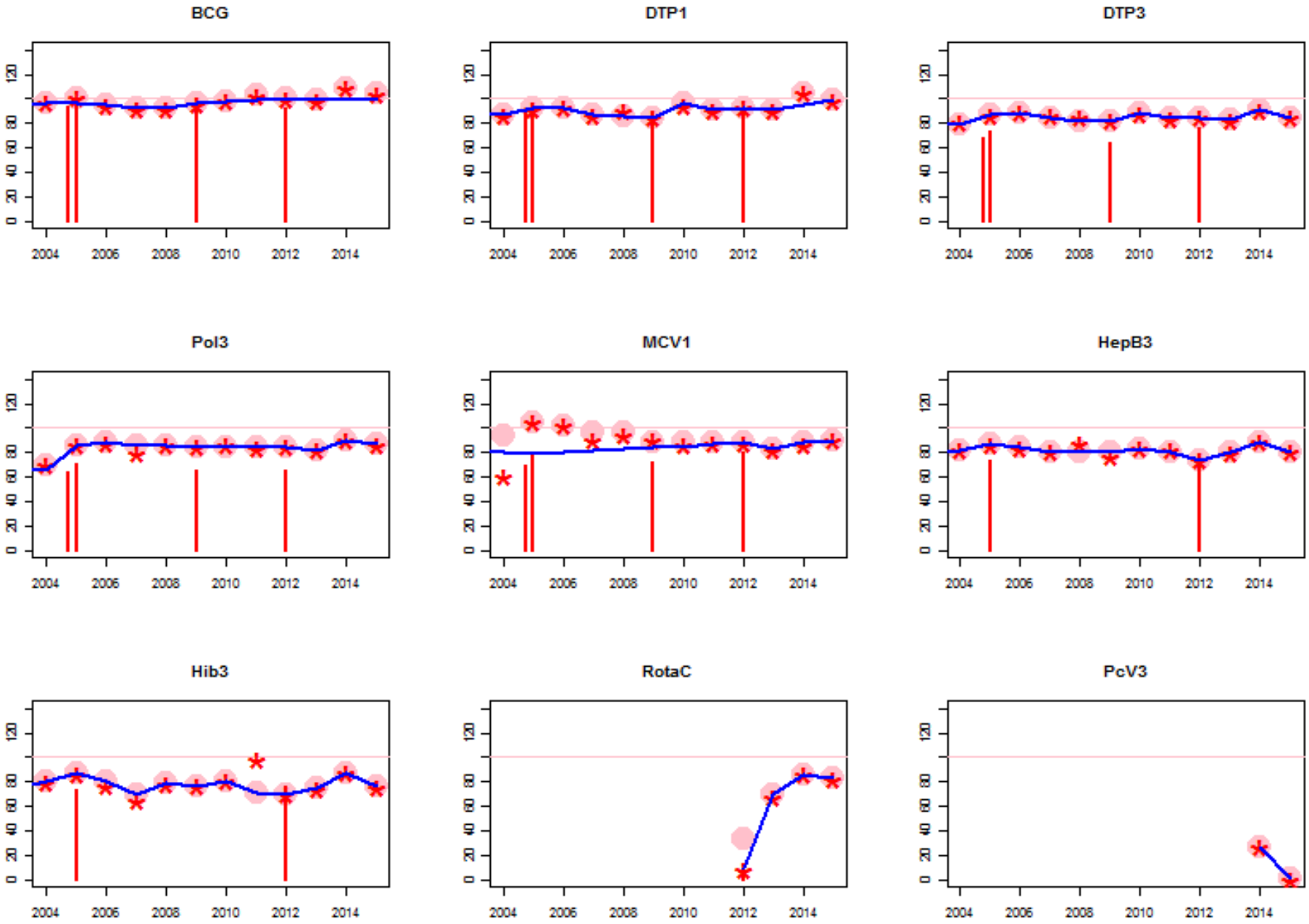
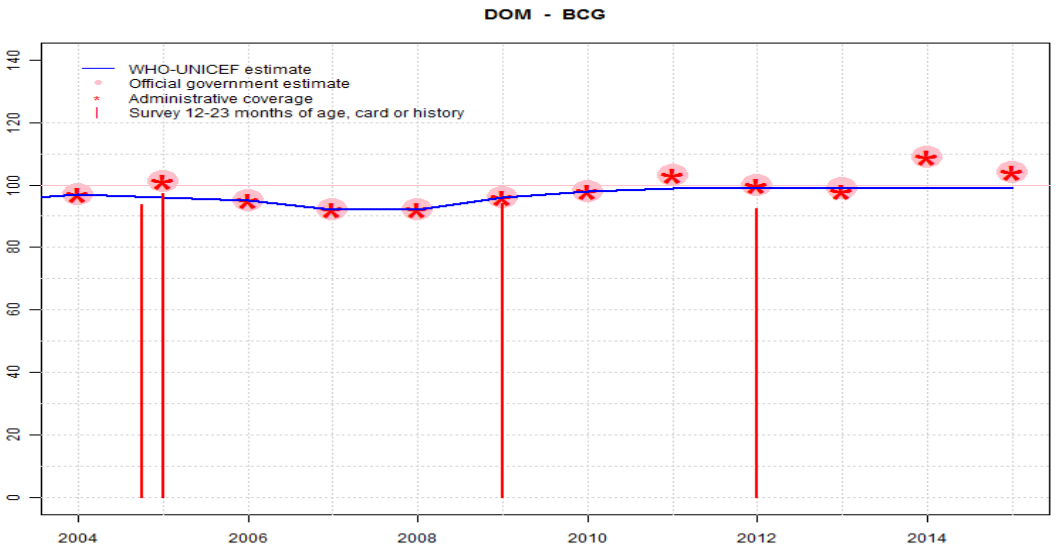

BCG
DTP1
DTP3
Pol3
MCV1
HepB3
Hib3
RotaC
PcV3
0
20
40
60
80
120
2004
2006
2008
2010
2012
2014

# Dominican Republic - BCG




| | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Estimate | 97 | 96 | 95 | 92 | 92 | 96 | 98 | 99 | 99 | 99 | 99 | 99 |
| Estimate GoC | ●●● | ●● | ●●● | ●● | ●●● | ●●● | ●●● | ●● | ●●● | ●●● | ●● | ●● |
| Official | 97 | 101 | 95 | 92 | 92 | 96 | 98 | 103 | 100 | 99 | 109 | 104 |
| Administrative | 97 | 101 | 95 | 92 | 92 | 96 | 98 | 103 | 100 | 98 | 109 | 104 |
| Survey | NA | * | NA | NA | NA | 94.1 | NA | NA | 92.4 | 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: 2015 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:

2004: Estimate based on coverage reported by national government. GoC=R+ S+ D+

2005: Estimate based on interpolation between data reported by national government supported by survey. Survey evidence of 96 percent based on 2 survey(s). Reported data excluded. 101 percent greater than 100 percent. GoC=S+ D+

2006: Estimate based on coverage reported by national government. GoC=R+ S+ D+

2007: Estimate based on coverage reported by national government. GoC=R+ S+

2008: Estimate based on coverage reported by national government. 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). GoC=R+ S+ D+

2010: Estimate based on coverage reported by national government. GoC=R+ S+ D+

2011: Estimate based on interpolation between coverage reported by national government. Reported data excluded. 103 percent greater than 100 percent. GoC=S+ D+

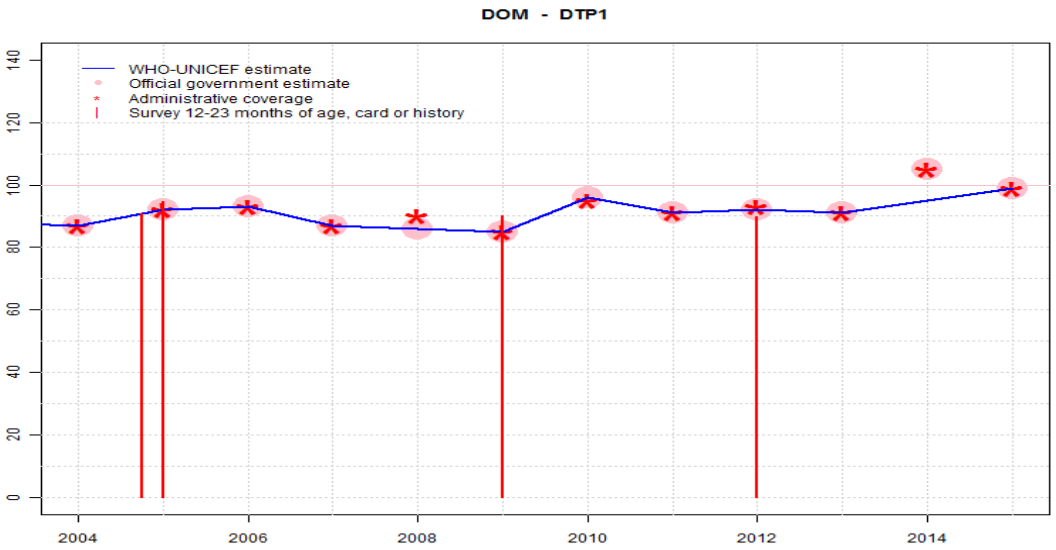
2012: Estimate based on coverage reported by national government supported by survey. Survey evidence of 92 percent based on 1 survey(s). GoC=R+ S+ D+

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

2014: Estimate based on extrapolation from data reported by national government. Reported data excluded. 109 percent greater than 100 percent. Increase in reported coverage reflects a decrease in the reported target population data. GoC=S+ D+

2015: Estimate based on extrapolation from data reported by national government. Reported data excluded. 104 percent greater than 100 percent. WHO and UNICEF are aware of an on-going Multiple Indicator Cluster Survey and await the final results. GoC=D+

# Dominican Republic - DTP1




| | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Estimate | 87 | 92 | 93 | 87 | 86 | 85 | 96 | 91 | 92 | 91 | 95 | 99 |
| Estimate GoC | ●●● | ●●● | ●●● | ●● | ●●● | ●●● | ●●● | ●●● | ●●● | ●●● | ●● | ●● |
| Official | 87 | 92 | 93 | 87 | 86 | 85 | 96 | 91 | 92 | 91 | 105 | 99 |
| Administrative | 87 | 92 | 93 | 87 | 90 | 85 | 95 | 91 | 93 | 91 | 105 | 99 |
| Survey | NA | * | NA | NA | NA | 90.3 | NA | NA | 89.8 | 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: 2015 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:

2004: Estimate based on coverage reported by national government. GoC=R+ S+ D+

2005: Estimate based on coverage reported by national government supported by survey. Survey evidence of 93 percent based on 2 survey(s). GoC=R+ S+ D+

2006: Estimate based on coverage reported by national government. GoC=R+ S+ D+

2007: Estimate based on coverage reported by national government. GoC=R+ S+

2008: Estimate based on coverage reported by national government. GoC=R+ S+ D+

2009: Estimate based on coverage reported by national government supported by survey. Survey evidence of 90 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+

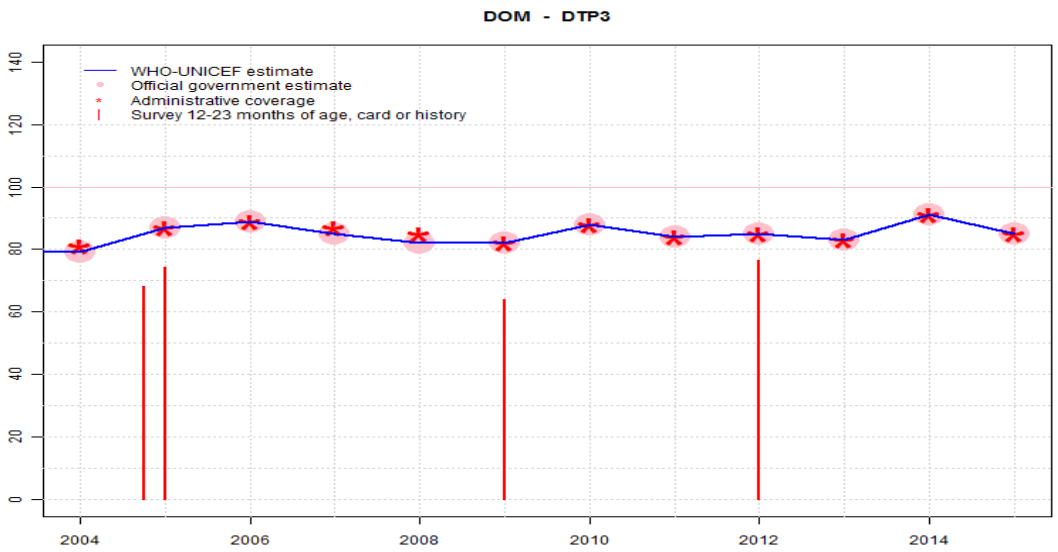
2012: Estimate based on coverage reported by national government supported by survey. Survey evidence of 90 percent based on 1 survey(s). GoC=R+ S+ D+

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

2014: Estimate based on interpolation between data reported by national government. Reported data excluded. 105 percent greater than 100 percent. Increase in reported coverage reflects a decrease in the reported target population data. Estimate of 95 percent changed from previous revision value of 91 percent. GoC=S+ D+

2015: Estimate based on coverage reported by national government. WHO and UNICEF are aware of an on-going Multiple Indicator Cluster Survey and await the final results. GoC=R+ D+

# Dominican Republic - DTP3




| | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Estimate | 79 | 87 | 89 | 85 | 82 | 82 | 88 | 84 | 85 | 83 | 91 | 85 |
| Estimate GoC | ●●● | ●●● | ●●● | ●● | ●●● | ●●● | ●●● | ●●● | ●●● | ●●● | ●● | ●● |
| Official | 79 | 87 | 89 | 85 | 82 | 82 | 88 | 84 | 85 | 83 | 91 | 85 |
| Administrative | 81 | 87 | 89 | 87 | 85 | 82 | 88 | 84 | 85 | 83 | 91 | 85 |
| Survey | NA | * | NA | NA | NA | 64.1 | NA | NA | 76.6 | 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: 2015 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:

2004: Estimate based on coverage reported by national government. GoC=R+ S+ D+

2005: Estimate based on coverage reported by national government supported by survey. Survey evidence of 83 percent based on 2 survey(s). Dominican Republic Multiple Indicator Cluster Survey 2006 card or history results of 68 percent modifed for recall bias to 84 percent based on 1st dose card or history coverage of 95 percent, 1st dose card only coverage of 68 percent and 3d dose card only coverage of 60 percent. Dominican Republic Demographic and Health Survey 2007 card or history results of 74 percent modifed for recall bias to 81 percent based on 1st dose card or history coverage of 91 percent, 1st dose card only coverage of 61 percent and 3d dose card only coverage of 54 percent. GoC=R+ S+ D+

2006: Estimate based on coverage reported by national government. GoC=R+ S+ D+

2007: Estimate based on coverage reported by national government. GoC=R+ S+

2008: Estimate based on coverage reported by national government. GoC=R+ S+ D+

2009: Estimate based on coverage reported by national government supported by survey. Survey evidence of 80 percent based on 1 survey(s). Dominican Republic Multiple Indicator Cluster Survey 2009-2010 card or history results of 64 percent modifed for recall bias to 80 percent based on 1st dose card or history coverage of 90 percent, 1st dose card only coverage of 59 percent and 3d dose card only coverage of 52 percent. 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+

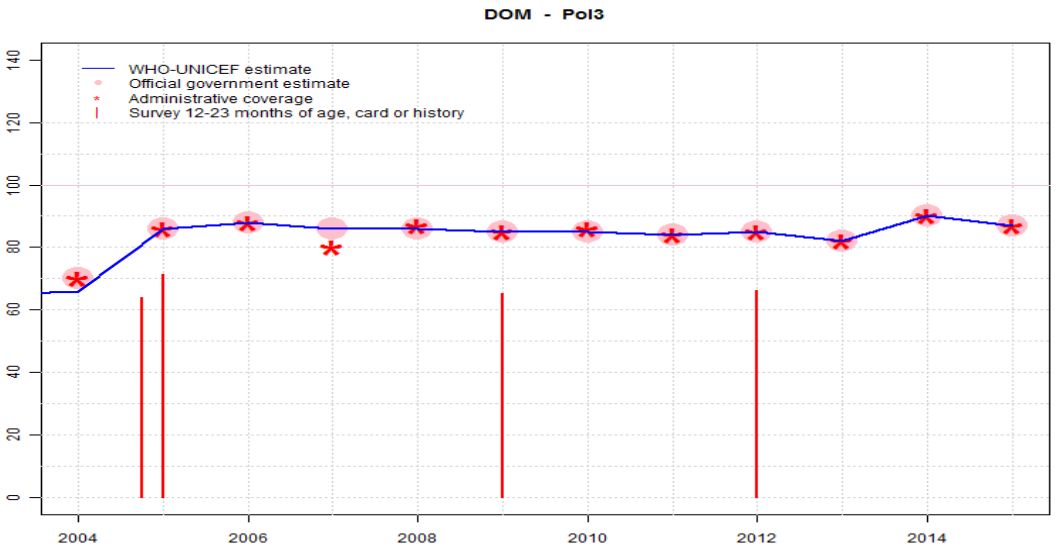
2012: Estimate based on coverage reported by national government supported by survey. Survey evidence of 78 percent based on 1 survey(s). Dominican Republic Demographic and Health Survey 2013 card or history results of 77 percent modifed for recall bias to 78 percent based on 1st dose card or history coverage of 90 percent, 1st dose card only coverage of 67 percent and 3d dose card only coverage of 58 percent. GoC=R+ S+ D+

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

2014: Estimate based on coverage reported by national government. Increase in reported coverage reflects a decrease in the reported target population data. GoC=R+ D+

2015: Estimate based on coverage reported by national government. WHO and UNICEF are aware of an on-going Multiple Indicator Cluster Survey and await the final results. GoC=R+ D+

# Dominican Republic - Pol3




| | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Estimate | 66 | 86 | 88 | 86 | 86 | 85 | 85 | 84 | 85 | 82 | 90 | 87 |
| Estimate GoC | •• | ••• | ••• | •• | ••• | ••• | ••• | ••• | ••• | ••• | ••• | •• |
| Official | 70 | 86 | 88 | 86 | 86 | 85 | 85 | 84 | 85 | 82 | 90 | 87 |
| Administrative | 70 | 86 | 88 | 80 | 87 | 85 | 86 | 84 | 85 | 82 | 90 | 87 |
| Survey | NA | * | NA | NA | NA | 65.4 | NA | NA | 66.1 | 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: 2015 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:

2004: Reported data calibrated to 2001 and 2005 levels. GoC=D+

2005: Estimate based on coverage reported by national government supported by survey. Survey evidence of 84 percent based on 2 survey(s). Dominican Republic Multiple Indicator Cluster Survey 2006 card or history results of 72 percent modifed for recall bias to 85 percent based on 1st dose card or history coverage of 96 percent, 1st dose card only coverage of 68 percent and 3d dose card only coverage of 60 percent. Dominican Republic Demographic and Health Survey 2007 card or history results of 64 percent modifed for recall bias to 82 percent based on 1st dose card or history coverage of 90 percent, 1st dose card only coverage of 62 percent and 3d dose card only coverage of 56 percent. GoC=R+ S+ D+

2006: Estimate based on coverage reported by national government. GoC=R+ S+ D+

2007: Estimate based on coverage reported by national government. GoC=R+ S+

2008: Estimate based on coverage reported by national government. GoC=R+ S+ D+

2009: Estimate based on coverage reported by national government supported by survey. Survey evidence of 82 percent based on 1 survey(s). Dominican Republic Multiple Indicator Cluster Survey 2009-2010 card or history results of 65 percent modifed for recall bias to 82 percent based on 1st dose card or history coverage of 94 percent, 1st dose card only coverage of 62 percent and 3d dose card only coverage of 55 percent. 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+

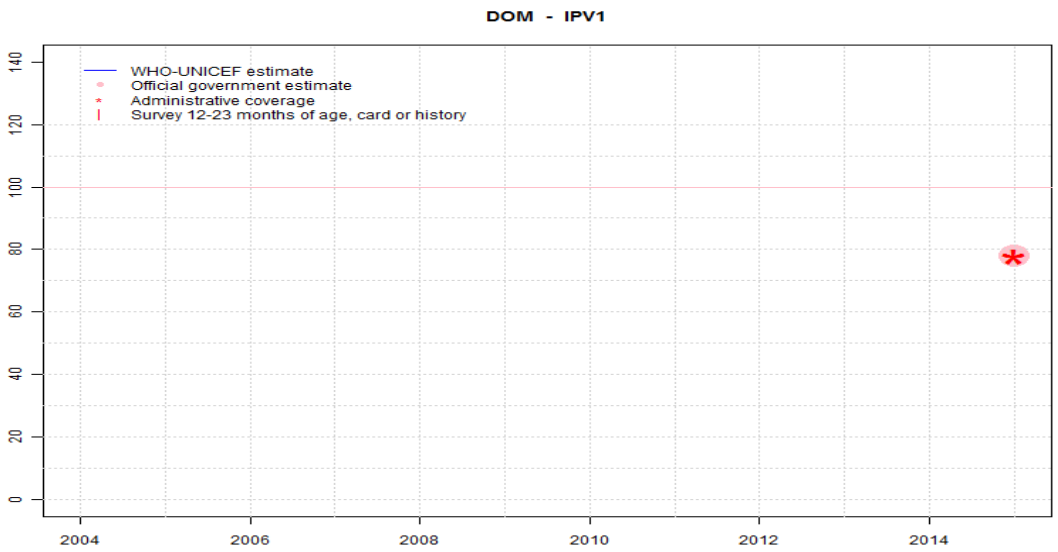
2012: Estimate based on coverage reported by national government supported by survey. Survey evidence of 84 percent based on 1 survey(s). Dominican Republic Demographic and Health Survey 2013 card or history results of 66 percent modifed for recall bias to 84 percent based on 1st dose card or history coverage of 90 percent, 1st dose card only coverage of 68 percent and 3d dose card only coverage of 64 percent. GoC=R+ S+ D+

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

2014: Estimate based on coverage reported by national government. Increase in reported coverage reflects a decrease in the reported target population data. GoC=R+ S+ D+

2015: Estimate based on coverage reported by national government. WHO and UNICEF are aware of an on-going Multiple Indicator Cluster Survey and await the final results. GoC=R+ D+

# Dominican Republic - IPV1




| | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Estimate | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 6 |
| Estimate GoC | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | • |
| Official | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 78 |
| Administrative | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 78 |
| 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: 2015 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.

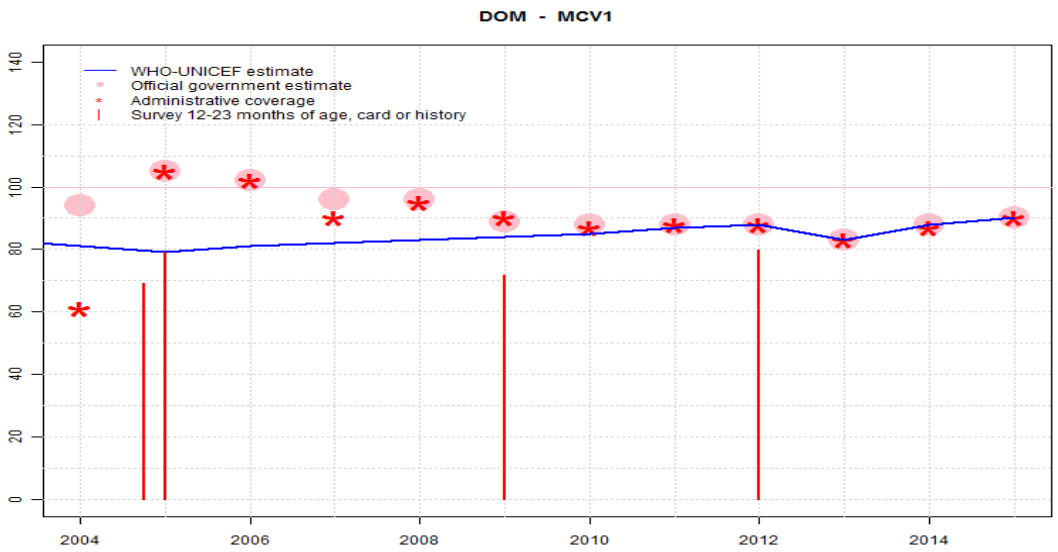
● There are no directly supporting data; or data from at least one source; [R-], [D-], [S-]; challenge the estimate.

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:

2015: IPV introduced in December 2015. Programme reports 78 percent coverage in 8 percent of the national target population. Estimate is based on coverage achieved in total national annual population. WHO and UNICEF are aware of an on-going Multiple Indicator Cluster Survey and await the final results. Estimate challenged by: R-

# Dominican Republic - MCV1




| | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Estimate | 81 | 79 | 81 | 82 | 83 | 84 | 85 | 87 | 88 | 83 | 88 | 90 |
| Estimate GoC | • | • | • | • | • | • | • | • | ••• | ••• | ••• | •• |
| Official | 94 | 105 | 102 | 96 | 96 | 89 | 88 | 88 | 88 | 83 | 88 | 90 |
| Administrative | 61 | 105 | 102 | 90 | 95 | 90 | 87 | 88 | 88 | 83 | 87 | 90 |
| Survey | NA | * | NA | NA | NA | 71.7 | NA | NA | 79.9 | 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: 2015 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:

2004: Reported data calibrated to 2001 and 2005 levels. Reported data excluded. Fluctuating and inconsistent data suggest poor reporting. Estimate challenged by: D-S-

2005: Estimate is based on DHS survey results. Dominican Republic Multiple Indicator Cluster Survey 2006 results ignored by working group. 2005 survey results are for children 12-23 months of age and underestimate immunization recommended at 12 months.Dominican Republic Demographic and Health Survey 2007 results ignored by working group. 2005 survey results are for children 12-23 months of age and underestimate immunization recommended at 12 months.Reported data excluded. Fluctuating and inconsistent data suggest poor reporting.Reported data excluded. 105 percent greater than 100 percent. Estimate challenged by: D-R-S-

2006: Reported data calibrated to 2005 and 2012 levels. Reported data excluded. Fluctuating and inconsistent data suggest poor reporting.Reported data excluded. 102 percent greater than 100 percent. Estimate challenged by: D-S-

2007: Reported data calibrated to 2005 and 2012 levels. Reported data excluded. Fluctuating and inconsistent data suggest poor reporting. Estimate challenged by: D-S-

2008: Reported data calibrated to 2005 and 2012 levels. Reported data excluded. Fluctuating and inconsistent data suggest poor reporting. Estimate challenged by: S-

2009: Reported data calibrated to 2005 and 2012 levels. Dominican Republic Multiple Indicator Cluster Survey 2009-2010 results ignored by working group. 2009 survey results are for children 12-23 months of age and underestimate immunization recommended at 12 months.Reported data excluded. Fluctuating and inconsistent data suggest poor reporting. Estimate challenged by: S-

2010: Reported data calibrated to 2005 and 2012 levels. Reported data excluded. . Estimate challenged by: S-

2011: Reported data calibrated to 2005 and 2012 levels. Reported data excluded. . Estimate challenged by: S-

2012: Estimate based on coverage reported by national government supported by survey. Survey evidence of 80 percent based on 1 survey(s). GoC=R+ S+ D+

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

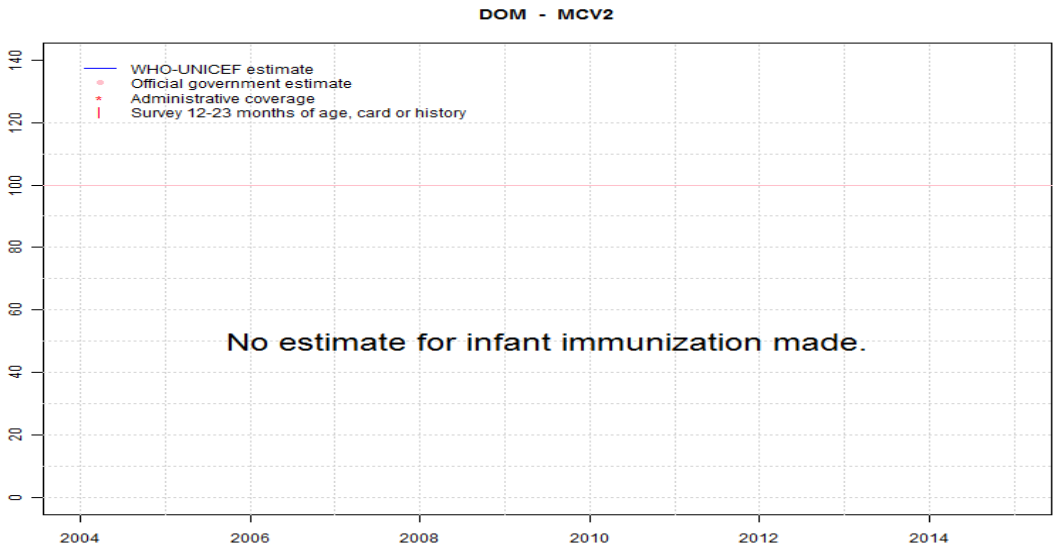
2014: Estimate based on coverage reported by national government. Increase in reported coverage reflects a decrease in the reported target population data. GoC=R+ S+ D+

2015: Estimate based on coverage reported by national government. WHO and

# Dominican Republic - MCV1

UNICEF are aware of an on-going Multiple Indicator Cluster Survey and await the final results. GoC=R+ D+

# Dominican Republic - MCV2




| | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| 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.

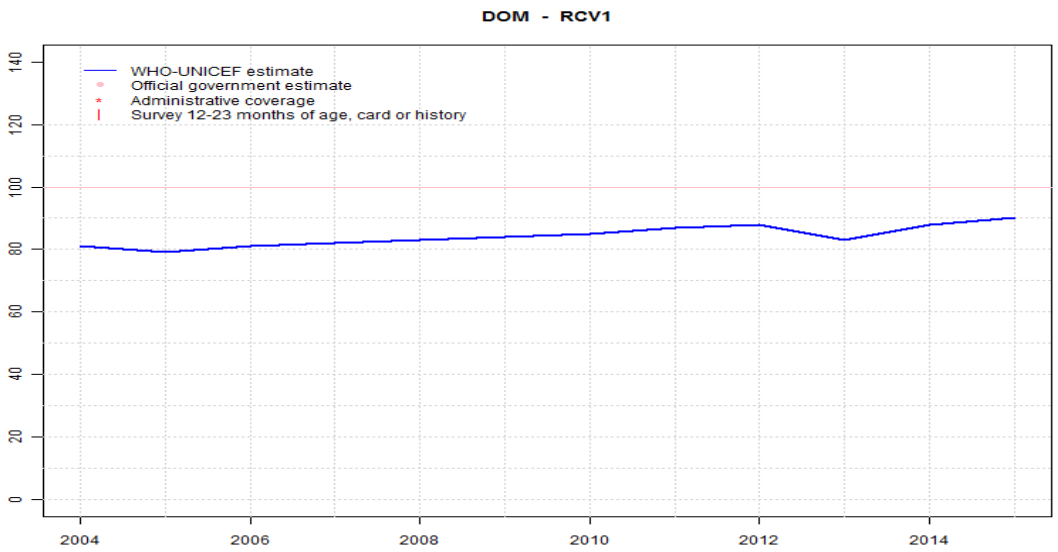
●●● Estimate is supported by reported data [R+], coverage recalculated with an independent denominator from the World Population Prospects: 2015 revision from the UN Population Division (D+), and at least one supporting survey within 2 years [S+]. While well supported, the estimate still carries a risk 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.

# Dominican Republic - RCV1




| | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Estimate | 81 | 79 | 81 | 82 | 83 | 84 | 85 | 87 | 88 | 83 | 88 | 90 |
| Estimate GoC | • | • | • | • | • | • | • | • | ••• | ••• | ••• | •• |
| 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: 2015 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.

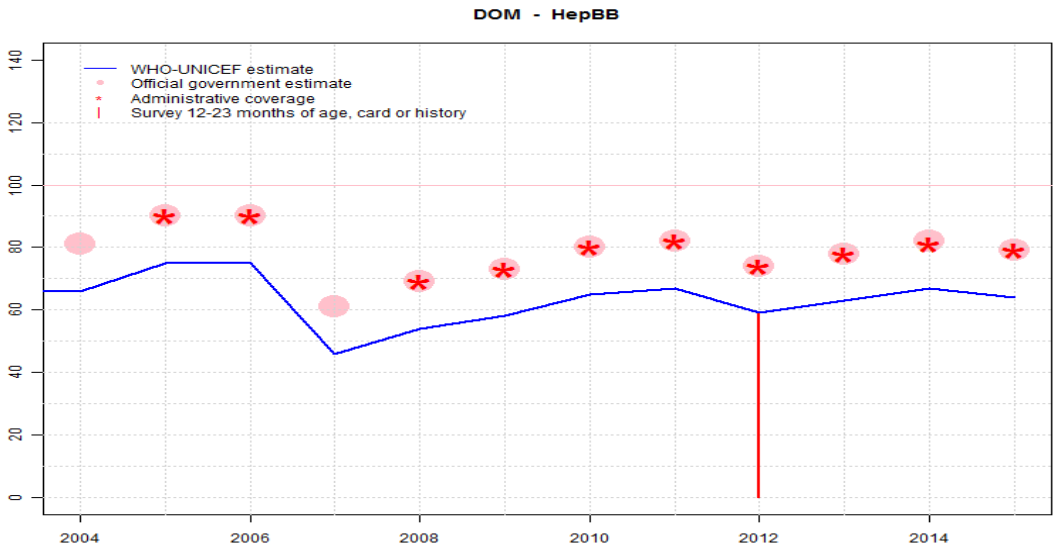
In all cases these estimates should be used with caution and should be assessed in light of the objective for which they are being used.

## Description:

For this revision, coverage estimates for the first dose of rubella containing vaccine are based on WHO and UNICEF estimates of coverage of measles containing vaccine. Nationally reported coverage of rubella containing vaccine is not taken into consideration nor are they represented in the accompanying graph and data table.

2004: Estimate based on estimated MCV1. Estimate challenged by: D-S-
2005: Estimate based on estimated MCV1. Estimate challenged by: D-R-S-
2006: Estimate based on estimated MCV1. Estimate challenged by: D-S-
2007: Estimate based on estimated MCV1. Estimate challenged by: D-S-
2008: Estimate based on estimated MCV1. Estimate challenged by: S-
2009: Estimate based on estimated MCV1. Estimate challenged by: S-
2010: Estimate based on estimated MCV1. Estimate challenged by: S-
2011: Estimate based on estimated MCV1. Estimate challenged by: S-
2012: Estimate based on estimated MCV1. GoC=R+ S+ D+
2013: Estimate based on estimated MCV1. GoC=R+ S+ D+
2014: Estimate based on estimated MCV1. Increase in reported coverage reflects a decrease in the reported target population data. GoC=R+ S+ D+
2015: Estimate based on estimated MCV1. WHO and UNICEF are aware of an on-going Multiple Indicator Cluster Survey and await the final results. GoC=R+ D+

# Dominican Republic - HepBB




| | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Estimate | 66 | 75 | 75 | 46 | 54 | 58 | 65 | 67 | 59 | 63 | 67 | 64 |
| Estimate GoC | • | • | • | • | • | • | • | • | • | • | •• | •• |
| Official | 81 | 90 | 90 | 61 | 69 | 73 | 80 | 82 | 74 | 78 | 82 | 79 |
| Administrative | NA | 90 | 90 | NA | 69 | 73 | 80 | 82 | 74 | 78 | 81 | 79 |
| Survey | NA | NA | NA | NA | NA | NA | NA | NA | 58.7 | 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: 2015 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.

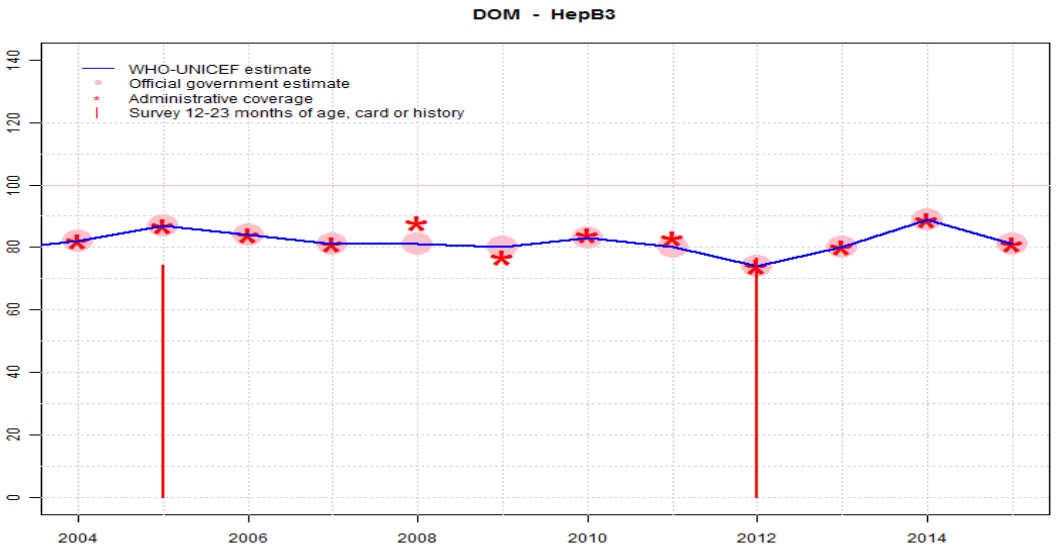
● There are no directly supporting data; or data from at least one source; [R-], [D-], [S-]; challenge the estimate.

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:

2004: Reported data calibrated to 2012 levels. GoC=No accepted empirical data
2005: Reported data calibrated to 2012 levels. Estimate challenged by: D-
2006: Reported data calibrated to 2012 levels. Estimate challenged by: D-
2007: Reported data calibrated to 2012 levels. GoC=No accepted empirical data
2008: Reported data calibrated to 2012 levels. Estimate challenged by: D-
2009: Reported data calibrated to 2012 levels. Estimate challenged by: D-
2010: Reported data calibrated to 2012 levels. Estimate challenged by: D-
2011: Reported data calibrated to 2012 levels. Estimate challenged by: D-
2012: Survey evidence does not support reported data. Estimate based on survey results. Survey evidence of 59 percent based on 1 survey(s). Estimate challenged by: D-R-
2013: Reported data calibrated to 2012 levels. Estimate challenged by: D-
2014: Reported data calibrated to 2012 levels. Increase in reported coverage reflects a decrease in the reported target population data. GoC=S+ D+
2015: Reported data calibrated to 2012 levels. WHO and UNICEF are aware of an on-going Multiple Indicator Cluster Survey and await the final results. GoC=D+

# Dominican Republic - HepB3




| | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Estimate | 82 | 87 | 84 | 81 | 81 | 80 | 83 | 80 | 74 | 80 | 89 | 81 |
| Estimate GoC | ●●● | ●●● | ●●● | ●● | ●● | ●● | ●●● | ●●● | ●●● | ●●● | ●● | ●● |
| Official | 82 | 87 | 84 | 81 | 81 | 80 | 83 | 80 | 74 | 80 | 89 | 81 |
| Administrative | 82 | 87 | 84 | 81 | 88 | 77 | 84 | 83 | 74 | 80 | 89 | 81 |
| Survey | NA | 74.3 | NA | NA | NA | NA | NA | NA | 76.6 | 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: 2015 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:

2004: Estimate based on reported data. GoC=R+ S+ D+

2005: Estimate based on coverage reported by national government supported by survey. Survey evidence of 81 percent based on 1 survey(s). Dominican Republic Demographic and Health Survey 2007 card or history results of 74 percent modifed for recall bias to 81 percent based on 1st dose card or history coverage of 91 percent, 1st dose card only coverage of 61 percent and 3d dose card only coverage of 54 percent. GoC=R+ S+ D+

2006: Estimate based on coverage reported by national government. GoC=R+ S+ D+

2007: Estimate based on coverage reported by national government. Decline attributed to three months stock out of DTP-HepB-Hib vaccine. Pentavalent vaccine replaced with monovalent HepB vaccine. GoC=R+ S+

2008: Estimate based on coverage reported by national government. GoC=R+ D+

2009: Estimate based on coverage reported by national government. GoC=R+ D+

2010: Estimate based on coverage reported by national government. GoC=R+ S+ D+

2011: Estimate based on coverage reported by national government. GoC=R+ S+ D+

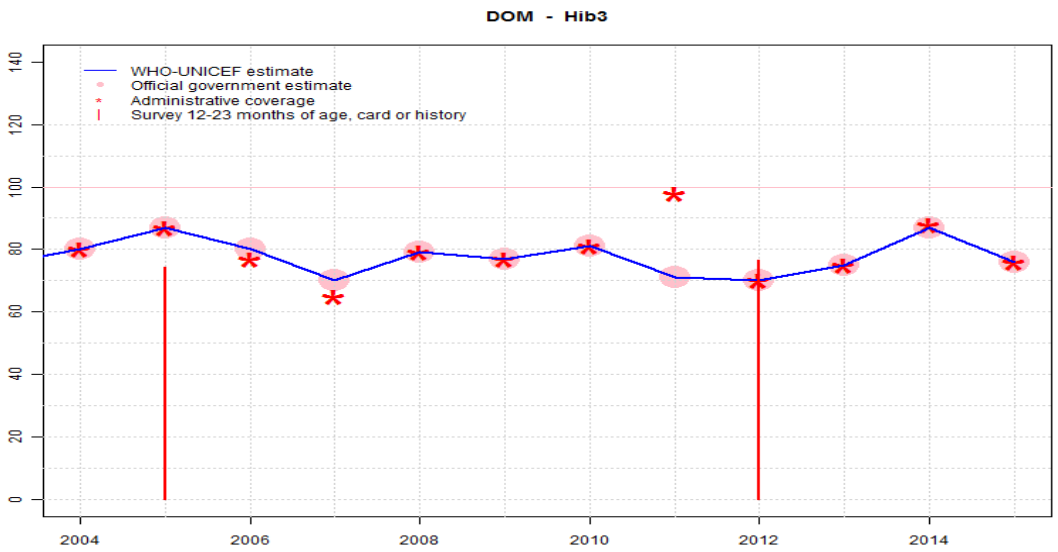
2012: Estimate based on coverage reported by national government supported by survey. Survey evidence of 78 percent based on 1 survey(s). Dominican Republic Demographic and Health Survey 2013 card or history results of 77 percent modifed for recall bias to 78 percent based on 1st dose card or history coverage of 90 percent, 1st dose card only coverage of 67 percent and 3d dose card only coverage of 58 percent. GoC=R+ S+ D+

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

2014: Estimate based on coverage reported by national government. Increase in reported coverage reflects a decrease in the reported target population data. GoC=R+ D+

2015: Estimate based on coverage reported by national government. WHO and UNICEF are aware of an on-going Multiple Indicator Cluster Survey and await the final results. GoC=R+ D+

# Dominican Republic - Hib3




| | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Estimate | 80 | 87 | 80 | 70 | 79 | 77 | 81 | 71 | 70 | 75 | 87 | 76 |
| Estimate GoC | ●●● | ●●● | ●●● | ●● | ●● | ●● | ●●● | ● | ●●● | ●●● | ●●● | ●● |
| Official | 80 | 87 | 80 | 70 | 79 | 77 | 81 | 71 | 70 | 75 | 87 | 76 |
| Administrative | 80 | 87 | 77 | 65 | 79 | 77 | 81 | 98 | 70 | 75 | 88 | 76 |
| Survey | NA | 74.3 | NA | NA | NA | NA | NA | NA | 76.6 | 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: 2015 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:

2004: Estimate based on reported data. GoC=R+ S+ D+

2005: Estimate based on coverage reported by national government supported by survey. Survey evidence of 81 percent based on 1 survey(s). Dominican Republic Demographic and Health Survey 2007 card or history results of 74 percent modifed for recall bias to 81 percent based on 1st dose card or history coverage of 91 percent, 1st dose card only coverage of 61 percent and 3d dose card only coverage of 54 percent. GoC=R+ S+ D+

2006: Estimate based on coverage reported by national government. GoC=R+ S+ D+

2007: Estimate based on coverage reported by national government. Decline attributed to three months stock out of DTP-HepB-Hib vaccine. Pentavalent vaccine replaced with DTP. GoC=R+

2008: Estimate is based on the reported data. GoC=R+ D+

2009: Estimate based on coverage reported by national government. GoC=R+ 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-

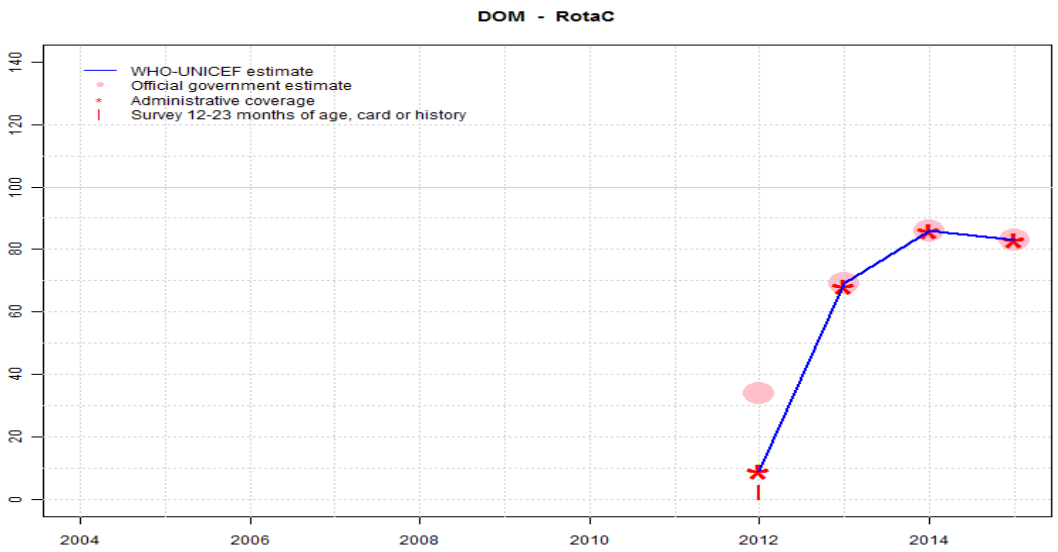
2012: Estimate based on coverage reported by national government supported by survey. Survey evidence of 78 percent based on 1 survey(s). Dominican Republic Demographic and Health Survey 2013 card or history results of 77 percent modifed for recall bias to 78 percent based on 1st dose card or history coverage of 90 percent, 1st dose card only coverage of 67 percent and 3d dose card only coverage of 58 percent. GoC=R+ S+ D+

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

2014: Estimate based on coverage reported by national government. Increase in reported coverage reflects a decrease in the reported target population data. Estimate is based on reported coverage. GoC=R+ S+ D+

2015: Estimate based on coverage reported by national government. WHO and UNICEF are aware of an on-going Multiple Indicator Cluster Survey and await the final results. Estimate is based on reported coverage. GoC=R+ D+

# Dominican Republic - RotaC




| | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Estimate | NA | NA | NA | NA | NA | NA | NA | NA | 9 | 69 | 86 | 83 |
| Estimate GoC | NA | NA | NA | NA | NA | NA | NA | NA | • | • | • | •• |
| Official | NA | NA | NA | NA | NA | NA | NA | NA | 34 | 69 | 86 | 83 |
| Administrative | NA | NA | NA | NA | NA | NA | NA | NA | 9 | 68 | 86 | 83 |
| Survey | NA | NA | NA | NA | NA | NA | NA | NA | 4.4 | 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: 2015 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:

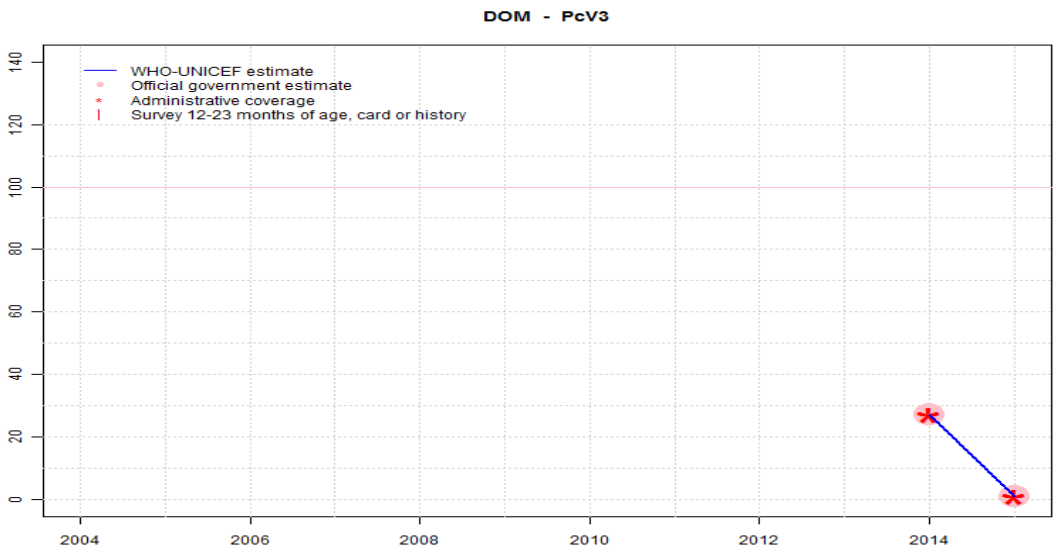
2012: Estimate based on reported administrative estimate. Dominican Republic Demographic and Health Survey 2013 results ignored by working group. Rotavirus vaccine introduced in 2012.. Estimate challenged by: S-

2013: Estimate based on coverage reported by national government. Estimate challenged by: S-

2014: Estimate based on coverage reported by national government. Increase in reported coverage reflects a decrease in the reported target population data. Estimate challenged by: S-

2015: Estimate based on coverage reported by national government. WHO and UNICEF are aware of an on-going Multiple Indicator Cluster Survey and await the final results. GoC=R+ D+

# Dominican Republic - PcV3




| | 2004 | 2005 | 2006 | 2007 | 2008 | 2009 | 2010 | 2011 | 2012 | 2013 | 2014 | 2015 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Estimate | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 27 | 1 |
| Estimate GoC | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | ●● | ●● |
| Official | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 27 | 1 |
| Administrative | NA | NA | NA | NA | NA | NA | NA | NA | NA | NA | 27 | 1 |
| 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: 2015 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:

2014: Estimate based on coverage reported by national government. Increase in reported coverage reflects a decrease in the reported target population data. GoC=R+ D+

2015: Estimate based on coverage reported by national government. WHO and UNICEF are aware of an on-going Multiple Indicator Cluster Survey and await the final results.Country reports a 12-month PCV stock-out at the national level GoC=R+ D+

# Dominican Republic - survey details

2012 República Dominicana Encuesta Demográfica y de Salud 2013

| Vaccine | Confirmation method | Coverage | Age cohort | Sample | Cards seen |
|---|---|---|---|---|---|
| BCG | C or H <18 months | 91.9 | 18-29 m | 714 | 70 |
| BCG | Card | 69.1 | 18-29 m | 498 | 70 |
| BCG | Card or History | 92.4 | 18-29 m | 714 | 70 |
| BCG | History | 23.3 | 18-29 m | 216 | 70 |
| DTP1 | C or H <18 months | 88.2 | 18-29 m | 714 | 70 |
| DTP1 | Card | 66.6 | 18-29 m | 498 | 70 |
| DTP1 | Card or History | 89.8 | 18-29 m | 714 | 70 |
| DTP1 | History | 23.2 | 18-29 m | 216 | 70 |
| DTP3 | C or H <18 months | 72.3 | 18-29 m | 714 | 70 |
| DTP3 | Card | 58 | 18-29 m | 498 | 70 |
| DTP3 | Card or History | 76.6 | 18-29 m | 714 | 70 |
| DTP3 | History | 18.6 | 18-29 m | 216 | 70 |
| HepB1 | C or H <18 months | 88.2 | 18-29 m | 714 | 70 |
| HepB1 | Card | 66.6 | 18-29 m | 498 | 70 |
| HepB1 | Card or History | 89.8 | 18-29 m | 714 | 70 |
| HepB1 | History | 23.2 | 18-29 m | 216 | 70 |
| HepB3 | C or H <18 months | 72.3 | 18-29 m | 714 | 70 |
| HepB3 | Card | 58 | 18-29 m | 498 | 70 |
| HepB3 | Card or History | 76.6 | 18-29 m | 714 | 70 |
| HepB3 | History | 18.6 | 18-29 m | 216 | 70 |
| HepBB | C or H <18 months | 58.7 | 18-29 m | 714 | 70 |
| HepBB | Card | 58.7 | 18-29 m | 498 | 70 |
| HepBB | Card or History | 58.7 | 18-29 m | 714 | 70 |
| HepBB | History | 0 | 18-29 m | 216 | 70 |
| Hib1 | C or H <18 months | 88.2 | 18-29 m | 714 | 70 |
| Hib1 | Card | 66.6 | 18-29 m | 498 | 70 |
| Hib1 | Card or History | 89.8 | 18-29 m | 714 | 70 |
| Hib1 | History | 23.2 | 18-29 m | 216 | 70 |
| Hib3 | C or H <18 months | 72.3 | 18-29 m | 714 | 70 |
| Hib3 | Card | 58 | 18-29 m | 498 | 70 |
| Hib3 | Card or History | 76.6 | 18-29 m | 714 | 70 |
| Hib3 | History | 18.6 | 18-29 m | 216 | 70 |
| MCV1 | C or H <18 months | 74.7 | 18-29 m | 714 | 70 |
| MCV1 | Card | 60.9 | 18-29 m | 498 | 70 |
| MCV1 | Card or History | 79.9 | 18-29 m | 714 | 70 |
| MCV1 | History | 19 | 18-29 m | 216 | 70 |
| Pol1 | C or H <18 months | 89.7 | 18-29 m | 714 | 70 |
| Pol1 | Card | 68.3 | 18-29 m | 498 | 70 |
| Pol1 | Card or History | 90.1 | 18-29 m | 714 | 70 |
| Pol1 | History | 21.7 | 18-29 m | 216 | 70 |
| Pol3 | C or H <18 months | 63.7 | 18-29 m | 714 | 70 |
| Pol3 | Card | 63.6 | 18-29 m | 498 | 70 |
| Pol3 | Card or History | 66.1 | 18-29 m | 714 | 70 |
| Pol3 | History | 2.5 | 18-29 m | 216 | 70 |
| RotaC | C or H <18 months | 4.4 | 18-29 m | 714 | 70 |
| RotaC | Card | 0.3 | 18-29 m | 498 | 70 |
| RotaC | Card or History | 4.4 | 18-29 m | 714 | 70 |
| RotaC | History | 4.1 | 18-29 m | 216 | 70 |

2011 República Dominicana Encuesta Demográfica y de Salud 2013

| Vaccine | Confirmation method | Coverage | Age cohort | Sample | Cards seen |
|---|---|---|---|---|---|
| BCG | C or H <18 months | 90.4 | 24-35 m | 683 | 70 |
| DTP1 | C or H <18 months | 87.8 | 24-35 m | 683 | 70 |
| DTP3 | C or H <18 months | 71.9 | 24-35 m | 683 | 70 |
| HepB1 | C or H <18 months | 87.8 | 24-35 m | 683 | 70 |
| HepB3 | C or H <18 months | 71.9 | 24-35 m | 683 | 70 |
| Hib1 | C or H <18 months | 87.8 | 24-35 m | 683 | 70 |
| Hib3 | C or H <18 months | 71.9 | 24-35 m | 683 | 70 |
| MCV1 | C or H <18 months | 71.6 | 24-35 m | 683 | 70 |
| Pol1 | C or H <18 months | 88.3 | 24-35 m | 683 | 70 |
| Pol3 | C or H <18 months | 54.9 | 24-35 m | 683 | 70 |

2010 República Dominicana Encuesta Demográfica y de Salud 2013

| Vaccine | Confirmation method | Coverage | Age cohort | Sample | Cards seen |
|---|---|---|---|---|---|
| BCG | C or H <18 months | 92.6 | 36-47 m | 728 | 70 |
| DTP1 | C or H <18 months | 91.8 | 36-47 m | 728 | 70 |
| DTP3 | C or H <18 months | 76.4 | 36-47 m | 728 | 70 |
| HepB1 | C or H <18 months | 91.8 | 36-47 m | 728 | 70 |

| | | | | | |
|---|---|---|---|---|---|
| HepB3 | C or H <18 months | 76.4 | 36-47 m | 728 | 70 |
| Hib1 | C or H <18 months | 91.8 | 36-47 m | 728 | 70 |
| Hib3 | C or H <18 months | 76.4 | 36-47 m | 728 | 70 |
| MCV1 | C or H <18 months | 75.6 | 36-47 m | 728 | 70 |
| Pol1 | C or H <18 months | 91.2 | 36-47 m | 728 | 70 |
| Pol3 | C or H <18 months | 54.3 | 36-47 m | 728 | 70 |

2009 República Dominicana Encuesta Demográfica y de Salud 2013

| Vaccine | Confirmation method | Coverage | Age cohort | Sample | Cards seen |
|---|---|---|---|---|---|
| BCG | C or H <18 months | 91.2 | 48-59 m | 711 | 70 |
| DTP1 | C or H <18 months | 87.3 | 48-59 m | 711 | 70 |
| DTP3 | C or H <18 months | 69.3 | 48-59 m | 711 | 70 |
| HepB1 | C or H <18 months | 87.3 | 48-59 m | 711 | 70 |
| HepB3 | C or H <18 months | 69.3 | 48-59 m | 711 | 70 |
| Hib1 | C or H <18 months | 87.3 | 48-59 m | 711 | 70 |
| Hib3 | C or H <18 months | 69.3 | 48-59 m | 711 | 70 |
| MCV1 | C or H <18 months | 70.3 | 48-59 m | 711 | 70 |
| Pol1 | C or H <18 months | 88.4 | 48-59 m | 711 | 70 |
| Pol3 | C or H <18 months | 51.2 | 48-59 m | 711 | 70 |

2009 República Dominicana Encuesta Nacional de Hogares de Propósitos Múltiples ENHOGAR 2009-2010

| Vaccine | Confirmation method | Coverage | Age cohort | Sample | Cards seen |
|---|---|---|---|---|---|
| BCG | C or H <12 months | 93.4 | 12-23 m | - | - |
| BCG | Card | 60.1 | 12-23 m | - | - |
| BCG | Card or History | 94.1 | 12-23 m | 594 | - |
| BCG | History | 34 | 12-23 m | - | - |
| DTP1 | C or H <12 months | 72 | 12-23 m | - | - |
| DTP1 | Card | 59.2 | 12-23 m | - | - |
| DTP1 | Card or History | 90.3 | 12-23 m | 594 | - |
| DTP1 | History | 31.1 | 12-23 m | - | - |
| DTP3 | C or H <12 months | 54.9 | 12-23 m | - | - |
| DTP3 | Card | 52.3 | 12-23 m | - | - |
| DTP3 | Card or History | 64.1 | 12-23 m | 594 | - |
| DTP3 | History | 11.8 | 12-23 m | - | - |
| MCV1 | C or H <12 months | 62.7 | 12-23 m | - | - |
| MCV1 | Card | 44.2 | 12-23 m | - | - |
| MCV1 | Card or History | 71.7 | 12-23 m | 594 | - |
| MCV1 | History | 27.4 | 12-23 m | - | - |
| Pol1 | C or H <12 months | 90.6 | 12-23 m | - | - |
| Pol1 | Card | 61.8 | 12-23 m | - | - |
| Pol1 | Card or History | 93.5 | 12-23 m | 594 | - |
| Pol1 | History | 31.7 | 12-23 m | - | - |
| Pol3 | C or H <12 months | 61.6 | 12-23 m | - | - |
| Pol3 | Card | 54.5 | 12-23 m | - | - |
| Pol3 | Card or History | 65.4 | 12-23 m | 594 | - |
| Pol3 | History | 10.9 | 12-23 m | - | - |

2005 República Dominicana Encuesta Demográfica y de Salud 2007

| Vaccine | Confirmation method | Coverage | Age cohort | Sample | Cards seen |
|---|---|---|---|---|---|
| BCG | C or H <12 months | 93.5 | 18-29 m | 2120 | 62 |
| BCG | Card | 61.5 | 18-29 m | 2120 | 62 |
| BCG | Card or History | 93.6 | 18-29 m | 2120 | 62 |
| BCG | History | 32.1 | 18-29 m | 2120 | 62 |
| DTP1 | C or H <12 months | 90.3 | 18-29 m | 2120 | 62 |
| DTP1 | Card | 60.6 | 18-29 m | 2120 | 62 |
| DTP1 | Card or History | 90.9 | 18-29 m | 2120 | 62 |
| DTP1 | History | 30.3 | 18-29 m | 2120 | 62 |
| DTP3 | C or H <12 months | 72.9 | 18-29 m | 2120 | 62 |
| DTP3 | Card | 53.8 | 18-29 m | 2120 | 62 |
| DTP3 | Card or History | 74.3 | 18-29 m | 2120 | 62 |
| DTP3 | History | 20.4 | 18-29 m | 2120 | 62 |
| HepB1 | C or H <12 months | 90.3 | 18-29 m | 2120 | 62 |
| HepB1 | Card | 60.6 | 18-29 m | 2120 | 62 |
| HepB1 | Card or History | 90.9 | 18-29 m | 2120 | 62 |
| HepB1 | History | 30.3 | 18-29 m | 2120 | 62 |
| HepB3 | C or H <12 months | 72.9 | 18-29 m | 2120 | 62 |
| HepB3 | Card | 53.8 | 18-29 m | 2120 | 62 |
| HepB3 | Card or History | 74.3 | 18-29 m | 2120 | 62 |
| HepB3 | History | 20.4 | 18-29 m | 2120 | 62 |
| Hib1 | C or H <12 months | 90.3 | 18-29 m | 2120 | 62 |

| | | | | | |
|---|---|---|---|---|---|
| Hib1 | Card | 60.6 | 18-29 m | 2120 | 62 |
| Hib1 | Card or History | 90.9 | 18-29 m | 2120 | 62 |
| Hib1 | History | 30.3 | 18-29 m | 2120 | 62 |
| Hib3 | C or H <12 months | 72.9 | 18-29 m | 2120 | 62 |
| Hib3 | Card | 53.8 | 18-29 m | 2120 | 62 |
| Hib3 | Card or History | 74.3 | 18-29 m | 2120 | 62 |
| Hib3 | History | 20.4 | 18-29 m | 2120 | 62 |
| MCV1 | C or H <12 months | 73.6 | 18-29 m | 2120 | 62 |
| MCV1 | Card | 52.3 | 18-29 m | 2120 | 62 |
| MCV1 | Card or History | 79 | 18-29 m | 2120 | 62 |
| MCV1 | History | 26.6 | 18-29 m | 2120 | 62 |
| Pol1 | C or H <12 months | 89.8 | 18-29 m | 2120 | 62 |
| Pol1 | Card | 61.5 | 18-29 m | 2120 | 62 |
| Pol1 | Card or History | 90.3 | 18-29 m | 2120 | 62 |
| Pol1 | History | 28.8 | 18-29 m | 2120 | 62 |
| Pol3 | C or H <12 months | 62.4 | 18-29 m | 2120 | 62 |
| Pol3 | Card | 55.7 | 18-29 m | 2120 | 62 |
| Pol3 | Card or History | 63.8 | 18-29 m | 2120 | 62 |
| Pol3 | History | 8.1 | 18-29 m | 2120 | 62 |

## 2005 República Dominicana, Encuesta Nacional de Hogares de Propósitos Múltiples ENHOGAR 2006

| Vaccine | Confirmation method | Coverage | Age cohort | Sample | Cards seen |
|---|---|---|---|---|---|
| BCG | C or H <12 months | 96.1 | 12-23 m | 756 | 58 |
| BCG | Card | 68.3 | 12-23 m | 756 | 58 |
| BCG | Card or History | 97.4 | 12-23 m | 756 | 58 |
| BCG | History | 29.1 | 12-23 m | 756 | 58 |
| DTP1 | C or H <12 months | 90.4 | 12-23 m | 756 | 58 |
| DTP1 | Card | 67.9 | 12-23 m | 756 | 58 |
| DTP1 | Card or History | 94.8 | 12-23 m | 756 | 58 |
| DTP1 | History | 26.9 | 12-23 m | 756 | 58 |
| DTP3 | C or H <12 months | 67.8 | 12-23 m | 756 | 58 |
| DTP3 | Card | 60.1 | 12-23 m | 756 | 58 |
| DTP3 | Card or History | 68 | 12-23 m | 756 | 58 |
| DTP3 | History | 8 | 12-23 m | 756 | 58 |
| MCV1 | C or H <12 months | 65.7 | 12-23 m | 756 | 58 |
| MCV1 | Card | 45.1 | 12-23 m | 756 | 58 |
| MCV1 | Card or History | 69.1 | 12-23 m | 756 | 58 |
| MCV1 | History | 24 | 12-23 m | 756 | 58 |
| Pol1 | C or H <12 months | 94.9 | 12-23 m | 756 | 58 |
| Pol1 | Card | 67.5 | 12-23 m | 756 | 58 |
| Pol1 | Card or History | 96.3 | 12-23 m | 756 | 58 |
| Pol1 | History | 28.7 | 12-23 m | 756 | 58 |
| Pol3 | C or H <12 months | 68.5 | 12-23 m | 756 | 58 |
| Pol3 | Card | 59.6 | 12-23 m | 756 | 58 |
| Pol3 | Card or History | 71.5 | 12-23 m | 756 | 58 |
| Pol3 | History | 11.9 | 12-23 m | 756 | 58 |

## 2001 Encuesta Demográfica y de Salud 2002

| Vaccine | Confirmation method | Coverage | Age cohort | Sample | Cards seen |
|---|---|---|---|---|---|
| BCG | C or H <12 months | 93 | 12-23 m | 2184 | 50 |
| BCG | Card | 47.2 | 12-23 m | 2184 | 50 |
| BCG | Card or History | 93.5 | 12-23 m | 2184 | 50 |
| BCG | History | 46.3 | 12-23 m | 2184 | 50 |
| DTP1 | C or H <12 months | 92.2 | 12-23 m | 2184 | 50 |
| DTP1 | Card | 48.4 | 12-23 m | 2184 | 50 |
| DTP1 | Card or History | 94.5 | 12-23 m | 2184 | 50 |
| DTP1 | History | 46.2 | 12-23 m | 2184 | 50 |
| DTP3 | C or H <12 months | 51.9 | 12-23 m | 2184 | 50 |
| DTP3 | Card | 38.8 | 12-23 m | 2184 | 50 |
| DTP3 | Card or History | 56.4 | 12-23 m | 2184 | 50 |
| DTP3 | History | 17.6 | 12-23 m | 2184 | 50 |
| MCV1 | C or H <12 months | 75.4 | 12-23 m | 2184 | 50 |
| MCV1 | Card | 43.4 | 12-23 m | 2184 | 50 |
| MCV1 | Card or History | 88.3 | 12-23 m | 2184 | 50 |
| MCV1 | History | 44.9 | 12-23 m | 2184 | 50 |
| Pol1 | C or H <12 months | 90.1 | 12-23 m | 2184 | 50 |
| Pol1 | Card | 48.9 | 12-23 m | 2184 | 50 |
| Pol1 | Card or History | 92.1 | 12-23 m | 2184 | 50 |
| Pol1 | History | 43.2 | 12-23 m | 2184 | 50 |
| Pol3 | C or H <12 months | 39 | 12-23 m | 2184 | 50 |
| Pol3 | Card | 37.7 | 12-23 m | 2184 | 50 |
| Pol3 | Card or History | 44 | 12-23 m | 2184 | 50 |
| Pol3 | History | 6.3 | 12-23 m | 2184 | 50 |

# Dominican Republic - survey details

1999 Encuesta de Agrupación de Indicadores Múltiples (MICS-2000), 2001

| Vaccine | Confirmation method | Coverage | Age cohort | Sample | Cards seen |
|---|---|---|---|---|---|
| BCG | C or H <12 months | 93.4 | 12-23 m | 431 | 65 |
| BCG | Card | 60.3 | 12-23 m | 431 | 65 |
| BCG | Card or History | 93.7 | 12-23 m | 431 | 65 |
| BCG | History | 33.4 | 12-23 m | 431 | 65 |
| DTP1 | C or H <12 months | 89.9 | 12-23 m | 431 | 65 |
| DTP1 | Card | 60.5 | 12-23 m | 431 | 65 |
| DTP1 | Card or History | 92.5 | 12-23 m | 431 | 65 |
| DTP1 | History | 32 | 12-23 m | 431 | 65 |
| DTP3 | C or H <12 months | 58.8 | 12-23 m | 431 | 65 |
| DTP3 | Card | 49.3 | 12-23 m | 431 | 65 |
| DTP3 | Card or History | 61.7 | 12-23 m | 431 | 65 |
| DTP3 | History | 12.4 | 12-23 m | 431 | 65 |
| HepB3 | C or H <12 months | 28.6 | 12-23 m | 431 | 65 |
| HepB3 | Card | 31.4 | 12-23 m | 431 | 65 |
| HepB3 | Card or History | 31.4 | 12-23 m | 431 | 65 |
| HepB3 | History | 0 | 12-23 m | 431 | 65 |
| MCV1 | C or H <12 months | 73.3 | 12-23 m | 431 | 65 |
| MCV1 | Card | 53 | 12-23 m | 431 | 65 |
| MCV1 | Card or History | 80.2 | 12-23 m | 431 | 65 |
| MCV1 | History | 27.2 | 12-23 m | 431 | 65 |
| Pol1 | C or H <12 months | 89 | 12-23 m | 431 | 65 |
| Pol1 | Card | 59.6 | 12-23 m | 431 | 65 |
| Pol1 | Card or History | 90.6 | 12-23 m | 431 | 65 |
| Pol1 | History | 31 | 12-23 m | 431 | 65 |
| Pol3 | C or H <12 months | 56 | 12-23 m | 431 | 65 |
| Pol3 | Card | 47 | 12-23 m | 431 | 65 |
| Pol3 | Card or History | 59.1 | 12-23 m | 431 | 65 |
| Pol3 | History | 12.1 | 12-23 m | 431 | 65 |

1998 República Dominicana Encuesta Experimental de Demografía y Salud 1999

| Vaccine | Confirmation method | Coverage | Age cohort | Sample | Cards seen |
|---|---|---|---|---|---|
| BCG | Card <12 months | 88.4 | 12-23 m | 73 | 48 |
| BCG | Card or History | 88.4 | 12-23 m | 73 | 48 |
| DTP1 | Card <12 months | 97.1 | 12-23 m | 73 | 48 |
| DTP1 | Card or History | 97.1 | 12-23 m | 73 | 48 |
| DTP3 | Card <12 months | 54.4 | 12-23 m | 73 | 48 |
| DTP3 | Card or History | 62.4 | 12-23 m | 73 | 48 |
| MCV1 | Card <12 months | 61.4 | 12-23 m | 73 | 48 |
| MCV1 | Card or History | 82.6 | 12-23 m | 73 | 48 |
| Pol1 | Card <12 months | 94.3 | 12-23 m | 73 | 48 |
| Pol1 | Card or History | 95.1 | 12-23 m | 73 | 48 |
| Pol3 | Card <12 months | 36.9 | 12-23 m | 73 | 48 |
| Pol3 | Card or History | 39.7 | 12-23 m | 73 | 48 |

1997 República Dominicana Encuesta Experimental de Demografía y Salud 1999

| Vaccine | Confirmation method | Coverage | Age cohort | Sample | Cards seen |
|---|---|---|---|---|---|
| BCG | Card <12 months | 94.5 | 24-35 m | 119 | 48 |
| DTP1 | Card <12 months | 92.9 | 24-35 m | 119 | 48 |
| DTP3 | Card <12 months | 66.1 | 24-35 m | 119 | 48 |
| MCV1 | Card <12 months | 62.8 | 24-35 m | 119 | 48 |
| Pol1 | Card <12 months | 95 | 24-35 m | 119 | 48 |
| Pol3 | Card <12 months | 41.6 | 24-35 m | 119 | 48 |

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

# Dominican Republic

## 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 (%) |
|---|---|
| 2004 | 86 |
| 2005 | 75 |
| 2006 | 85 |
| 2007 | 85 |
| 2008 | 86 |
| 2009 | 86 |
| 2010 | 87 |
| 2011 | 90 |
| 2012 | 90 |
| 2013 | 90 |
| 2014 | 90 |
| 2015 | 90 |

[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.