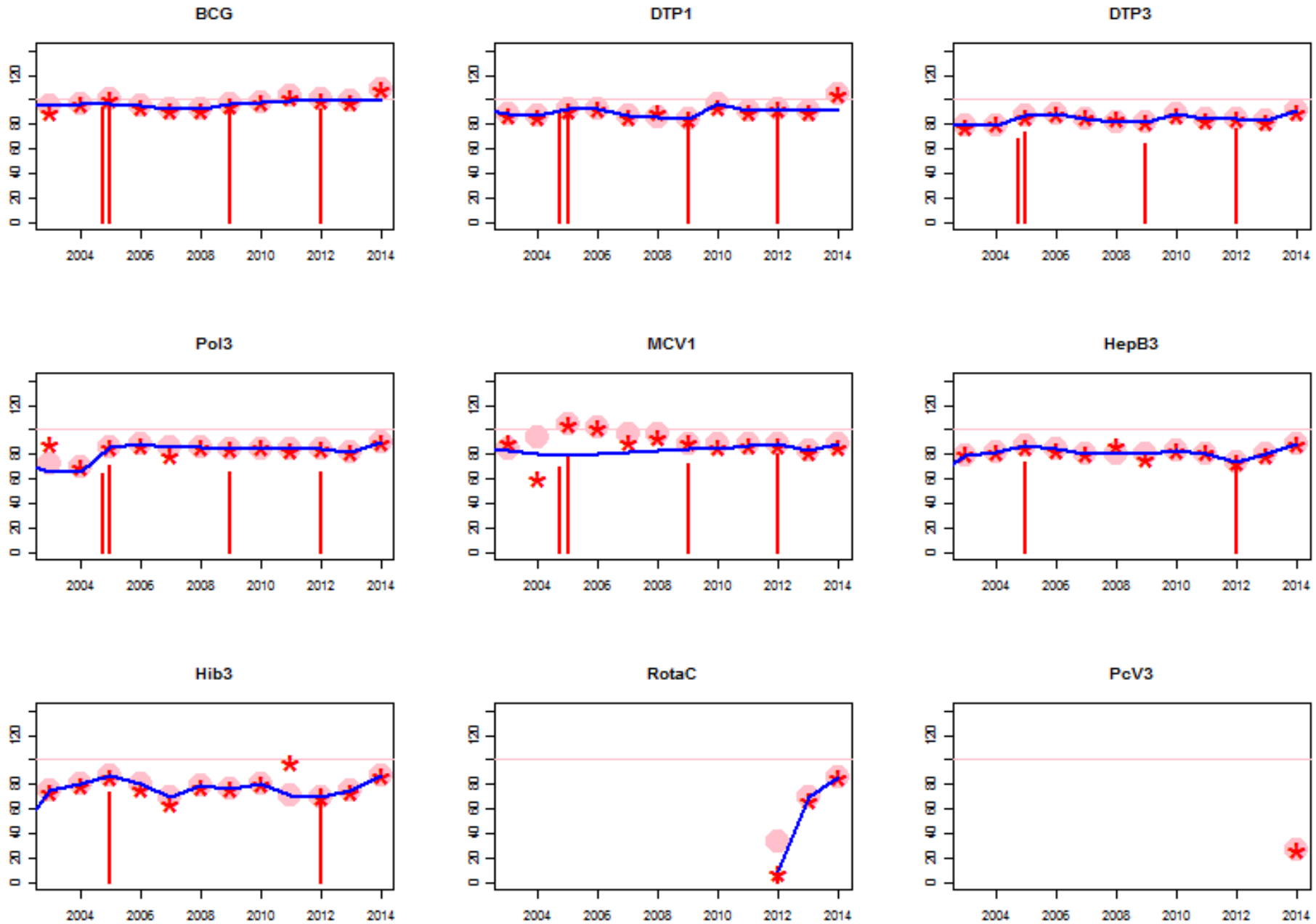
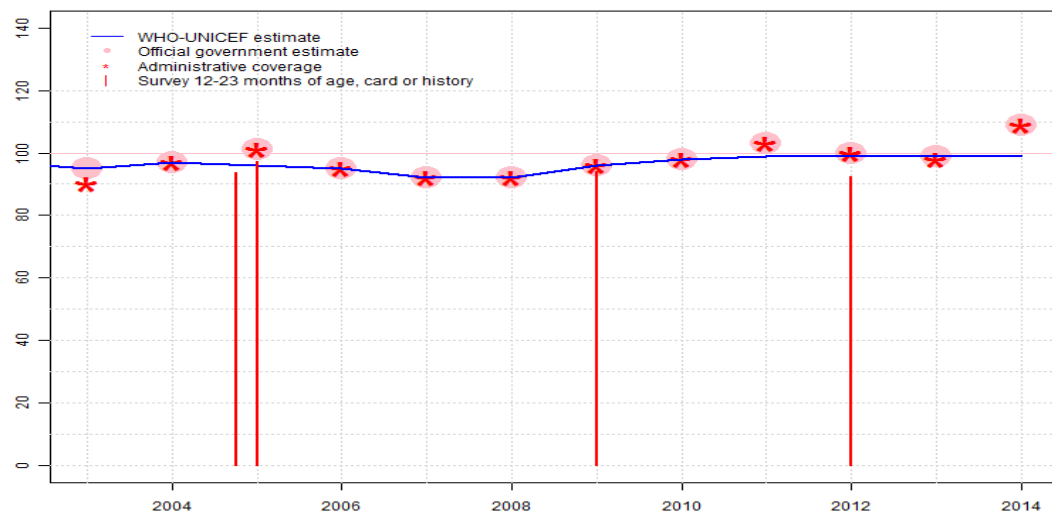


Dominican Republic: WHO and UNICEF estimates of immunization coverage: 2014 revision



# Dominican Republic - BCG

DOM - BCG



	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Estimate	95	97	96	95	92	92	96	98	103	100	99	109
Estimate GoC	●●●	●●●	●●	●●●	●●	●●●	●●●	●●●	●●	●●●	●●●	●●
Official	95	97	101	95	92	92	96	98	103	100	99	109
Administrative	90	97	101	95	92	92	96	98	103	100	98	109
Survey	NA	NA	*	NA	NA	NA	94.1	NA	NA	92.4	NA	NA

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

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

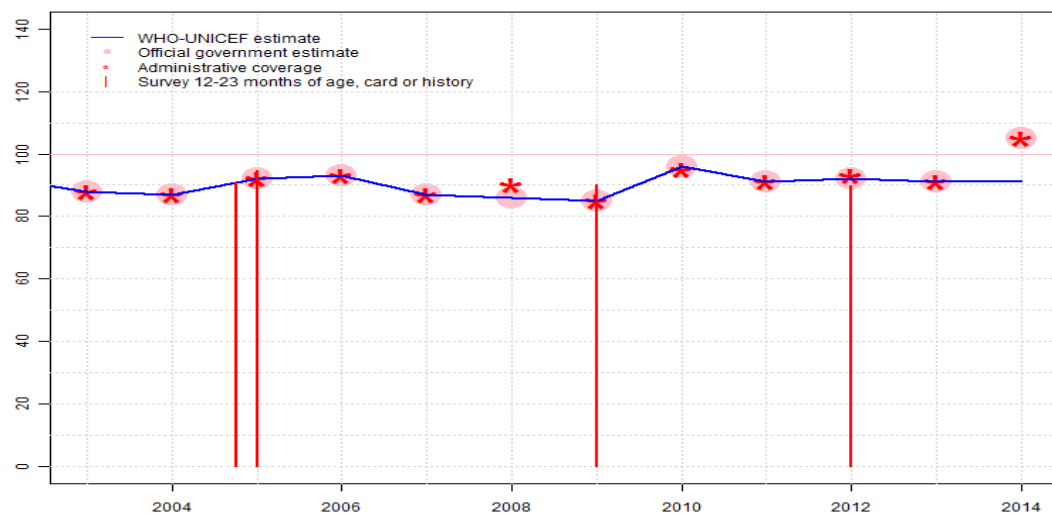
In all cases these estimates should be used with caution and should be assessed in light of the objective for which they are being used.

## Description:

- 2003: Estimate based on coverage reported by national government. GoC=R+ S+ D+
- 2004: Estimate based on coverage reported by national government. 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+ D+
- 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. Estimate of 99 percent changed from previous revision value of 98 percent. 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. WHO and UNICEF are aware of preliminary results of a 2014 Multiple Indicator Cluster Survey and await the final results. GoC=S+ D+

# Dominican Republic - DTP1

DOM - DTP1



	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Estimate	88	87	92	93	87	86	85	96	91	92	91	91
Estimate GoC	●●●	●●●	●●●	●●●	●●	●●●	●●●	●●●	●●●	●●●	●●●	●●
Official	88	87	92	93	87	86	85	96	91	92	91	105
Administrative	88	87	92	93	87	90	85	95	91	93	91	105
Survey	NA	NA	*	NA	NA	NA	90.3	NA	NA	89.8	NA	NA

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

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

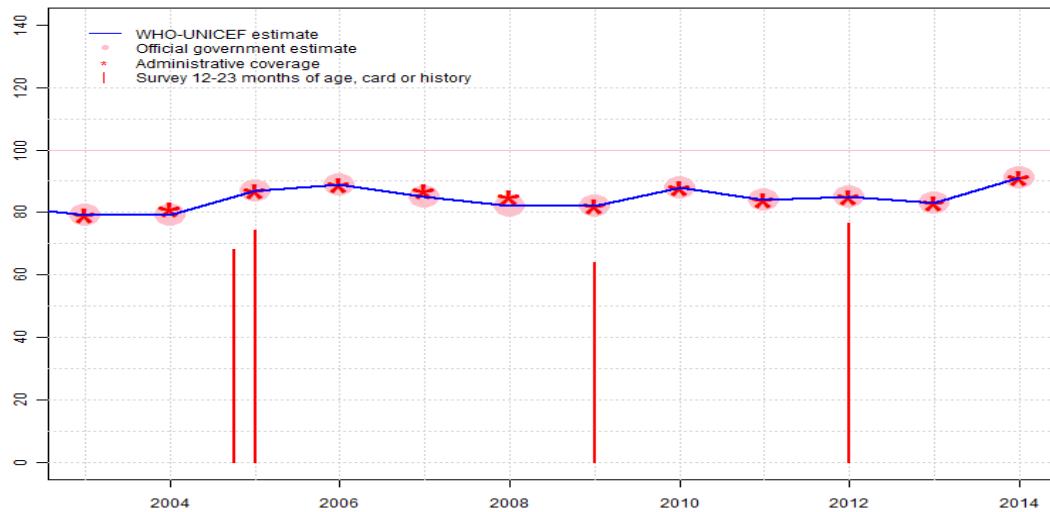
In all cases these estimates should be used with caution and should be assessed in light of the objective for which they are being used.

## Description:

- 2003: Estimate based on coverage reported by national government. GoC=R+ S+ D+
- 2004: Estimate based on coverage reported by national government. 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. Estimate of 86 percent changed from previous revision value of 90 percent. 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 extrapolation from data reported by national government. Reported data excluded. 105 percent greater than 100 percent. Reported data excluded. Change in reported coverage from 91 level to 105 percent. Increase in reported coverage reflects a decrease in the reported target population data. WHO and UNICEF are aware of preliminary results of a 2014 Multiple Indicator Cluster Survey and await the final results. GoC=S+ D+

# Dominican Republic - DTP3

DOM - DTP3



	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Estimate	79	79	87	89	85	82	82	88	84	85	83	91
Estimate GoC	●●●	●●●	●●●	●●●	●●	●●●	●●●	●●●	●●●	●●●	●●●	●●
Official	79	79	87	89	85	82	82	88	84	85	83	91
Administrative	79	81	87	89	87	85	82	88	84	85	83	91
Survey	NA	NA	*	NA	NA	NA	64.1	NA	NA	76.6	NA	NA

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

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

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

## Description:

- 2003: Estimate based on coverage reported by national government. GoC=R+ S+ D+
- 2004: Estimate based on coverage reported by national government. Estimate of 79 percent changed from previous revision value of 81 percent. 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 modified 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 modified 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. Estimate of 85 percent changed from previous revision value of 87 percent. GoC=R+ S+
- 2008: Estimate based on coverage reported by national government. Estimate of 82 percent changed from previous revision value of 85 percent. 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 modified 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 modified 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+

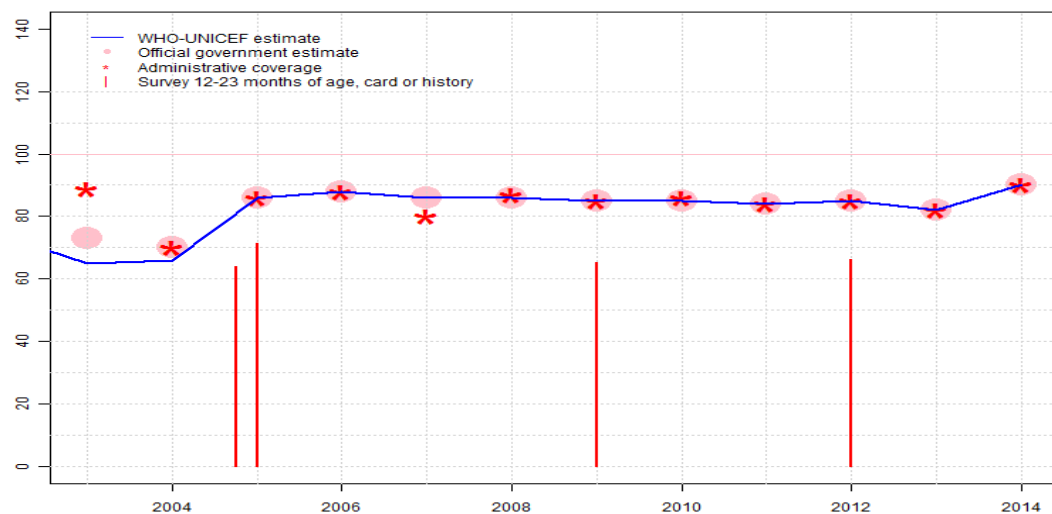
# Dominican Republic - DTP3

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2014: Estimate based on coverage reported by national government. Increase in reported coverage reflects a decrease in the reported target population data. WHO and UNICEF are aware of preliminary results of a 2014 Multiple Indicator Cluster Survey and await the final results. Preliminary survey results suggest lower coverage than reported. GoC=R+ D+

# Dominican Republic - Pol3

DOM - Pol3



	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Estimate	65	66	86	88	86	86	85	85	84	85	82	90
Estimate GoC	•	••	•••	•••	••	•••	•••	•••	•••	•••	•••	•••
Official	73	70	86	88	86	86	85	85	84	85	82	90
Administrative	89	70	86	88	80	87	85	86	84	85	82	90
Survey	NA	NA	*	NA	NA	NA	65.4	NA	NA	66.1	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: Reported data calibrated to 2001 and 2005 levels. Estimate of 65 percent changed from previous revision value of 73 percent. Estimate challenged by: D-
- 2004: Reported data calibrated to 2001 and 2005 levels. Estimate of 66 percent changed from previous revision value of 70 percent. 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 modified 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 modified 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. Estimate of 86 percent changed from previous revision value of 80 percent. GoC=R+ S+
- 2008: Estimate based on coverage reported by national government. Estimate of 86 percent changed from previous revision value of 87 percent. 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 modified 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. Estimate of 85 percent changed from previous revision value of 86 percent. 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 modified 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+

# Dominican Republic - Pol3

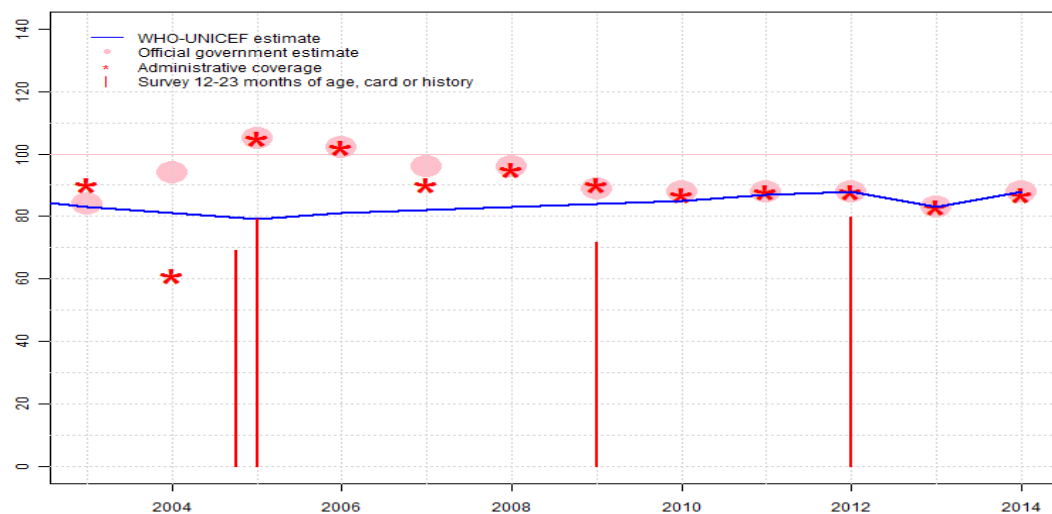
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D+

2014: Estimate based on coverage reported by national government. Increase in reported coverage reflects a decrease in the reported target population data. WHO and UNICEF are aware of preliminary results of a 2014 Multiple Indicator Cluster Survey and await the final results. GoC=R+ S+ D+

# Dominican Republic - MCV1

DOM - MCV1



	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Estimate	83	81	79	81	82	83	84	85	87	88	83	88
Estimate GoC	●	●	●	●	●	●	●	●	●	●●●	●●●	●●●
Official	84	94	105	102	96	96	89	88	88	88	83	88
Administrative	90	61	105	102	90	95	90	87	88	88	83	87
Survey	NA	NA	*	NA	NA	NA	71.7	NA	NA	79.9	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: Reported data calibrated to 2001 and 2005 levels. Reported data excluded. Fluctuating and inconsistent data suggest poor reporting. Estimate of 83 percent changed from previous revision value of 84 percent. Estimate challenged by: D-S-
- 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 of 81 percent changed from previous revision value of 79 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 of 82 percent changed from previous revision value of 79 percent. 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 of 83 percent changed from previous revision value of 79 percent. 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 of 84 percent changed from previous revision value of 79 percent. Estimate challenged by: S-
- 2010: Reported data calibrated to 2005 and 2012 levels. Reported data excluded. Estimate of 85 percent changed from previous revision value of 79 percent. Estimate challenged by: S-
- 2011: Reported data calibrated to 2005 and 2012 levels. Reported data excluded. Estimate of 87 percent changed from previous revision value of 79 percent.



# Dominican Republic - MCV1

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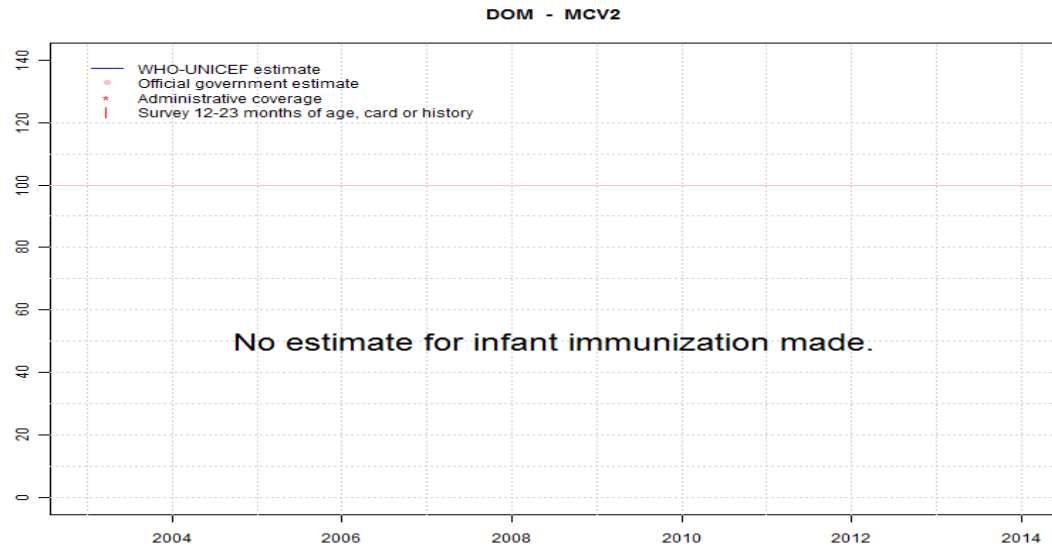
Estimate challenged by: S-

2012: Estimate based on coverage reported by national government supported by survey. Survey evidence of 80 percent based on 1 survey(s). Estimate of 88 percent changed from previous revision value of 79 percent. GoC=R+ S+ D+

2013: Estimate based on coverage reported by national government. Estimate of 83 percent changed from previous revision value of 79 percent. 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. WHO and UNICEF are aware of preliminary results of a 2014 Multiple Indicator Cluster Survey and await the final results. GoC=R+ S+ D+

# Dominican Republic - MCV2



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

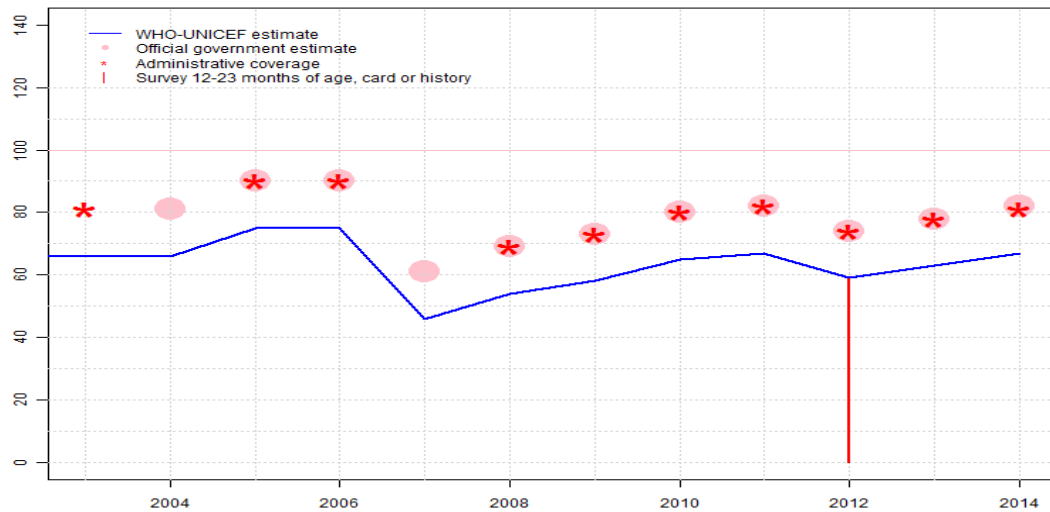
The WHO and UNICEF estimates of national immunization coverage (wuenic) are based on data and information that are of varying, and, in some instances, unknown quality. Beginning with the 2011 revision we describe the grade of confidence (GoC) we have in these estimates. As there is no underlying probability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

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

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

# Dominican Republic - HepBB

DOM - HepBB



	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Estimate	66	66	75	75	46	54	58	65	67	59	63	67
Estimate GoC	•	•	•	•	•	•	•	•	•	•	•	••
Official	NA	81	90	90	61	69	73	80	82	74	78	82
Administrative	81	NA	90	90	NA	69	73	80	82	74	78	81
Survey	NA	NA	NA	NA	NA	NA	NA	NA	NA	58.7	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.

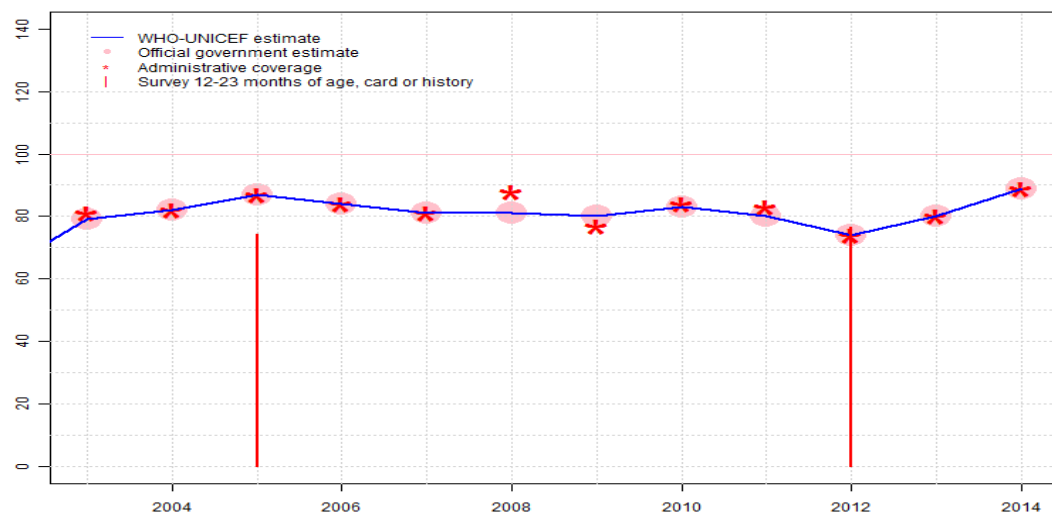
In all cases these estimates should be used with caution and should be assessed in light of the objective for which they are being used.

## Description:

- 2003: Reported data calibrated to 2012 levels. Estimate of 66 percent changed from previous revision value of 81 percent. Estimate challenged by: D-
- 2004: Reported data calibrated to 2012 levels. Estimate of 66 percent changed from previous revision value of 81 percent. GoC=No accepted empirical data
- 2005: Reported data calibrated to 2012 levels. Estimate of 75 percent changed from previous revision value of 90 percent. Estimate challenged by: D-
- 2006: Reported data calibrated to 2012 levels. Estimate of 75 percent changed from previous revision value of 90 percent. Estimate challenged by: D-
- 2007: Reported data calibrated to 2012 levels. Estimate of 46 percent changed from previous revision value of 61 percent. GoC=No accepted empirical data
- 2008: Reported data calibrated to 2012 levels. Estimate of 54 percent changed from previous revision value of 69 percent. Estimate challenged by: D-
- 2009: Reported data calibrated to 2012 levels. Estimate of 58 percent changed from previous revision value of 73 percent. Estimate challenged by: D-
- 2010: Reported data calibrated to 2012 levels. Estimate of 65 percent changed from previous revision value of 80 percent. Estimate challenged by: D-
- 2011: Reported data calibrated to 2012 levels. Estimate of 67 percent changed from previous revision value of 82 percent. 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 of 59 percent changed from previous revision value of 74 percent. Estimate challenged by: D-R-
- 2013: Reported data calibrated to 2012 levels. Estimate of 63 percent changed from previous revision value of 78 percent. Estimate challenged by: D-
- 2014: Reported data calibrated to 2012 levels. Increase in reported coverage reflects a decrease in the reported target population data. WHO and UNICEF are aware of preliminary results of a 2014 Multiple Indicator Cluster Survey and await the final results. GoC=S+ D+

# Dominican Republic - HepB3

DOM - HepB3



	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Estimate	79	82	87	84	81	81	80	83	80	74	80	89
Estimate GoC	●●●	●●●	●●●	●●●	●●	●●	●●	●●●	●●●	●●●	●●●	●●
Official	79	82	87	84	81	81	80	83	80	74	80	89
Administrative	81	82	87	84	81	88	77	84	83	74	80	89
Survey	NA	NA	74.3	NA	NA	NA	NA	NA	NA	76.6	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.

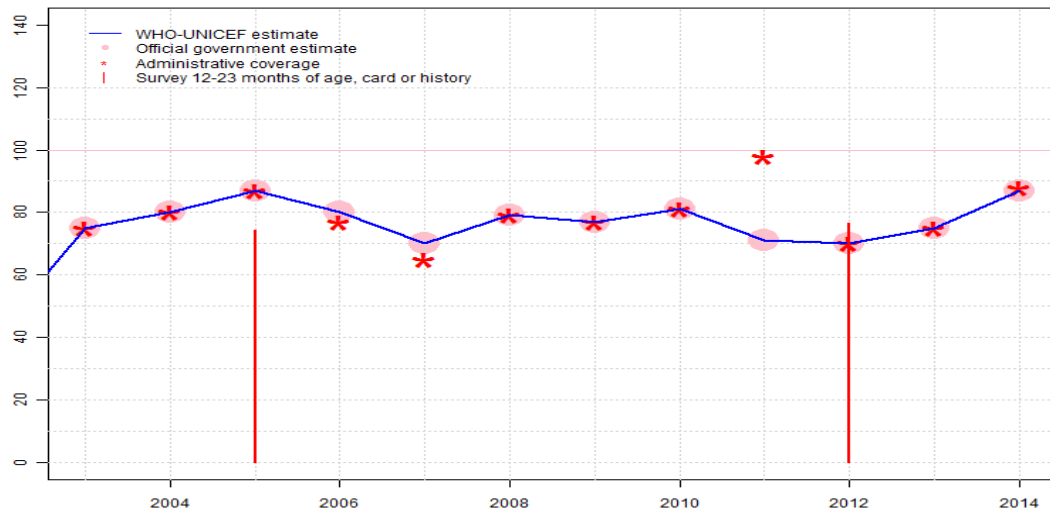
In all cases these estimates should be used with caution and should be assessed in light of the objective for which they are being used.

## Description:

- 2003: Estimate based on reported data. GoC=R+ S+ D+
- 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 modified 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. Estimate of 81 percent changed from previous revision value of 88 percent. GoC=R+ D+
- 2009: Estimate based on coverage reported by national government. Estimate of 80 percent changed from previous revision value of 85 percent. GoC=R+ D+
- 2010: Estimate based on coverage reported by national government. Estimate of 83 percent changed from previous revision value of 84 percent. 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 modified 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. WHO and UNICEF are aware of preliminary results of a 2014 Multiple Indicator Cluster Survey and await the final results. GoC=R+ D+

# Dominican Republic - Hib3

DOM - Hib3



	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Estimate	75	80	87	80	70	79	77	81	71	70	75	87
Estimate GoC	●●●	●●●	●●●	●●●	●●	●●	●●	●●●	●	●●●	●●●	●●●
Official	75	80	87	80	70	79	77	81	71	70	75	87
Administrative	75	80	87	77	65	79	77	81	98	70	75	88
Survey	NA	NA	74.3	NA	NA	NA	NA	NA	NA	76.6	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.

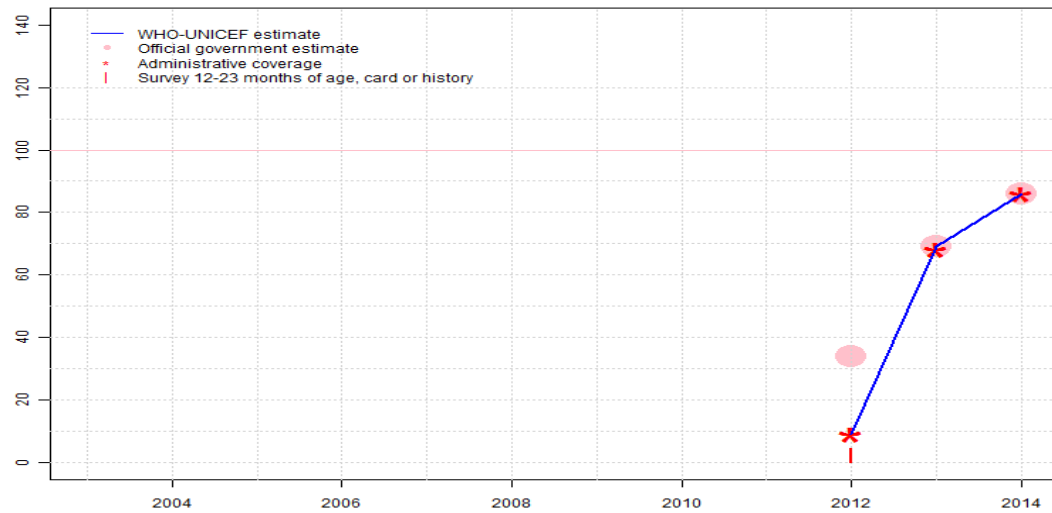
In all cases these estimates should be used with caution and should be assessed in light of the objective for which they are being used.

## Description:

- 2003: Estimate based on reported data. Estimate of 75 percent changed from previous revision value of 79 percent. GoC=R+ S+ D+
- 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 modified 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. Estimate of 80 percent changed from previous revision value of 77 percent. 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. Estimate of 70 percent changed from previous revision value of 65 percent. 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 modified 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. WHO and UNICEF are aware of preliminary results of a 2014 Multiple Indicator Cluster Survey and await the final results. GoC=R+ S+ D+

# Dominican Republic - RotaC

DOM - RotaC



	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Estimate	NA	NA	NA	NA	NA	NA	NA	NA	NA	9	69	86
Estimate GoC	NA	NA	NA	NA	NA	NA	NA	NA	NA	●	●	●
Official	NA	NA	NA	NA	NA	NA	NA	NA	NA	34	69	86
Administrative	NA	NA	NA	NA	NA	NA	NA	NA	NA	9	68	86
Survey	NA	NA	NA	NA	NA	NA	NA	NA	NA	4.4	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.

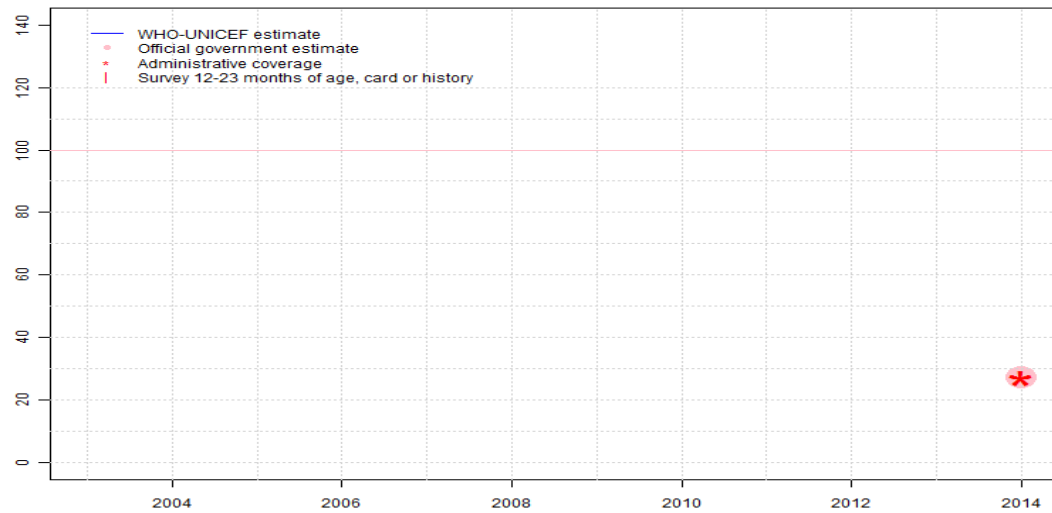
In all cases these estimates should be used with caution and should be assessed in light of the objective for which they are being used.

## Description:

- 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 of 9 percent changed from previous revision value of 20 percent. Estimate challenged by: S-
- 2013: Estimate based on coverage reported by national government. Estimate of 69 percent changed from previous revision value of 68 percent. 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. WHO and UNICEF are aware of preliminary results of a 2014 Multiple Indicator Cluster Survey and await the final results. Estimate challenged by: S-

# Dominican Republic - PcV3

DOM - PcV3



	2003	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014
Estimate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	27
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	27
Administrative	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	27
Survey	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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

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

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

## Description:

2014: Estimate based on coverage reported by national government. Increase in reported coverage reflects a decrease in the reported target population data. WHO and UNICEF are aware of preliminary results of a 2014 Multiple Indicator Cluster Survey and await the final results. 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



# Dominican Republic - survey details

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

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	-	-

## 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	-

## 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

# Dominican Republic - survey details

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](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 (%)
2003	84
2004	86
2005	75
2006	85
2007	85
2008	86
2009	86
2010	87
2011	90
2012	90
2013	90
2014	90

<sup>1</sup> 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