | 96 | NA | 97 | 97 |
| Administrative | 99 | 98 | 89 | 93 | 93 | 94 | 95 | 95 | 96 | 97 | 97 | 97 |
| Survey | NA | NA | NA | NA | NA | NA | 97 | 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.

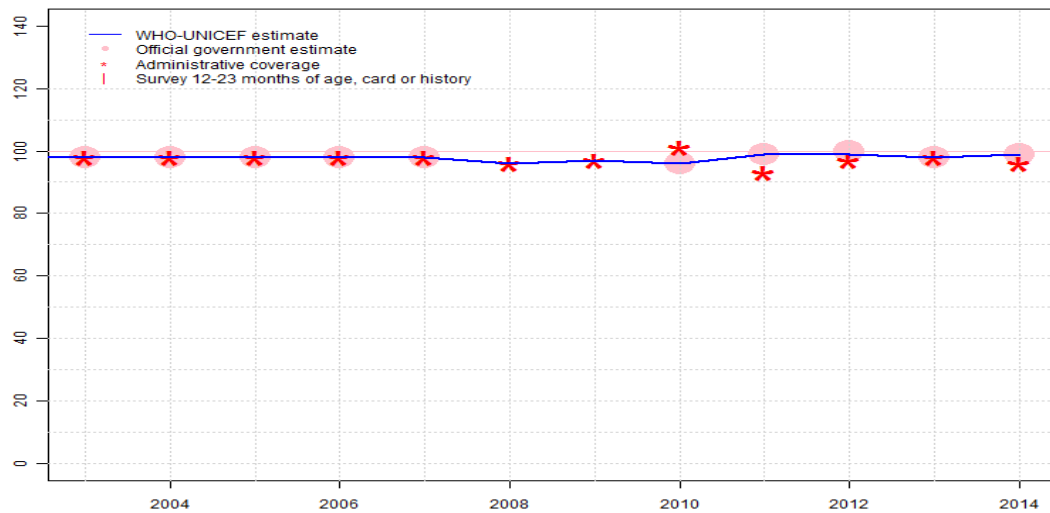
In all cases these estimates should be used with caution and should be assessed in light of the objective for which they are being used.

Description:

- 2003: Estimate based on coverage reported by national government. GoC=R+ D+
- 2004: Estimate based on coverage reported by national government. Estimate challenged by: D-
- 2005: Estimate based on reported administrative estimate. Estimate challenged by: D-
- 2006: Estimate based on coverage reported by national government. Estimate challenged by: D-
- 2007: Estimate based on coverage reported by national government. GoC=R+ D+
- 2008: Estimate based on reported administrative estimate. GoC=R+ D+
- 2009: Estimate based on coverage reported by national government. Survey results ignored. Sample size 0 less than 300. 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 challenged by: D-
- 2012: Estimate based on reported administrative estimate. 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. Estimate challenged by: D-

Mongolia - HepB3

MNG - HepB3



| | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Estimate | 98 | 98 | 98 | 98 | 98 | 96 | 97 | 96 | 99 | 99 | 98 | 99 |
| Estimate GoC | ●● | ●● | ● | ● | ● | ●● | ● | ● | ●● | ● | ● | ● |
| Official | 98 | 98 | 98 | 98 | 98 | NA | NA | 96 | 99 | 100 | 98 | 99 |
| Administrative | 98 | 98 | 98 | 98 | 98 | 96 | 97 | 101 | 93 | 97 | 98 | 96 |
| 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.

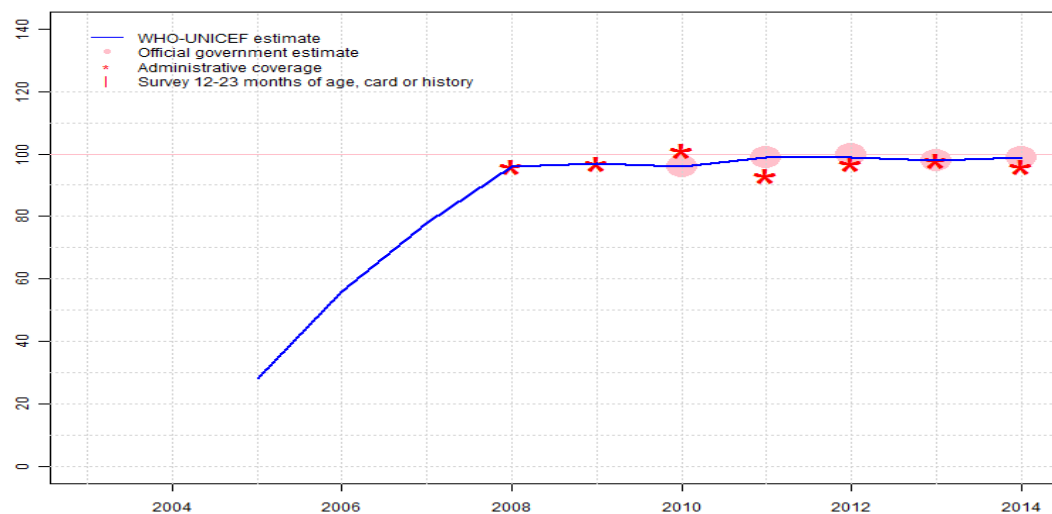
In all cases these estimates should be used with caution and should be assessed in light of the objective for which they are being used.

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 challenged by: D-
- 2006: Estimate based on coverage reported by national government. Estimate challenged by: D-
- 2007: Estimate based on coverage reported by national government. Estimate challenged by: D-
- 2008: Estimate based on reported administrative data. GoC=R+ D+
- 2009: Estimate based on reported administrative data. Estimate challenged by: D-
- 2010: Estimate based on coverage reported by national government. Estimate challenged by: D-
- 2011: Estimate based on coverage reported by national government. 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. Estimate challenged by: D-

Mongolia - Hib3

MNG - Hib3



| | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Estimate | NA | NA | 28 | 56 | 78 | 96 | 97 | 96 | 99 | 99 | 98 | 99 |
| Estimate GoC | NA | NA | ●● | ●● | ●● | ●● | ● | ● | ●● | ● | ● | ● |
| Official | NA | NA | NA | NA | NA | NA | NA | 96 | 99 | 100 | 98 | 99 |
| Administrative | NA | NA | NA | NA | NA | 96 | 97 | 101 | 93 | 97 | 98 | 96 |
| 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.

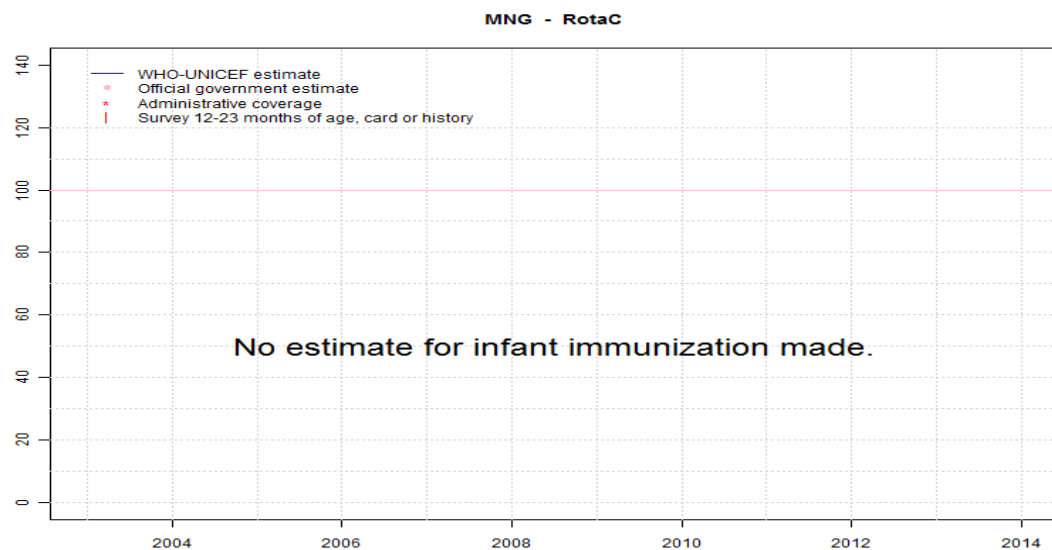
- Estimate is supported by reported data [R+], coverage recalculated with an independent denominator from the World Population Prospects: 2012 revision from the UN Population Division (D+), and at least one supporting survey within 2 years [S+]. While well supported, the estimate still carries a risk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

- 2005: Hib vaccine introduced in 2005 as a DTP-HepB-Hib combination vaccine. Ninety-nine percent coverage achieved in 28 percent of the country. GoC=D+
- 2006: Ninety-eight percent coverage achieved in 57 percent of the country. GoC=D+
- 2007: Ninety-nine percent coverage achieved in 78 percent of the country. GoC=D+
- 2008: DTP-HepB-Hib vaccine nationally available. GoC=R+ D+
- 2009: Estimate based on reported administrative data. Estimate challenged by: D-
- 2010: Estimate based on coverage reported by national government. Estimate challenged by: D-
- 2011: Estimate based on coverage reported by national government. 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. Estimate challenged by: D-

Mongolia - RotaC



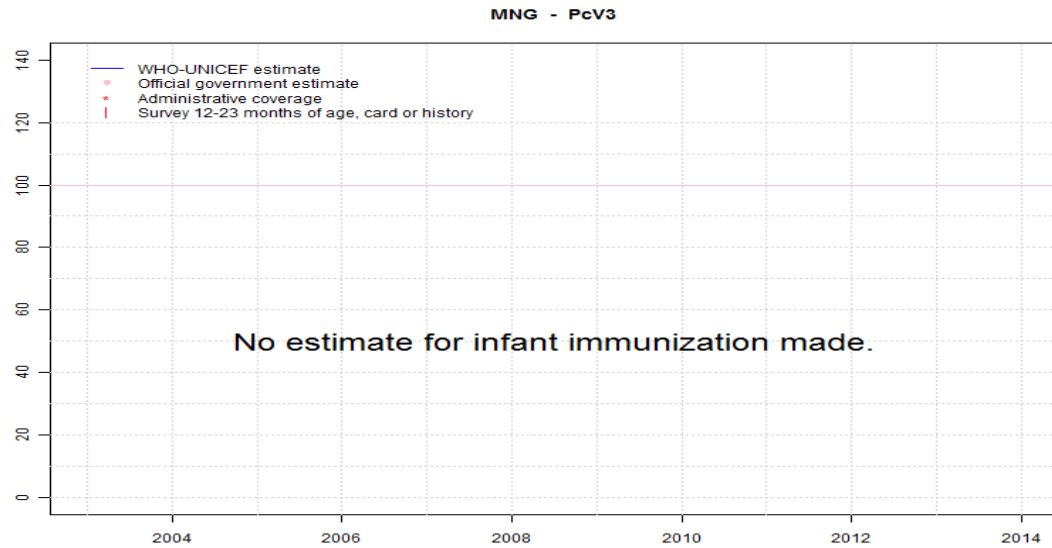
| | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Estimate | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA |
| Estimate GoC | NA | NA | NA | NA | 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.

Mongolia - PcV3



| | 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.

Mongolia - survey details

2009 Mongolia Multiple Indicator Cluster Survey 2010

| Vaccine | Confirmation method | Coverage | Age cohort | Sample | Cards seen |
|---------|---------------------|----------|------------|--------|------------|
| BCG | C or H <12 months | 98 | 12-23 m | - | 85 |
| BCG | Card | 83 | 12-23 m | - | 85 |
| BCG | Card or History | 98 | 12-23 m | 944 | 85 |
| BCG | History | 15 | 12-23 m | - | 85 |
| DTP1 | C or H <12 months | 96 | 12-23 m | - | 85 |
| DTP1 | Card | 81 | 12-23 m | - | 85 |
| DTP1 | Card or History | 96 | 12-23 m | 944 | 85 |
| DTP1 | History | 14 | 12-23 m | - | 85 |
| DTP3 | C or H <12 months | 92 | 12-23 m | - | 85 |
| DTP3 | Card | 79 | 12-23 m | - | 85 |
| DTP3 | Card or History | 92 | 12-23 m | 944 | 85 |
| DTP3 | History | 13 | 12-23 m | - | 85 |
| HepBB | C or H <12 months | 97 | 12-23 m | - | 85 |
| HepBB | Card | 83 | 12-23 m | - | 85 |
| HepBB | Card or History | 97 | 12-23 m | - | 85 |
| HepBB | History | 14 | 12-23 m | - | 85 |
| MCV1 | C or H <12 months | 87 | 12-23 m | - | 85 |
| MCV1 | Card | 75 | 12-23 m | - | 85 |
| MCV1 | Card or History | 88 | 12-23 m | 944 | 85 |
| MCV1 | History | 13 | 12-23 m | - | 85 |
| Pol1 | C or H <12 months | 98 | 12-23 m | - | 85 |
| Pol1 | Card | 84 | 12-23 m | - | 85 |
| Pol1 | Card or History | 98 | 12-23 m | 944 | 85 |
| Pol1 | History | 14 | 12-23 m | - | 85 |
| Pol3 | C or H <12 months | 93 | 12-23 m | - | 85 |
| Pol3 | Card | 82 | 12-23 m | - | 85 |
| Pol3 | Card or History | 94 | 12-23 m | 944 | 85 |
| Pol3 | History | 12 | 12-23 m | - | 85 |

2004 Mongolia Child and Development 2005 Survey (MICS-3)

| Vaccine | Confirmation method | Coverage | Age cohort | Sample | Cards seen |
|---------|---------------------|----------|------------|--------|------------|
| BCG | C or H <12 months | 98 | 12-23 m | 724 | 80 |
| BCG | Card | 80 | 12-23 m | 724 | 80 |
| BCG | Card or History | 98 | 12-23 m | 724 | 80 |

| | | | | | |
|------|-------------------|----|---------|-----|----|
| BCG | History | 18 | 12-23 m | 724 | 80 |
| DTP1 | C or H <12 months | 93 | 12-23 m | 724 | 80 |
| DTP1 | Card | 77 | 12-23 m | 724 | 80 |
| DTP1 | Card or History | 94 | 12-23 m | 724 | 80 |
| DTP1 | History | 17 | 12-23 m | 724 | 80 |
| DTP3 | C or H <12 months | 92 | 12-23 m | 724 | 80 |
| DTP3 | Card | 76 | 12-23 m | 724 | 80 |
| DTP3 | Card or History | 93 | 12-23 m | 724 | 80 |
| DTP3 | History | 17 | 12-23 m | 724 | 80 |
| MCV1 | C or H <12 months | 76 | 12-23 m | 724 | 80 |
| MCV1 | Card | 74 | 12-23 m | 724 | 80 |
| MCV1 | Card or History | 88 | 12-23 m | 724 | 80 |
| MCV1 | History | 14 | 12-23 m | 724 | 80 |
| Pol1 | C or H <12 months | 97 | 12-23 m | 724 | 80 |
| Pol1 | Card | 80 | 12-23 m | 724 | 80 |
| Pol1 | Card or History | 98 | 12-23 m | 724 | 80 |
| Pol1 | History | 18 | 12-23 m | 724 | 80 |
| Pol3 | C or H <12 months | 93 | 12-23 m | 724 | 80 |
| Pol3 | Card | 76 | 12-23 m | 724 | 80 |
| Pol3 | Card or History | 94 | 12-23 m | 724 | 80 |
| Pol3 | History | 18 | 12-23 m | 724 | 80 |

1999 Mongolia, Child and Development survey-2000 (MICS-2), 2001

| Vaccine | Confirmation method | Coverage | Age cohort | Sample | Cards seen |
|---------|---------------------|----------|------------|--------|------------|
| BCG | Card | 90 | 12-23 m | 1255 | 90 |
| BCG | Card or History | 96 | 12-23 m | 1255 | 90 |
| BCG | History | 6 | 12-23 m | 1255 | 90 |
| DTP1 | Card | 87 | 12-23 m | 1255 | 90 |
| DTP1 | Card or History | 92 | 12-23 m | 1255 | 90 |
| DTP1 | History | 5 | 12-23 m | 1255 | 90 |
| DTP3 | Card | 87 | 12-23 m | 1255 | 90 |
| DTP3 | Card or History | 89 | 12-23 m | 1255 | 90 |
| DTP3 | History | 2 | 12-23 m | 1255 | 90 |
| MCV1 | Card | 82 | 12-23 m | 1255 | 90 |
| MCV1 | Card or History | 86 | 12-23 m | 1255 | 90 |
| MCV1 | History | 3 | 12-23 m | 1255 | 90 |
| Pol1 | Card | 87 | 12-23 m | 1255 | 90 |

Mongolia - survey details

| | | | | | |
|------|-----------------|----|---------|------|----|
| Pol1 | Card or History | 92 | 12-23 m | 1255 | 90 |
| Pol1 | History | 5 | 12-23 m | 1255 | 90 |
| Pol3 | Card | 87 | 12-23 m | 1255 | 90 |

| | | | | | |
|------|-----------------|----|---------|------|----|
| Pol3 | Card or History | 89 | 12-23 m | 1255 | 90 |
| Pol3 | History | 2 | 12-23 m | 1255 | 90 |

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