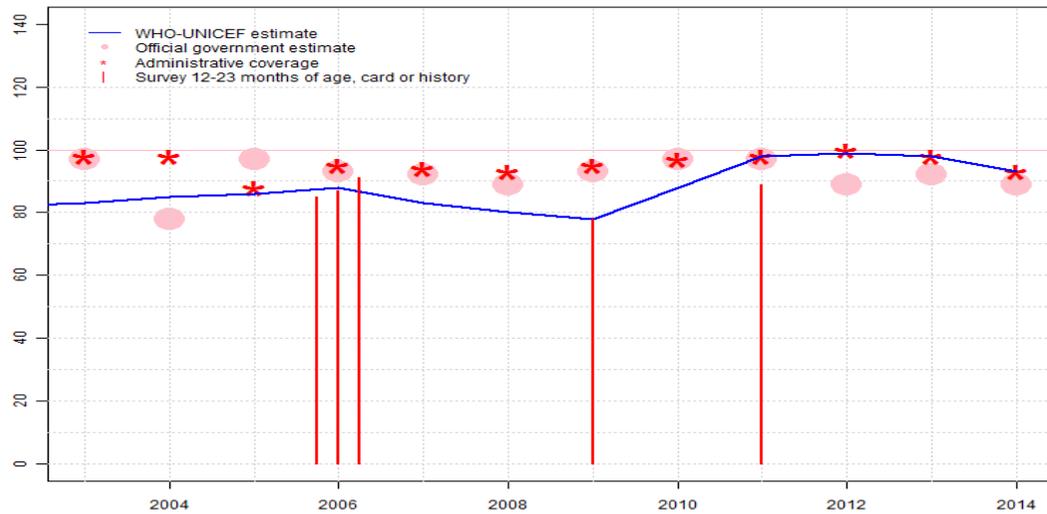


Indonesia - BCG

IDN - BCG



| | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Estimate | 83 | 85 | 86 | 88 | 83 | 80 | 78 | 88 | 98 | 99 | 98 | 93 |
| Estimate GoC | ● | ● | ● | ● | ● | ● | ● | ●● | ●●● | ●● | ●●● | ●● |
| Official | 97 | 78 | 97 | 93 | 92 | 89 | 93 | 97 | 97 | 89 | 92 | 89 |
| Administrative | 98 | 98 | 88 | 95 | 94 | 93 | 95 | 97 | 98 | 100 | 98 | 93 |
| Survey | NA | NA | NA | * | NA | NA | 78 | NA | 89 | NA | NA | NA |

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

- Estimate is supported by reported data [R+], coverage recalculated with an independent denominator from the World Population Prospects: 2012 revision from the UN Population Division (D+), and at least one supporting survey within 2 years [S+]. While well supported, the estimate still carries a risk of being wrong.
- Estimate is supported by at least one data source; [R+], [S+], or [D+]; and no data source, [R-], [D-], or [S-], challenges the estimate.
- There are no directly supporting data; or data from at least one source; [R-], [D-], [S-]; challenge the estimate.

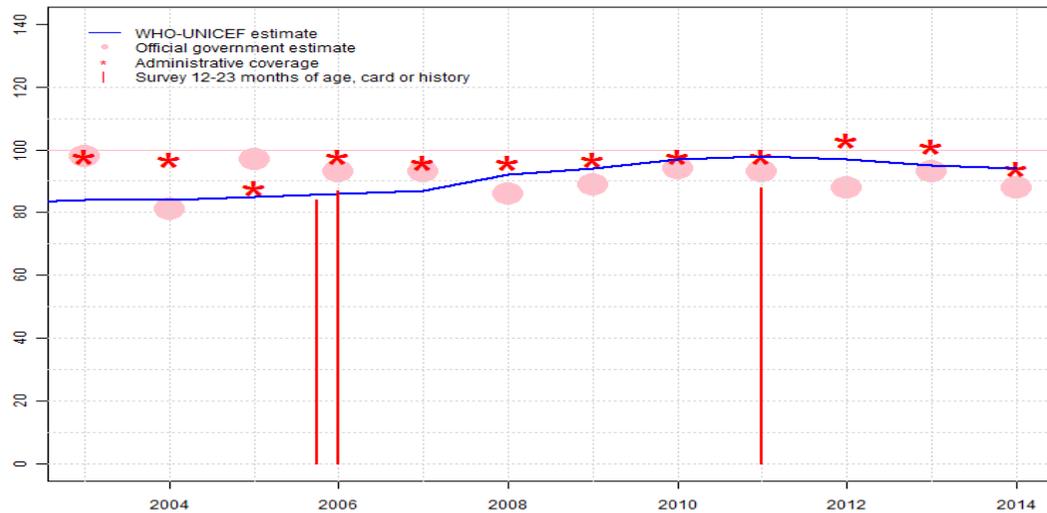
In all cases these estimates should be used with caution and should be assessed in light of the objective for which they are being used.

Description:

- 2003: Estimate based on interpolation between 2001 and 2006 levels. Fluctuating and inconsistent data suggest poor reporting. Reported data excluded. Unexplained increase from 77 percent to 97 percent with decrease 78 percent. Estimate challenged by: D-R-
- 2004: Estimate based on interpolation between 2001 and 2006 levels. Fluctuating and inconsistent data suggest poor reporting. Reported data excluded. Decline in reported coverage from 97 percent to 78 percent with increase to 97 percent. Estimate challenged by: D-R-
- 2005: Estimate based on interpolation between 2001 and 2006 levels. Fluctuating and inconsistent data suggest poor reporting. Estimate challenged by: R-
- 2006: Estimate is based on the averaged results of 3 surveys conducted in this year. Estimate challenged by: R-
- 2007: Reported data calibrated to 2006 and 2009 levels. Estimate challenged by: D-
- 2008: Reported data calibrated to 2006 and 2009 levels. Calibration applied to administrative coverage levels. Estimate challenged by: D-
- 2009: Survey evidence does not support reported data. Estimate based on survey results. Survey evidence of 78 percent based on 1 survey(s). Calibration applied to administrative coverage levels. Estimate challenged by: D-R-
- 2010: Reported data calibrated to 2009 and 2011 levels. Calibration applied to administrative coverage levels. GoC=S+ D+
- 2011: Estimate based on administrative data reported by national government supported by survey. Survey evidence of 89 percent based on 1 survey(s). Calibration applied to administrative coverage levels. GoC=R+ S+ D+
- 2012: Estimate based on reported administrative data. Calibration applied to administrative coverage levels. GoC=R+ D+
- 2013: Estimate based on reported administrative data. Calibration applied to administrative coverage levels. GoC=R+ S+ D+
- 2014: Estimate based on reported administrative data. Programme reports six month stock-out during first half of year. Calibration applied to administrative coverage levels. GoC=R+ D+

Indonesia - DTP1

IDN - DTP1



| | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Estimate | 84 | 84 | 85 | 86 | 87 | 92 | 94 | 97 | 98 | 97 | 95 | 94 |
| Estimate GoC | ● | ● | ● | ● | ● | ●● | ●● | ●● | ●●● | ●● | ●● | ●● |
| Official | 98 | 81 | 97 | 93 | 93 | 86 | 89 | 94 | 93 | 88 | 93 | 88 |
| Administrative | 98 | 97 | 88 | 98 | 96 | 96 | 97 | 98 | 98 | 103 | 101 | 94 |
| Survey | NA | NA | NA | * | NA | NA | NA | NA | 88 | NA | NA | NA |

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

- Estimate is supported by reported data [R+], coverage recalculated with an independent denominator from the World Population Prospects: 2012 revision from the UN Population Division (D+), and at least one supporting survey within 2 years [S+]. While well supported, the estimate still carries a risk of being wrong.
- Estimate is supported by at least one data source; [R+], [S+], or [D+]; and no data source, [R-], [D-], or [S-], challenges the estimate.
- There are no directly supporting data; or data from at least one source; [R-], [D-], [S-]; challenge the estimate.

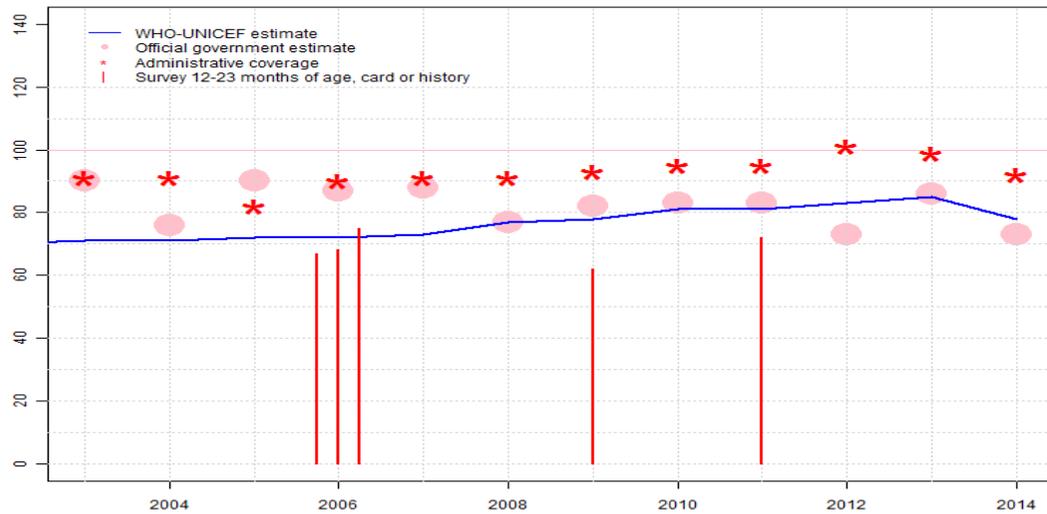
In all cases these estimates should be used with caution and should be assessed in light of the objective for which they are being used.

Description:

- 2003: Estimate based on interpolation between 2001 and 2006 levels. Fluctuating and inconsistent data suggest poor reporting. Reported data excluded. Unexplained increase from 81 percent to 98 percent with decrease 81 percent. Estimate challenged by: D-R-
- 2004: Estimate based on interpolation between 2001 and 2006 levels. Fluctuating and inconsistent data suggest poor reporting. Reported data excluded. Decline in reported coverage from 98 percent to 81 percent with increase to 97 percent. Estimate challenged by: D-R-
- 2005: Estimate based on interpolation between 2001 and 2006 levels. Fluctuating and inconsistent data suggest poor reporting. Estimate challenged by: R-
- 2006: Estimate is based on the averaged results of two surveys conducted in this year. Estimate challenged by: D-R-
- 2007: Reported data calibrated to 2006 and 2011 levels. Estimate challenged by: D-
- 2008: Reported data calibrated to 2006 and 2011 levels. Calibration applied to administrative coverage levels. GoC=S+ D+
- 2009: Reported data calibrated to 2006 and 2011 levels. Calibration applied to administrative coverage levels. GoC=S+ D+
- 2010: Reported data calibrated to 2006 and 2011 levels. Calibration applied to administrative coverage levels. GoC=S+ D+
- 2011: Estimate based on administrative data reported by national government supported by survey. Survey evidence of 88 percent based on 1 survey(s). Calibration applied to administrative coverage levels. GoC=R+ S+ D+
- 2012: Estimate based on interpolation between data reported by national government. Reported data excluded. 103 percent greater than 100 percent. Calibration applied to administrative coverage levels. Estimate of 97 percent changed from previous revision value of 98 percent. GoC=S+ D+
- 2013: Estimate based on interpolation between data reported by national government. Reported data excluded. 101 percent greater than 100 percent. Calibration applied to administrative coverage levels. Estimate of 95 percent changed from previous revision value of 98 percent. GoC=S+ D+
- 2014: Estimate based on reported administrative data. Programme reports four month stock-out during first half of year. Calibration applied to administrative coverage levels. GoC=R+ D+

Indonesia - DTP3

IDN - DTP3



| | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Estimate | 71 | 71 | 72 | 72 | 73 | 77 | 78 | 81 | 81 | 83 | 85 | 78 |
| Estimate GoC | • | • | • | • | • | • | • | • | • | • | • | • |
| Official | 90 | 76 | 90 | 87 | 88 | 77 | 82 | 83 | 83 | 73 | 86 | 73 |
| Administrative | 91 | 91 | 82 | 90 | 91 | 91 | 93 | 95 | 95 | 101 | 99 | 92 |
| Survey | NA | NA | NA | * | NA | NA | 62 | NA | 72 | NA | NA | NA |

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

- Estimate is supported by reported data [R+], coverage recalculated with an independent denominator from the World Population Prospects: 2012 revision from the UN Population Division (D+), and at least one supporting survey within 2 years [S+]. While well supported, the estimate still carries a risk of being wrong.
- Estimate is supported by at least one data source; [R+], [S+], or [D+]; and no data source, [R-], [D-], or [S-], challenges the estimate.
- There are no directly supporting data; or data from at least one source; [R-], [D-], [S-]; challenge the estimate.

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

Description:

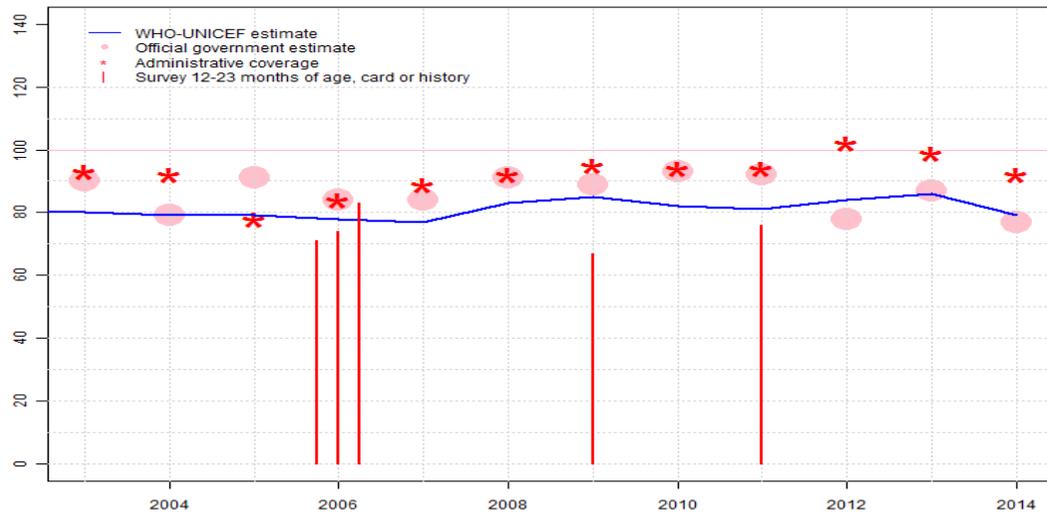
- 2003: Estimate based on interpolation between 2002 and 2006 levels. Fluctuating and inconsistent data suggest poor reporting. Reported data excluded. Unexplained increase from 75 percent to 90 percent with decrease 76 percent. Estimate challenged by: D-R-
- 2004: Estimate based on interpolation between 2002 and 2006 levels. Fluctuating and inconsistent data suggest poor reporting. Reported data excluded. Decline in reported coverage from 90 percent to 76 percent with increase to 90 percent. Estimate challenged by: D-R-
- 2005: Estimate based on interpolation between 2002 and 2006 levels. Fluctuating and inconsistent data suggest poor reporting. Estimate challenged by: D-R-
- 2006: Estimate is based on the averaged results of 3 surveys conducted in this year. Indonesia Demographic and Health Survey 2007 card or history results of 67 percent modified for recall bias to 72 percent based on 1st dose card or history coverage of 84 percent, 1st dose card only coverage of 36 percent and 3d dose card only coverage of 31 percent. Estimate challenged by: D-R-
- 2007: Reported data calibrated to 2006 and 2011 levels. Estimate challenged by: D-S-
- 2008: Reported data calibrated to 2006 and 2011 levels. Calibration applied to administrative coverage levels. Estimate challenged by: D-S-
- 2009: Reported data calibrated to 2006 and 2011 levels. Indonesia Basic Health Survey (RISKESDAS) 2010 results ignored by working group. Insufficient evidence to correct for recall bias. Calibration applied to administrative coverage levels. Estimate challenged by: D-S-
- 2010: Reported data calibrated to 2006 and 2011 levels. Calibration applied to administrative coverage levels. Estimate challenged by: D-S-
- 2011: Survey evidence does not support reported data. Estimate based on survey results. Survey evidence of 81 percent based on 1 survey(s). Indonesia Demographic and Health Survey 2012 card or history results of 72 percent modified for recall bias to 81 percent based on 1st dose card or history coverage of 88 percent, 1st dose card only coverage of 40 percent and 3d dose card only coverage of 37 percent. Calibration applied to administrative coverage levels. Estimate challenged by: D-R-S-
- 2012: Reported data calibrated to 2011 levels. Reported data excluded. 101 percent greater than 100 percent. Calibration applied to administrative coverage levels. Estimate challenged by: D-
- 2013: Reported data calibrated to 2011 levels. Calibration applied to administrative coverage levels. Estimate challenged by: D-
- 2014: Reported data calibrated to 2011 levels. Programme reports four month stock-out during first half of year. Calibration applied to administrative

Indonesia - DTP3

coverage levels. Estimate challenged by: D-

Indonesia - Pol3

IDN - Pol3



| | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Estimate | 80 | 79 | 79 | 78 | 77 | 83 | 85 | 82 | 81 | 84 | 86 | 79 |
| Estimate GoC | • | • | • | • | • | • | • | • | • | • | • | • |
| Official | 90 | 79 | 91 | 84 | 84 | 91 | 89 | 93 | 92 | 78 | 87 | 77 |
| Administrative | 93 | 92 | 78 | 84 | 89 | 92 | 95 | 94 | 94 | 102 | 99 | 92 |
| Survey | NA | NA | NA | * | NA | NA | 67 | NA | 76 | NA | NA | NA |

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

- Estimate is supported by reported data [R+], coverage recalculated with an independent denominator from the World Population Prospects: 2012 revision from the UN Population Division (D+), and at least one supporting survey within 2 years [S+]. While well supported, the estimate still carries a risk of being wrong.
- Estimate is supported by at least one data source; [R+], [S+], or [D+]; and no data source, [R-], [D-], or [S-], challenges the estimate.
- There are no directly supporting data; or data from at least one source; [R-], [D-], [S-]; challenge the estimate.

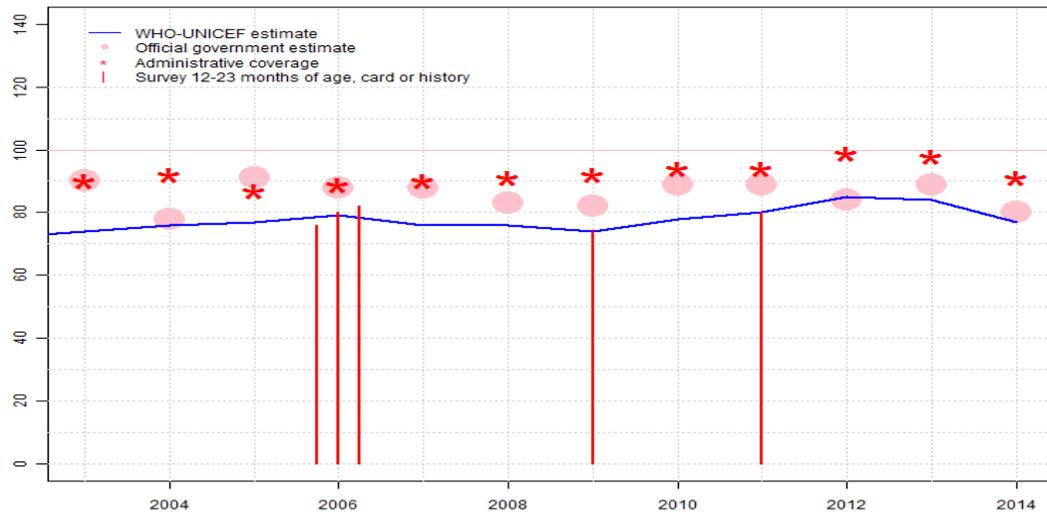
In all cases these estimates should be used with caution and should be assessed in light of the objective for which they are being used.

Description:

- 2003: Estimate based on interpolation between 2002 and 2006 levels. Fluctuating and inconsistent data suggest poor reporting. Reported data excluded. Unexplained increase from 74 percent to 90 percent with decrease 79 percent. Estimate challenged by: D-R-
- 2004: Estimate based on interpolation between 2002 and 2006 levels. Fluctuating and inconsistent data suggest poor reporting. Reported data excluded. Decline in reported coverage from 90 percent to 79 percent with increase to 91 percent. Estimate challenged by: D-R-
- 2005: Estimate based on interpolation between 2002 and 2006 levels. Fluctuating and inconsistent data suggest poor reporting. Estimate challenged by: R-
- 2006: Estimate is based on the averaged results of 3 surveys conducted in this year. Indonesia Demographic and Health Survey 2007 card or history results of 74 percent modified for recall bias to 79 percent based on 1st dose card or history coverage of 89 percent, 1st dose card only coverage of 36 percent and 3d dose card only coverage of 32 percent. Estimate challenged by: R-
- 2007: Reported data calibrated to 2006 and 2011 levels. Estimate challenged by: D-S-
- 2008: Reported data calibrated to 2006 and 2011 levels. Calibration applied to administrative coverage levels. Estimate challenged by: D-S-
- 2009: Reported data calibrated to 2006 and 2011 levels. Indonesia Basic Health Survey (RISKESDAS) 2010 results ignored by working group. Insufficient evidence to correct for recall bias. Calibration applied to administrative coverage levels. Estimate challenged by: D-S-
- 2010: Reported data calibrated to 2006 and 2011 levels. Calibration applied to administrative coverage levels. Estimate challenged by: D-S-
- 2011: Based on DTP survey results adjusted for recall bias. Indonesia Demographic and Health Survey 2012 results ignored by working group. Survey result likely includes polio doses administered during supplementary immunization activities. Indonesia Demographic and Health Survey 2012 card or history results of 76 percent modified for recall bias to 84 percent based on 1st dose card or history coverage of 91 percent, 1st dose card only coverage of 41 percent and 3d dose card only coverage of 38 percent. Calibration applied to administrative coverage levels. Estimate challenged by: D-R-S-
- 2012: Reported data calibrated to 2011 levels. Reported data excluded. 102 percent greater than 100 percent. Calibration applied to administrative coverage levels. Estimate challenged by: D-S-
- 2013: Reported data calibrated to 2011 levels. Calibration applied to administrative coverage levels. Estimate challenged by: D-S-
- 2014: Reported data calibrated to 2011 levels. Programme reports six month stock-out during first half of year. Calibration applied to administrative coverage levels. Estimate challenged by: D-

Indonesia - MCV1

IDN - MCV1



| | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Estimate | 74 | 76 | 77 | 79 | 76 | 76 | 74 | 78 | 80 | 85 | 84 | 77 |
| Estimate GoC | • | • | • | • | • | • | • | • | • | • | • | • |
| Official | 90 | 78 | 91 | 88 | 88 | 83 | 82 | 89 | 89 | 84 | 89 | 80 |
| Administrative | 90 | 92 | 87 | 89 | 90 | 91 | 92 | 94 | 94 | 99 | 98 | 91 |
| Survey | NA | NA | NA | * | NA | NA | 74 | NA | 80 | NA | NA | NA |

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

- Estimate is supported by reported data [R+], coverage recalculated with an independent denominator from the World Population Prospects: 2012 revision from the UN Population Division (D+), and at least one supporting survey within 2 years [S+]. While well supported, the estimate still carries a risk of being wrong.
- Estimate is supported by at least one data source; [R+], [S+], or [D+]; and no data source, [R-], [D-], or [S-], challenges the estimate.
- There are no directly supporting data; or data from at least one source; [R-], [D-], [S-]; challenge the estimate.

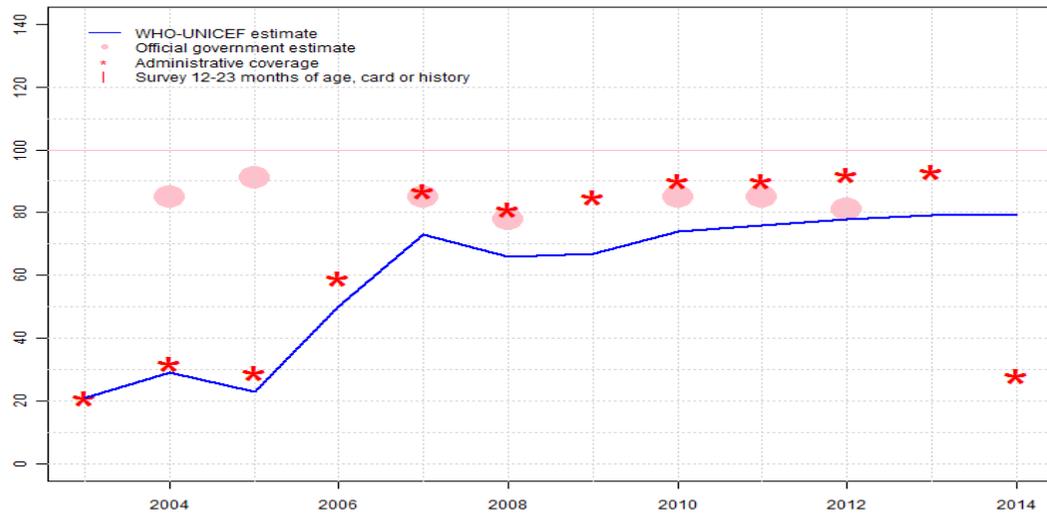
In all cases these estimates should be used with caution and should be assessed in light of the objective for which they are being used.

Description:

- 2003: Estimate based on interpolation between 2002 and 2006 levels. Fluctuating and inconsistent data suggest poor reporting. Reported data excluded. Unexplained increase from 44 percent to 90 percent with decrease 78 percent. Estimate challenged by: D-R-
- 2004: Estimate based on interpolation between 2002 and 2006 levels. Fluctuating and inconsistent data suggest poor reporting. Reported data excluded. Decline in reported coverage from 90 percent to 78 percent with increase to 91 percent. Estimate challenged by: D-R-
- 2005: Estimate based on interpolation between 2002 and 2006 levels. Fluctuating and inconsistent data suggest poor reporting. Estimate challenged by: D-R-
- 2006: Estimate is based on the averaged results of 3 surveys conducted in this year. Estimate challenged by: D-R-
- 2007: Reported data calibrated to 2006 and 2009 levels. Estimate challenged by: D-
- 2008: Reported data calibrated to 2006 and 2009 levels. Calibration applied to administrative coverage levels. Estimate challenged by: D-
- 2009: Survey evidence does not support reported data. Estimate based on survey results. Survey evidence of 74 percent based on 1 survey(s). Calibration applied to administrative coverage levels. Estimate challenged by: D-R-
- 2010: Reported data calibrated to 2009 and 2011 levels. Calibration applied to administrative coverage levels. Estimate challenged by: D-
- 2011: Survey evidence does not support reported data. Estimate based on survey results. Survey evidence of 80 percent based on 1 survey(s). Calibration applied to administrative coverage levels. Estimate challenged by: D-R-
- 2012: Reported data calibrated to 2011 levels. Calibration applied to administrative coverage levels. Estimate challenged by: D-
- 2013: Reported data calibrated to 2011 levels. Calibration applied to administrative coverage levels. Estimate challenged by: D-
- 2014: Reported data calibrated to 2011 levels. Programme reports two month stock-out during first half of year. Calibration applied to administrative coverage levels. Estimate challenged by: D-

Indonesia - MCV2

IDN - MCV2



| | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Estimate | 21 | 29 | 23 | 50 | 73 | 66 | 67 | 74 | 76 | 78 | 79 | 79 |
| Estimate GoC | •• | •• | •• | •• | • | • | • | • | • | • | • | • |
| Official | NA | 85 | 91 | NA | 85 | 78 | NA | 85 | 85 | 81 | NA | NA |
| Administrative | 21 | 32 | 29 | 59 | 87 | 81 | 85 | 90 | 90 | 92 | 93 | 28 |
| Survey | 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.

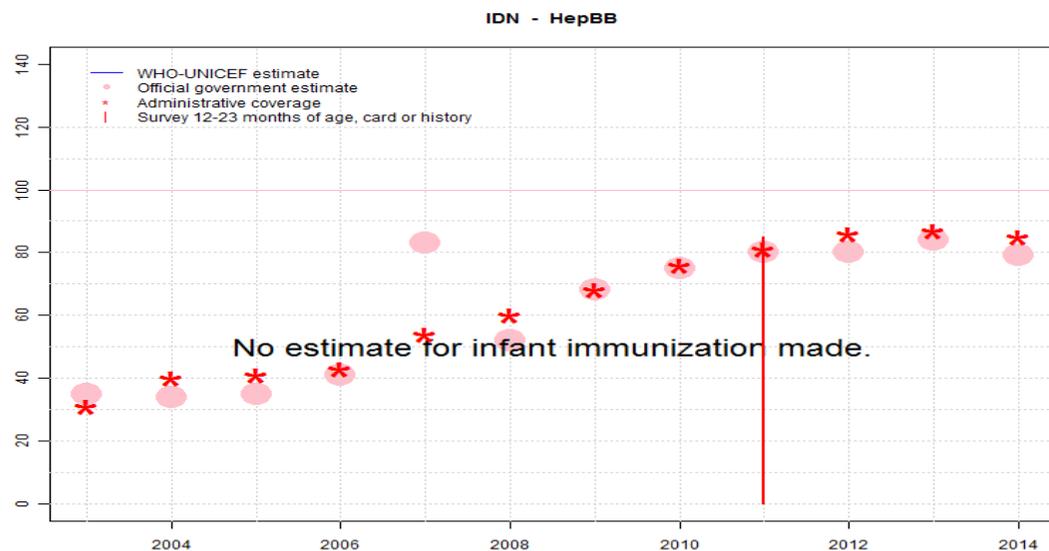
- Estimate is supported by reported data [R+], coverage recalculated with an independent denominator from the World Population Prospects: 2012 revision from the UN Population Division (D+), and at least one supporting survey within 2 years [S+]. While well supported, the estimate still carries a risk 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 is based on reported administrative data. . GoC=R+ D+
- 2004: Reported data calibrated to 2003 and 2007 levels. . GoC=D+
- 2005: Reported data calibrated to 2003 and 2007 levels. . GoC=D+
- 2006: Reported data calibrated to 2003 and 2007 levels. . GoC=D+
- 2007: Estimate follows reported data calibrated based on MCV adjustment factor. Estimate challenged by: R-
- 2008: Estimate follows reported data calibrated based on MCV adjustment factor. Calibration applied to administrative coverage levels. Estimate challenged by: D-R-
- 2009: Estimate follows reported data calibrated based on MCV adjustment factor. Calibration applied to administrative coverage levels. Estimate challenged by: D-R-
- 2010: Estimate follows reported data calibrated based on MCV adjustment factor. Calibration applied to administrative coverage levels. Estimate challenged by: D-R-
- 2011: Estimate follows reported data calibrated based on MCV adjustment factor. Calibration applied to administrative coverage levels. Estimate challenged by: D-R-
- 2012: Estimate follows reported data calibrated based on MCV adjustment factor. Calibration applied to administrative coverage levels. Estimate challenged by: D-R-
- 2013: Estimate follows reported data calibrated based on MCV adjustment factor. Calibration applied to administrative coverage levels. Estimate challenged by: D-R-
- 2014: Reported data calibrated to 2013 levels. Reported data excluded. Decline in administrative coverage reflects change in reporting for children under 3 years. School-based administration to children aged 6-7 years was 92 percent during 2014, similar to levels reported in prior years for this age group. Reported data excluded. Change in reported coverage from 93 level to 28 percent. Calibration applied to administrative coverage levels. Estimate challenged by: D-



Although hepatitis birth dose is in the national immunization schedule, estimates for hepatitis birth dose are not provided due to insufficient information on doses administered within 24 hours

| | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Estimate | NA |
| Estimate GoC | NA |
| Official | 35 | 34 | 35 | 41 | 83 | 52 | 68 | 75 | 80 | 80 | 84 | 79 |
| Administrative | 31 | 40 | 41 | 43 | 54 | 60 | 68 | 76 | 81 | 86 | 87 | 85 |
| Survey | NA | 85 | NA | NA | NA |

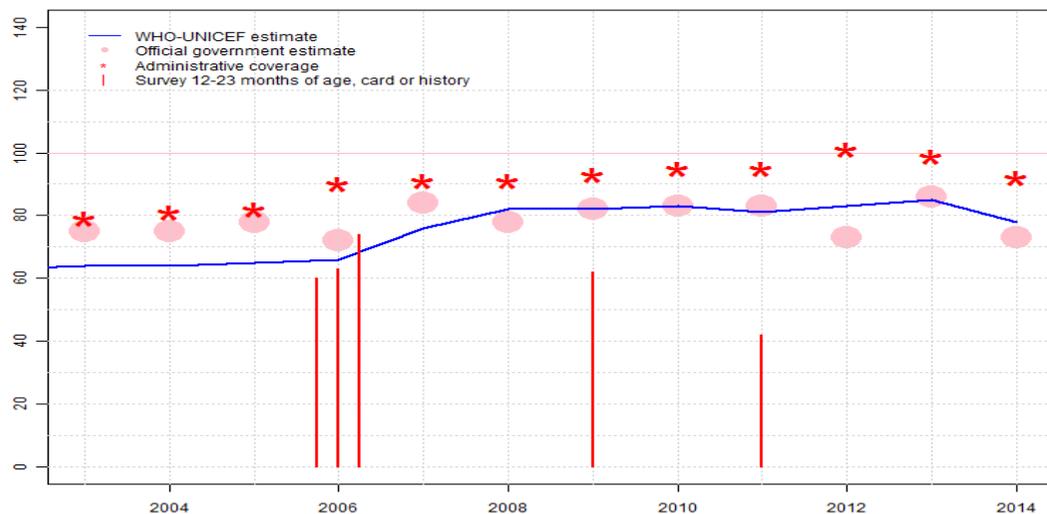
The WHO and UNICEF estimates of national immunization coverage (wuenic) are based on data and information that are of varying, and, in some instances, unknown quality. Beginning with the 2011 revision we describe the grade of confidence (GoC) we have in these estimates. As there is no underlying probability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

Indonesia - HepB3

IDN - HepB3



| | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Estimate | 64 | 64 | 65 | 66 | 76 | 82 | 82 | 83 | 81 | 83 | 85 | 78 |
| Estimate GoC | • | • | • | • | • | • | • | • | • | • | • | • |
| Official | 75 | 75 | 78 | 72 | 84 | 78 | 82 | 83 | 83 | 73 | 86 | 73 |
| Administrative | 79 | 81 | 82 | 90 | 91 | 91 | 93 | 95 | 95 | 101 | 99 | 92 |
| Survey | NA | NA | NA | * | NA | NA | 62 | NA | 42 | NA | NA | NA |

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

- Estimate is supported by reported data [R+], coverage recalculated with an independent denominator from the World Population Prospects: 2012 revision from the UN Population Division (D+), and at least one supporting survey within 2 years [S+]. While well supported, the estimate still carries a risk of being wrong.
- Estimate is supported by at least one data source; [R+], [S+], or [D+]; and no data source, [R-], [D-], or [S-], challenges the estimate.
- There are no directly supporting data; or data from at least one source; [R-], [D-], [S-]; challenge the estimate.

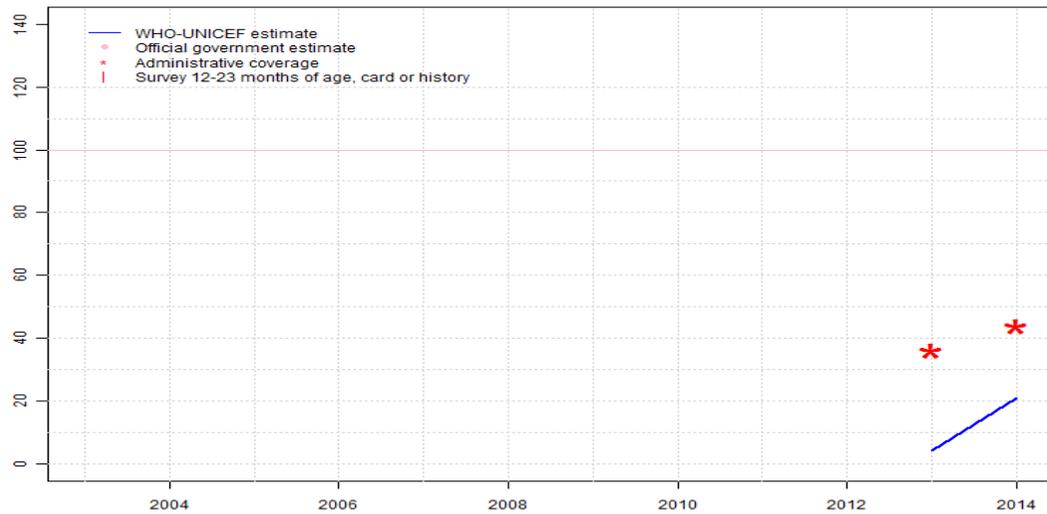
In all cases these estimates should be used with caution and should be assessed in light of the objective for which they are being used.

Description:

- 2003: Estimate based on interpolation between 2001 and 2006 levels. Fluctuating and inconsistent data suggest poor reporting. Estimate challenged by: D-R-
- 2004: Estimate based on interpolation between 2001 and 2006 levels. Fluctuating and inconsistent data suggest poor reporting. Estimate challenged by: D-R-
- 2005: Estimate based on interpolation between 2001 and 2006 levels. Fluctuating and inconsistent data suggest poor reporting. Estimate challenged by: D-R-
- 2006: Estimate is based on the averaged results of 3 surveys conducted in this year. Estimate challenged by: D-R-
- 2007: Reported data calibrated to 2006 and 2011 levels. Estimate challenged by: D-S-
- 2008: Reported data calibrated to 2006 and 2011 levels. Calibration applied to administrative coverage levels. Estimate challenged by: D-S-
- 2009: Reported data calibrated to 2006 and 2011 levels. Indonesia Basic Health Survey (RISKESDAS) 2010 results ignored by working group. Insufficient evidence to correct for recall bias. Calibration applied to administrative coverage levels. Estimate challenged by: D-S-
- 2010: Reported data calibrated to 2006 and 2011 levels. Calibration applied to administrative coverage levels. Estimate challenged by: D-S-
- 2011: Based on DTP survey results adjusted for recall bias. Indonesia Demographic and Health Survey 2012 results ignored by working group. Survey results for HepB3 inconsistent with DTP3 while vaccine presentation is DTP-HepB tetraivalent vaccine. Indonesia Demographic and Health Survey 2012 card or history results of 42 percent modified for recall bias to 58 percent based on 1st dose card or history coverage of 74 percent, 1st dose card only coverage of 37 percent and 3d dose card only coverage of 29 percent. Calibration applied to administrative coverage levels. Estimate challenged by: D-R-S-
- 2012: Reported data calibrated to 2011 levels. Reported data excluded. 101 percent greater than 100 percent. Calibration applied to administrative coverage levels. Estimate challenged by: D-S-
- 2013: Reported data calibrated to 2011 levels. Calibration applied to administrative coverage levels. Estimate challenged by: D-S-
- 2014: Reported data calibrated to 2011 levels. Programme reports four month stock-out during first half of year. Calibration applied to administrative coverage levels. Estimate challenged by: D-

Indonesia - Hib3

IDN - Hib3



| | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Estimate | NA | 4 | 21 |
| Estimate GoC | NA | ● | ● |
| Official | NA |
| Administrative | NA | 36 | 44 |
| Survey | 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.

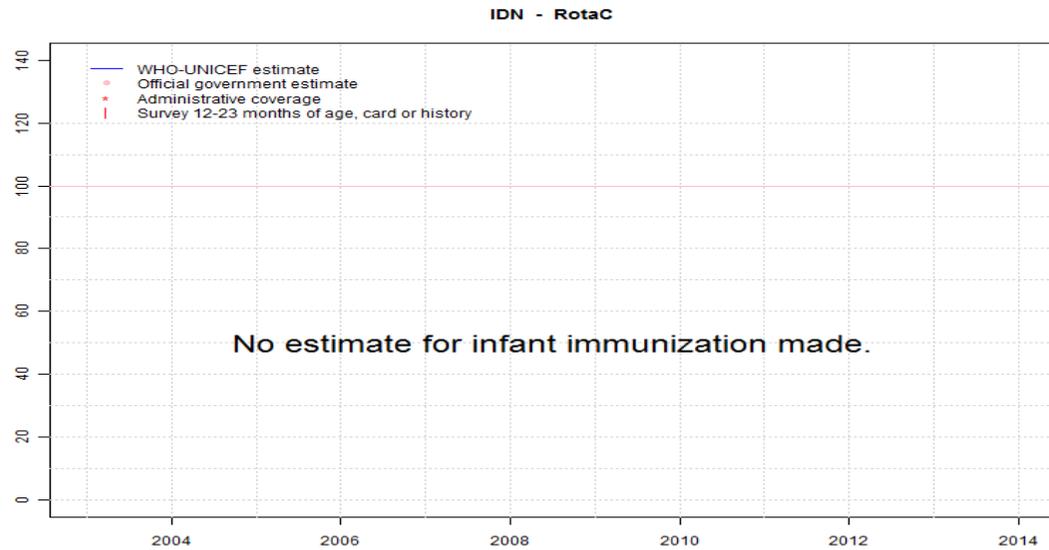
- Estimate is supported by reported data [R+], coverage recalculated with an independent denominator from the World Population Prospects: 2012 revision from the UN Population Division (D+), and at least one supporting survey within 2 years [S+]. While well supported, the estimate still carries a risk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

- 2013: DTP-HepB-Hib pentavalent combination vaccine introduced in part of the country in August 2013. Thirty-six percent coverage achieved in 24 percent of national target population. Estimate challenged by: R-
- 2014: Reported data based on national target population. Estimate is based on calibrated DTP3 level. Estimate challenged by: D-R-

Indonesia - RotaC



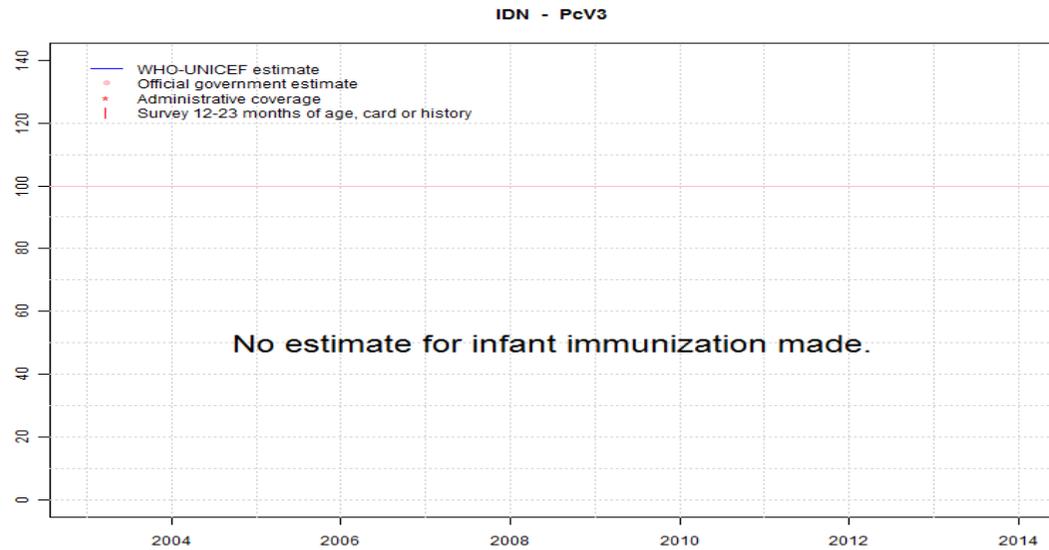
| | 2003 | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 |
|----------------|------|------|------|------|------|------|------|------|------|------|------|------|
| Estimate | NA |
| Estimate GoC | NA |
| Official | NA |
| Administrative | NA |
| Survey | NA |

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.

Indonesia - PcV3



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

Indonesia - survey details

2011 Indonesia Demographic and Health Survey 2012

| Vaccine | Confirmation method | Coverage | Age cohort | Sample | Cards seen |
|---------|---------------------|----------|------------|--------|------------|
| BCG | C or H <12 months | 89 | 12-23 m | 3333 | 41 |
| BCG | Card | 40 | 12-23 m | 1370 | 41 |
| BCG | Card or History | 89 | 12-23 m | 3333 | 41 |
| BCG | History | 50 | 12-23 m | 1963 | 41 |
| DTP1 | C or H <12 months | 88 | 12-23 m | 3333 | 41 |
| DTP1 | Card | 40 | 12-23 m | 1370 | 41 |
| DTP1 | Card or History | 88 | 12-23 m | 3333 | 41 |
| DTP1 | History | 48 | 12-23 m | 1963 | 41 |
| DTP3 | C or H <12 months | 71 | 12-23 m | 3333 | 41 |
| DTP3 | Card | 37 | 12-23 m | 1370 | 41 |
| DTP3 | Card or History | 72 | 12-23 m | 3333 | 41 |
| DTP3 | History | 35 | 12-23 m | 1963 | 41 |
| HepB1 | C or H <12 months | 74 | 12-23 m | 3333 | 41 |
| HepB1 | Card | 37 | 12-23 m | 1370 | 41 |
| HepB1 | Card or History | 74 | 12-23 m | 3333 | 41 |
| HepB1 | History | 38 | 12-23 m | 1963 | 41 |
| HepB3 | C or H <12 months | 41 | 12-23 m | 3333 | 41 |
| HepB3 | Card | 29 | 12-23 m | 1370 | 41 |
| HepB3 | Card or History | 42 | 12-23 m | 3333 | 41 |
| HepB3 | History | 14 | 12-23 m | 1963 | 41 |
| HepBB | C or H <12 months | 85 | 12-23 m | 3333 | 41 |
| HepBB | Card | 40 | 12-23 m | 1370 | 41 |
| HepBB | Card or History | 85 | 12-23 m | 3333 | 41 |
| HepBB | History | 46 | 12-23 m | 1963 | 41 |
| MCV1 | C or H <12 months | 74 | 12-23 m | 3333 | 41 |
| MCV1 | Card | 36 | 12-23 m | 1370 | 41 |
| MCV1 | Card or History | 80 | 12-23 m | 3333 | 41 |
| MCV1 | History | 44 | 12-23 m | 1963 | 41 |
| Pol1 | C or H <12 months | 91 | 12-23 m | 3333 | 41 |
| Pol1 | Card | 41 | 12-23 m | 1370 | 41 |
| Pol1 | Card or History | 91 | 12-23 m | 3333 | 41 |
| Pol1 | History | 50 | 12-23 m | 1963 | 41 |
| Pol3 | C or H <12 months | 75 | 12-23 m | 3333 | 41 |
| Pol3 | Card | 38 | 12-23 m | 1370 | 41 |
| Pol3 | Card or History | 76 | 12-23 m | 3333 | 41 |
| Pol3 | History | 38 | 12-23 m | 1963 | 41 |

2009 Riset Kesehatan Dasar (RISKESDAS) 2010

| Vaccine | Confirmation method | Coverage | Age cohort | Sample | Cards seen |
|---------|---------------------|----------|------------|--------|------------|
| BCG | Card or History | 78 | 12-23 m | 4505 | - |
| DTP3 | Card or History | 62 | 12-23 m | 4505 | - |
| HepB3 | Card or History | 62 | 12-23 m | 4505 | - |
| MCV1 | Card or History | 74 | 12-23 m | 4505 | - |
| Pol3 | Card or History | 67 | 12-23 m | 4505 | - |

2006 Indonesia Demographic and Health Survey 2007

| Vaccine | Confirmation method | Coverage | Age cohort | Sample | Cards seen |
|---------|---------------------|----------|------------|--------|------------|
| BCG | C or H <12 months | 84 | 12-23 m | 3094 | 37 |
| BCG | Card | 35 | 12-23 m | 3094 | 37 |
| BCG | Card or History | 85 | 12-23 m | 3094 | 37 |
| BCG | History | 51 | 12-23 m | 3094 | 37 |
| DTP1 | C or H <12 months | 83 | 12-23 m | 3094 | 37 |
| DTP1 | Card | 36 | 12-23 m | 3094 | 37 |
| DTP1 | Card or History | 84 | 12-23 m | 3094 | 37 |
| DTP1 | History | 49 | 12-23 m | 3094 | 37 |
| DTP3 | C or H <12 months | 64 | 12-23 m | 3094 | 37 |
| DTP3 | Card | 31 | 12-23 m | 3094 | 37 |
| DTP3 | Card or History | 67 | 12-23 m | 3094 | 37 |
| DTP3 | History | 35 | 12-23 m | 3094 | 37 |
| HepB1 | Card or History | 80 | 12-23 m | 3094 | 37 |
| HepB3 | Card or History | 60 | 12-23 m | 3094 | 37 |
| MCV1 | C or H <12 months | 67 | 12-23 m | 3094 | 37 |
| MCV1 | Card | 31 | 12-23 m | 3094 | 37 |
| MCV1 | Card or History | 76 | 12-23 m | 3094 | 37 |
| MCV1 | History | 46 | 12-23 m | 3094 | 37 |
| Pol1 | C or H <12 months | 87 | 12-23 m | 3094 | 37 |
| Pol1 | Card | 36 | 12-23 m | 3094 | 37 |
| Pol1 | Card or History | 89 | 12-23 m | 3094 | 37 |
| Pol1 | History | 53 | 12-23 m | 3094 | 37 |
| Pol3 | C or H <12 months | 71 | 12-23 m | 3094 | 37 |
| Pol3 | Card | 32 | 12-23 m | 3094 | 37 |
| Pol3 | Card or History | 74 | 12-23 m | 3094 | 37 |
| Pol3 | History | 41 | 12-23 m | 3094 | 37 |

Indonesia - survey details

2006 Report of Result of National Basic Health Research (RISKEDAS) 2007

| Vaccine | Confirmation method | Coverage | Age cohort | Sample | Cards seen |
|---------|---------------------|----------|------------|--------|------------|
| BCG | Card or History | 87 | 12-23 m | 438 | 23 |
| DTP3 | Card or History | 68 | 12-23 m | 438 | 23 |
| HepB3 | Card or History | 63 | 12-23 m | 438 | 23 |
| MCV1 | Card or History | 82 | 12-23 m | 438 | 23 |
| Pol3 | Card or History | 71 | 12-23 m | 438 | 23 |

2006 Republic of Indonesia Immunization Coverage Survey 2007

| Vaccine | Confirmation method | Coverage | Age cohort | Sample | Cards seen |
|---------|---------------------|----------|------------|--------|------------|
| BCG | Card or History | 91 | 12-23 m | 18204 | 52 |
| DTP1 | Card or History | 87 | 12-23 m | 18204 | 52 |
| DTP3 | Card or History | 75 | 12-23 m | 18204 | 52 |
| HepB3 | Card or History | 74 | 12-23 m | 18204 | 52 |
| MCV1 | Card or History | 80 | 12-23 m | 18204 | 52 |
| Pol3 | Card or History | 83 | 12-23 m | 18204 | 52 |

2001 Indonesia Demographic and Health Survey 2002-2003

| Vaccine | Confirmation method | Coverage | Age cohort | Sample | Cards seen |
|---------|---------------------|----------|------------|--------|------------|
| BCG | Card | 93 | 12-23 m | 2819 | 31 |
| BCG | Card or History | 82 | 12-23 m | 2819 | 31 |

| | | | | | |
|------|-----------------|----|---------|------|----|
| BCG | History | 78 | 12-23 m | 2819 | 31 |
| DTP1 | Card | 94 | 12-23 m | 2819 | 31 |
| DTP1 | Card or History | 81 | 12-23 m | 2819 | 31 |
| DTP1 | History | 76 | 12-23 m | 2819 | 31 |
| DTP3 | Card | 81 | 12-23 m | 2819 | 31 |
| DTP3 | Card or History | 58 | 12-23 m | 2819 | 31 |
| DTP3 | History | 48 | 12-23 m | 2819 | 31 |
| MCV1 | Card | 71 | 12-23 m | 2819 | 31 |
| MCV1 | Card or History | 72 | 12-23 m | 2819 | 31 |
| MCV1 | History | 68 | 12-23 m | 2819 | 31 |
| Pol1 | Card | 96 | 12-23 m | 2819 | 31 |
| Pol1 | Card or History | 87 | 12-23 m | 2819 | 31 |
| Pol1 | History | 84 | 12-23 m | 2819 | 31 |
| Pol3 | Card | 88 | 12-23 m | 2819 | 31 |
| Pol3 | Card or History | 66 | 12-23 m | 2819 | 31 |
| Pol3 | History | 56 | 12-23 m | 2819 | 31 |

2001 NID + Routine Coverage Survey

| Vaccine | Confirmation method | Coverage | Age cohort | Sample | Cards seen |
|---------|---------------------|----------|------------|--------|------------|
| BCG | Card or History | 76 | 12-35 m | - | 66 |
| DTP1 | Card or History | 77 | 12-35 m | - | 66 |
| DTP3 | Card or History | 67 | 12-35 m | - | 66 |
| HepB3 | Card or History | 62 | 12-35 m | - | 66 |
| MCV1 | Card or History | 70 | 12-35 m | - | 66 |
| Pol3 | Card or History | 67 | 12-35 m | - | 66 |

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

Indonesia

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

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

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

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

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

| Year | PAB coverage estimate (%) |
|------|---------------------------|
| 2003 | 82 |
| 2004 | 82 |
| 2005 | 83 |
| 2006 | 83 |
| 2007 | 83 |
| 2008 | 79 |
| 2009 | 85 |
| 2010 | 85 |
| 2011 | 85 |
| 2012 | 85 |
| 2013 | 85 |
| 2014 | 85 |

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