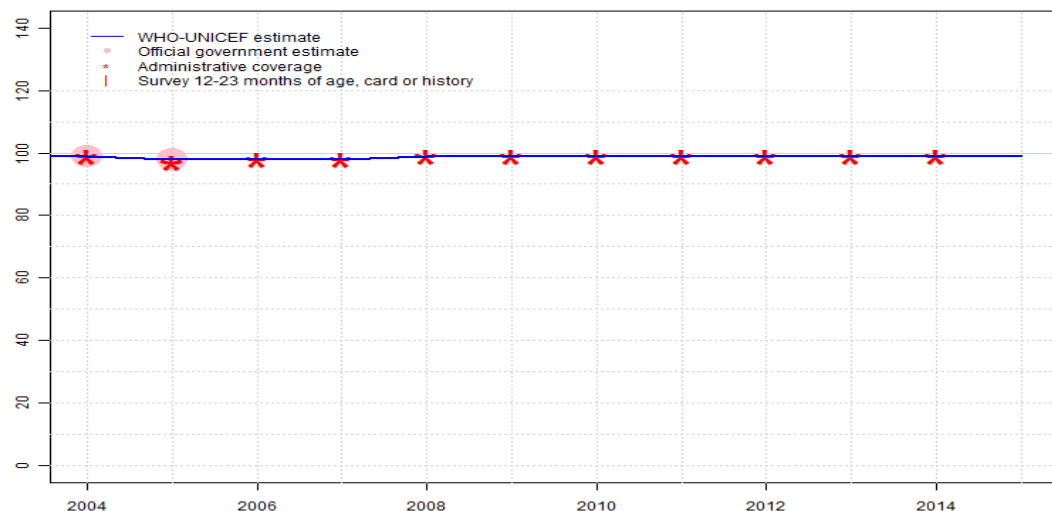


# Singapore - BCG

SGP - BCG



	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Estimate	99	98	98	98	99	99	99	99	99	99	99	99
Estimate GoC	●	●	●	●	●	●	●	●	●	●	●	●
Official	99	98	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Administrative	99	97	98	98	99	99	99	99	99	99	99	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.

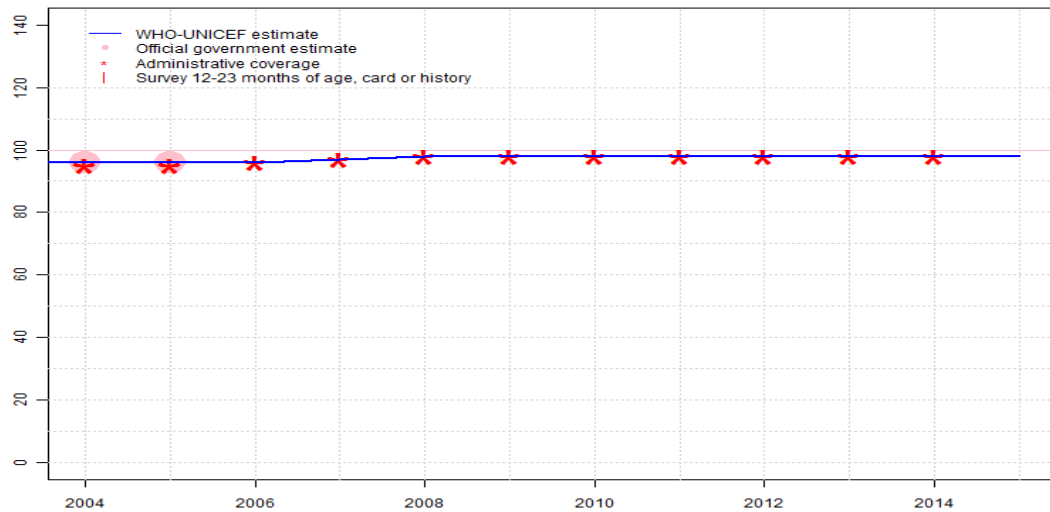
In all cases these estimates should be used with caution and should be assessed in light of the objective for which they are being used.

## Description:

- 2004: Estimate based on coverage reported by national government. Coverage is based on notification of vaccination services maintained by the National Immunization Registry. Estimate challenged by: D-
- 2005: Estimate based on coverage reported by national government. Coverage is based on notification of vaccination services maintained by the National Immunization Registry. Estimate challenged by: D-
- 2006: Estimate based on reported administrative data. Coverage is based on notification of vaccination services maintained by the National Immunization Registry. Estimate challenged by: D-
- 2007: Estimate based on reported administrative data. Coverage is based on notification of vaccination services maintained by the National Immunization Registry. Estimate challenged by: D-
- 2008: Estimate based on reported administrative data. Coverage is based on notification of vaccination services maintained by the National Immunization Registry. Estimate challenged by: D-
- 2009: Estimate based on reported administrative data. Coverage is based on notification of vaccination services maintained by the National Immunization Registry. Estimate challenged by: D-
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- 2011: Estimate based on reported administrative data. Coverage is based on notification of vaccination services maintained by the National Immunization Registry. Estimate challenged by: D-
- 2012: Estimate based on reported administrative data. Coverage is based on notification of vaccination services maintained by the National Immunization Registry. Estimate challenged by: D-
- 2013: Estimate based on reported administrative data. Coverage is based on notification of vaccination services maintained by the National Immunization Registry. Estimate challenged by: D-
- 2014: Estimate based on reported administrative data. Estimate challenged by: D-
- 2015: Estimate based on extrapolation from data reported by national government. No nationally representative household survey within the last 5 years. WHO and UNICEF recommend a high-quality survey to confirm reported levels of coverage. GoC=No accepted empirical data

# Singapore - DTP1

SGP - DTP1



	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Estimate	96	96	96	97	98	98	98	98	98	98	98	98
Estimate GoC	•	•	•	•	•	•	•	•	•	•	•	•
Official	96	96	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Administrative	95	95	96	97	98	98	98	98	98	98	98	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.

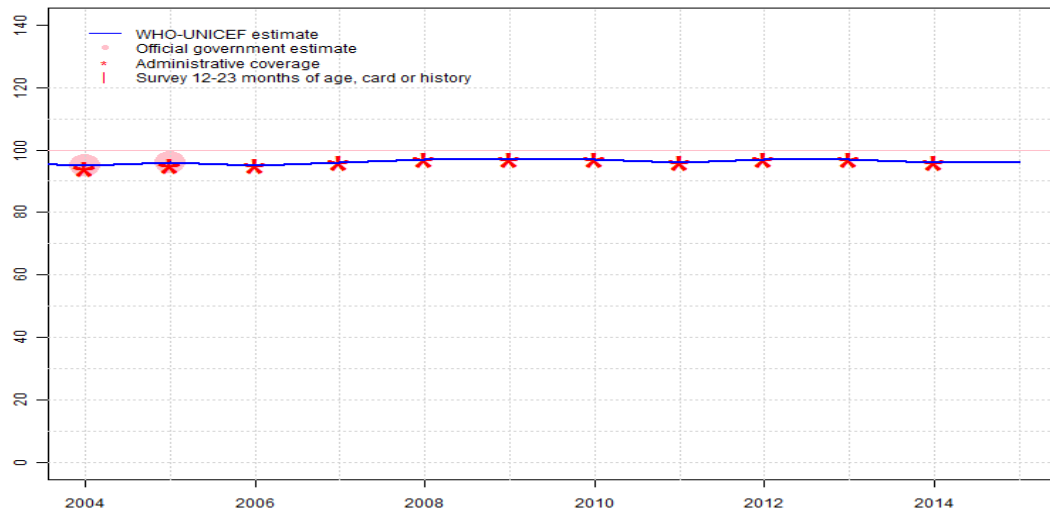
In all cases these estimates should be used with caution and should be assessed in light of the objective for which they are being used.

## Description:

- 2004: Estimate based on coverage reported by national government. Coverage is based on notification of vaccination services maintained by the National Immunization Registry. Estimate challenged by: D-
- 2005: Estimate based on coverage reported by national government. Coverage is based on notification of vaccination services maintained by the National Immunization Registry. Estimate challenged by: D-
- 2006: Estimate based on reported administrative data. Coverage is based on notification of vaccination services maintained by the National Immunization Registry. Estimate challenged by: D-
- 2007: Estimate based on reported administrative data. Coverage is based on notification of vaccination services maintained by the National Immunization Registry. Estimate challenged by: D-
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- 2012: Estimate based on reported administrative data. Coverage is based on notification of vaccination services maintained by the National Immunization Registry. Estimate challenged by: D-
- 2013: Estimate based on reported administrative data. Coverage is based on notification of vaccination services maintained by the National Immunization Registry. Estimate challenged by: D-
- 2014: Estimate based on reported administrative data. Estimate challenged by: D-
- 2015: Estimate based on extrapolation from data reported by national government. No nationally representative household survey within the last 5 years. WHO and UNICEF recommend a high-quality survey to confirm reported levels of coverage. GoC=No accepted empirical data

# Singapore - DTP3

SGP - DTP3



	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Estimate	95	96	95	96	97	97	97	96	97	97	96	96
Estimate GoC	•	•	•	•	•	•	•	•	•	•	•	•
Official	95	96	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Administrative	94	95	95	96	97	97	97	96	97	97	96	NA
Survey	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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

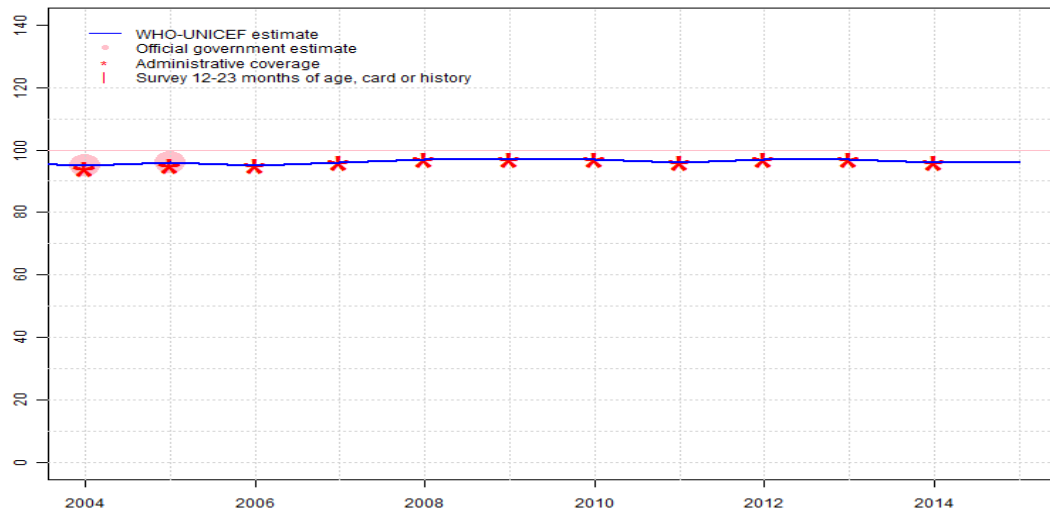
- Estimate is supported by reported data [R+], coverage recalculated with an independent denominator from the World Population Prospects: 2015 revision from the UN Population Division (D+), and at least one supporting survey within 2 years [S+]. While well supported, the estimate still carries a risk 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. Coverage is based on notification of vaccination services maintained by the National Immunization Registry. Estimate challenged by: D-
- 2005: Estimate based on coverage reported by national government. Coverage is based on notification of vaccination services maintained by the National Immunization Registry. Estimate challenged by: D-
- 2006: Estimate based on reported administrative data. Coverage is based on notification of vaccination services maintained by the National Immunization Registry. Estimate challenged by: D-
- 2007: Estimate based on reported administrative data. Coverage is based on notification of vaccination services maintained by the National Immunization Registry. Estimate challenged by: D-
- 2008: Estimate based on reported administrative data. Coverage is based on notification of vaccination services maintained by the National Immunization Registry. Estimate challenged by: D-
- 2009: Estimate based on reported administrative data. Coverage is based on notification of vaccination services maintained by the National Immunization Registry. Estimate challenged by: D-
- 2010: Estimate based on reported administrative data. Coverage is based on notification of vaccination services maintained by the National Immunization Registry. Estimate challenged by: D-
- 2011: Estimate based on reported administrative data. Coverage is based on notification of vaccination services maintained by the National Immunization Registry. Estimate challenged by: D-
- 2012: Estimate based on reported administrative data. Coverage is based on notification of vaccination services maintained by the National Immunization Registry. Estimate challenged by: D-
- 2013: Estimate based on reported administrative data. Coverage is based on notification of vaccination services maintained by the National Immunization Registry. Estimate challenged by: D-
- 2014: Estimate based on reported administrative data. Estimate of 96 percent changed from previous revision value of 97 percent. Estimate challenged by: D-
- 2015: Estimate based on extrapolation from data reported by national government. No nationally representative household survey within the last 5 years. WHO and UNICEF recommend a high-quality survey to confirm reported levels of coverage. GoC=No accepted empirical data

SGP - Pol3



	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Estimate	95	96	95	96	97	97	97	96	97	97	96	96
Estimate GoC	•	•	•	•	•	•	•	•	•	•	•	•
Official	95	96	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Administrative	94	95	95	96	97	97	97	96	97	97	96	NA
Survey	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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

- Estimate is supported by reported data [R+], coverage recalculated with an independent denominator from the World Population Prospects: 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.

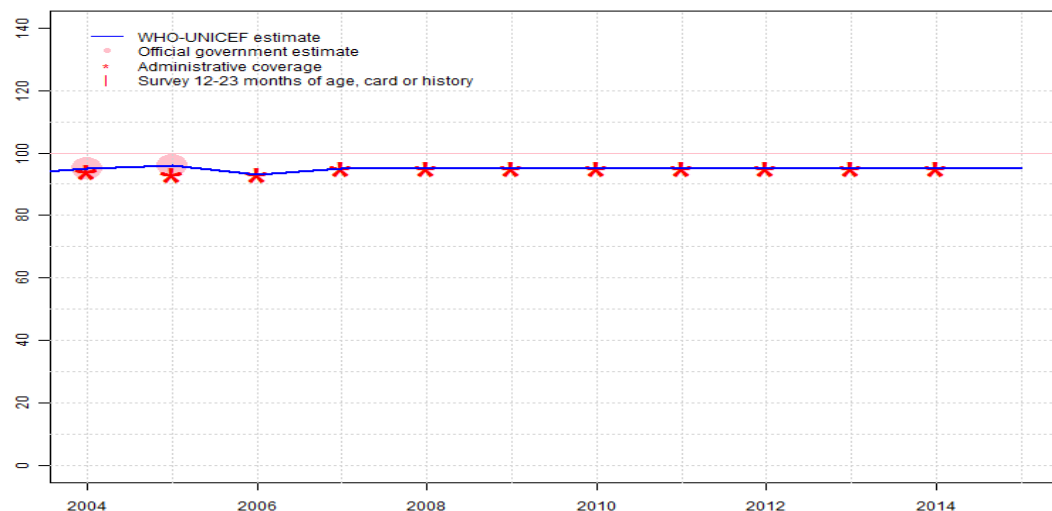
In all cases these estimates should be used with caution and should be assessed in light of the objective for which they are being used.

## Description:

- 2004: Estimate based on coverage reported by national government. Coverage is based on notification of vaccination services maintained by the National Immunization Registry. Estimate challenged by: D-
- 2005: Estimate based on coverage reported by national government. Coverage is based on notification of vaccination services maintained by the National Immunization Registry. Estimate challenged by: D-
- 2006: Estimate based on reported administrative data. Coverage is based on notification of vaccination services maintained by the National Immunization Registry. Estimate challenged by: D-
- 2007: Estimate based on reported administrative data. Coverage is based on notification of vaccination services maintained by the National Immunization Registry. Estimate challenged by: D-
- 2008: Estimate based on reported administrative data. Coverage is based on notification of vaccination services maintained by the National Immunization Registry. Estimate challenged by: D-
- 2009: Estimate based on reported administrative data. Coverage is based on notification of vaccination services maintained by the National Immunization Registry. Estimate challenged by: D-
- 2010: Estimate based on reported administrative data. Coverage is based on notification of vaccination services maintained by the National Immunization Registry. Estimate challenged by: D-
- 2011: Estimate based on reported administrative data. Coverage is based on notification of vaccination services maintained by the National Immunization Registry. Estimate challenged by: D-
- 2012: Estimate based on reported administrative data. Coverage is based on notification of vaccination services maintained by the National Immunization Registry. Estimate challenged by: D-
- 2013: Estimate based on reported administrative data. Coverage is based on notification of vaccination services maintained by the National Immunization Registry. Estimate challenged by: D-
- 2014: Estimate based on reported administrative data. Estimate of 96 percent changed from previous revision value of 97 percent. Estimate challenged by: D-
- 2015: Estimate based on extrapolation from data reported by national government. No nationally representative household survey within the last 5 years. WHO and UNICEF recommend a high-quality survey to confirm reported levels of coverage. GoC=No accepted empirical data

# Singapore - MCV1

SGP - MCV1



	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Estimate	95	96	93	95	95	95	95	95	95	95	95	95
Estimate GoC	•	•	•	•	•	•	•	•	•	•	•	•
Official	95	96	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Administrative	94	93	93	95	95	95	95	95	95	95	95	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.

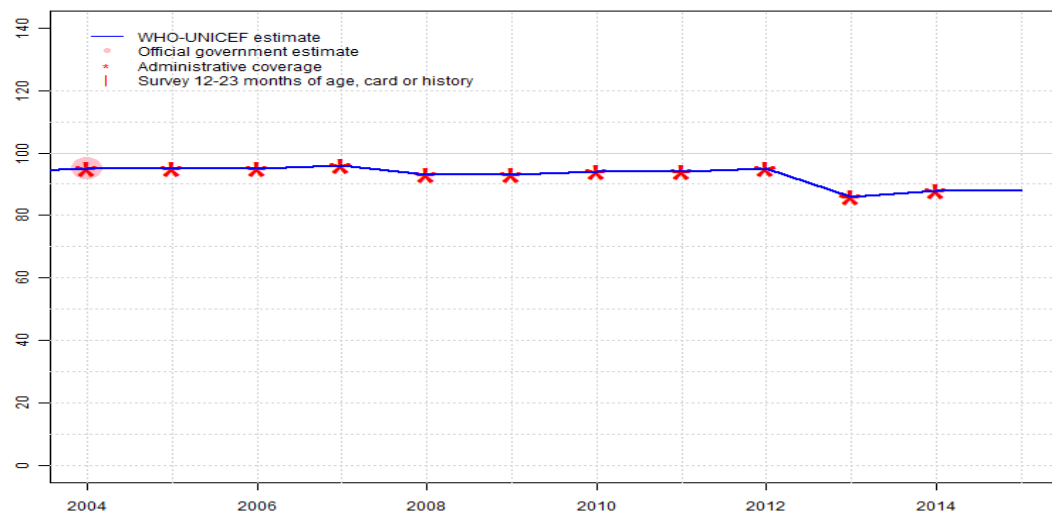
## Description:

- 2004: Estimate based on coverage reported by national government. Coverage is based on notification of vaccination services maintained by the National Immunization Registry. Estimate challenged by: D-
- 2005: Estimate based on coverage reported by national government. Coverage is based on notification of vaccination services maintained by the National Immunization Registry. Estimate challenged by: D-
- 2006: Estimate based on reported administrative data. Coverage is based on notification of vaccination services maintained by the National Immunization Registry. Estimate challenged by: D-
- 2007: Estimate based on reported administrative data. Coverage is based on notification of vaccination services maintained by the National Immunization Registry. Estimate challenged by: D-
- 2008: Estimate based on reported administrative data. Coverage is based on notification of vaccination services maintained by the National Immunization Registry. Estimate challenged by: D-
- 2009: Estimate based on reported administrative data. Coverage is based on notification of vaccination services maintained by the National Immunization Registry. Estimate challenged by: D-
- 2010: Estimate based on reported administrative data. Coverage is based on notification of vaccination services maintained by the National Immunization Registry. Estimate challenged by: D-
- 2011: Estimate based on reported administrative data. Coverage is based on notification of vaccination services maintained by the National Immunization Registry. Estimate challenged by: D-
- 2012: Estimate based on reported administrative data. Coverage is based on notification of vaccination services maintained by the National Immunization Registry. Estimate challenged by: D-
- 2013: Estimate based on reported administrative data. Coverage is based on notification of vaccination services maintained by the National Immunization Registry. Estimate challenged by: D-
- 2014: Estimate based on reported administrative data. Estimate challenged by: D-
- 2015: Estimate based on extrapolation from data reported by national government. No nationally representative household survey within the last 5 years. WHO and UNICEF recommend a high-quality survey to confirm reported levels of coverage. GoC=No accepted empirical data



# Singapore - MCV2

SGP - MCV2



	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Estimate	95	95	95	96	93	93	94	94	95	86	88	88
Estimate GoC	••	••	••	••	••	•	•	•	•	•	•	•
Official	95	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Administrative	95	95	95	96	93	93	94	94	95	86	88	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.

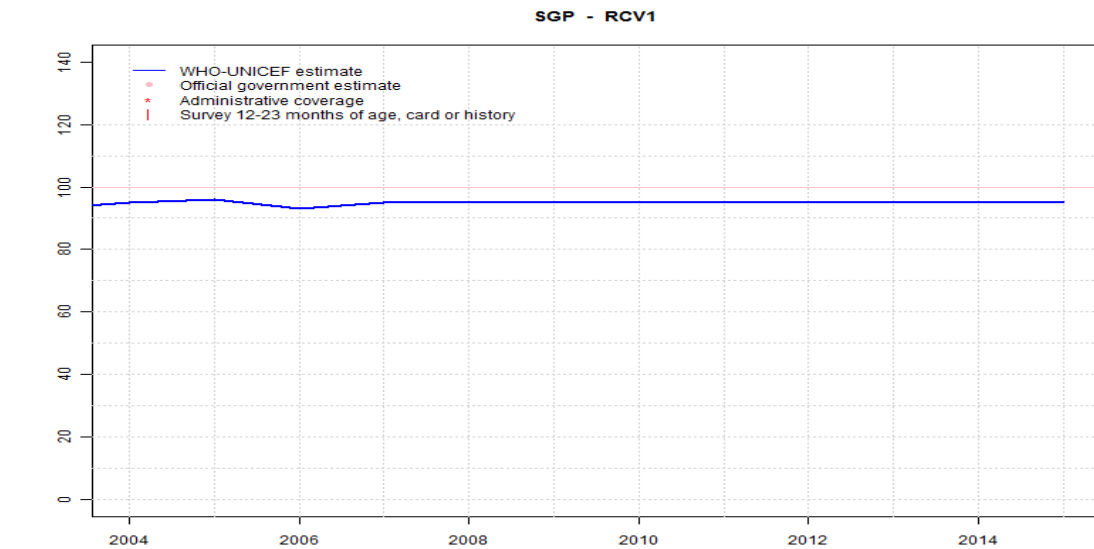
In all cases these estimates should be used with caution and should be assessed in light of the objective for which they are being used.

## Description:

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

- 2004: Estimate based on coverage reported by national government. Coverage is based on notification of vaccination services maintained by the National Immunization Registry. GoC=R+ D+
- 2005: Estimate based on reported administrative estimate. Coverage is based on notification of vaccination services maintained by the National Immunization Registry. GoC=R+ D+
- 2006: Estimate based on reported administrative estimate. Coverage is based on notification of vaccination services maintained by the National Immunization Registry. GoC=R+ D+
- 2007: Estimate based on reported administrative estimate. Coverage is based on notification of vaccination services maintained by the National Immunization Registry. GoC=R+ D+
- 2008: Estimate based on reported administrative estimate. Coverage is based on notification of vaccination services maintained by the National Immunization Registry. GoC=R+ D+
- 2009: Estimate based on reported administrative estimate. Coverage is based on notification of vaccination services maintained by the National Immunization Registry. Estimate challenged by: D-
- 2010: Estimate based on reported administrative estimate. Coverage is based on notification of vaccination services maintained by the National Immunization Registry. Estimate challenged by: D-
- 2011: Estimate based on reported administrative estimate. Coverage is based on notification of vaccination services maintained by the National Immunization Registry. Estimate challenged by: D-
- 2012: Estimate based on reported administrative estimate. Coverage is based on notification of vaccination services maintained by the National Immunization Registry. Estimate challenged by: D-
- 2013: Estimate based on reported administrative estimate. Coverage is based on notification of vaccination services maintained by the National Immunization Registry. Estimate of 86 percent changed from previous revision value of 95 percent. Estimate challenged by: D-
- 2014: Estimate based on reported administrative estimate. Estimate of 88 percent changed from previous revision value of 95 percent. Estimate challenged by: D-
- 2015: Estimate based on extrapolation from data reported by national government. No nationally representative household survey within the last 5 years. WHO and UNICEF recommend a high-quality survey to confirm reported levels of coverage. GoC=No accepted empirical data

# Singapore - RCV1



	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Estimate	95	96	93	95	95	95	95	95	95	95	95	95
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.

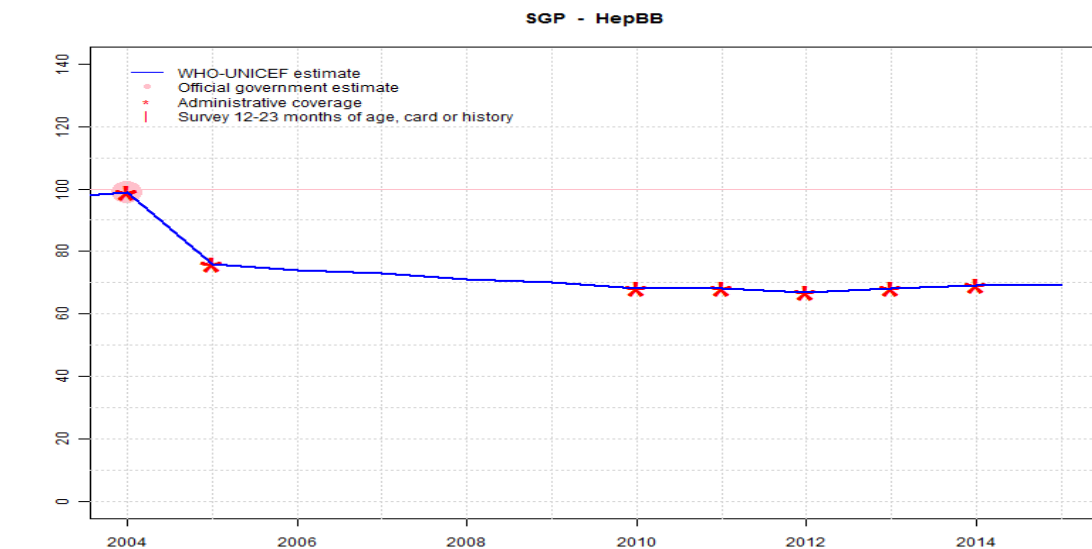
## Description:

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. Coverage is based on notification of vaccination services maintained by the National Immunization Registry. Estimate challenged by: D-
- 2005: Estimate based on estimated MCV1. Coverage is based on notification of vaccination services maintained by the National Immunization Registry. Estimate challenged by: D-
- 2006: Estimate based on estimated MCV1. Coverage is based on notification of vaccination services maintained by the National Immunization Registry. Estimate challenged by: D-
- 2007: Estimate based on estimated MCV1. Coverage is based on notification of vaccination services maintained by the National Immunization Registry. Estimate challenged by: D-
- 2008: Estimate based on estimated MCV1. Coverage is based on notification of vaccination services maintained by the National Immunization Registry. Estimate challenged by: D-
- 2009: Estimate based on estimated MCV1. Coverage is based on notification of vaccination services maintained by the National Immunization Registry. Estimate challenged by: D-
- 2010: Estimate based on estimated MCV1. Coverage is based on notification of vaccination services maintained by the National Immunization Registry. Estimate challenged by: D-
- 2011: Estimate based on estimated MCV1. Coverage is based on notification of vaccination services maintained by the National Immunization Registry. Estimate challenged by: D-
- 2012: Estimate based on estimated MCV1. Coverage is based on notification of vaccination services maintained by the National Immunization Registry. Estimate challenged by: D-
- 2013: Estimate based on estimated MCV1. Coverage is based on notification of vaccination services maintained by the National Immunization Registry. Estimate challenged by: D-
- 2014: Estimate based on estimated MCV1. Estimate challenged by: D-
- 2015: Estimate based on estimated MCV1. No nationally representative household survey within the last 5 years. WHO and UNICEF recommend a high-quality survey to confirm reported levels of coverage. GoC=No accepted empirical data



# Singapore - HepBB



	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Estimate	99	76	74	73	71	70	68	68	67	68	69	69
Estimate GoC	•	•	•	•	•	•	•	•	•	•	•	•
Official	99	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Administrative	99	76	NA	NA	NA	NA	68	68	67	68	69	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.

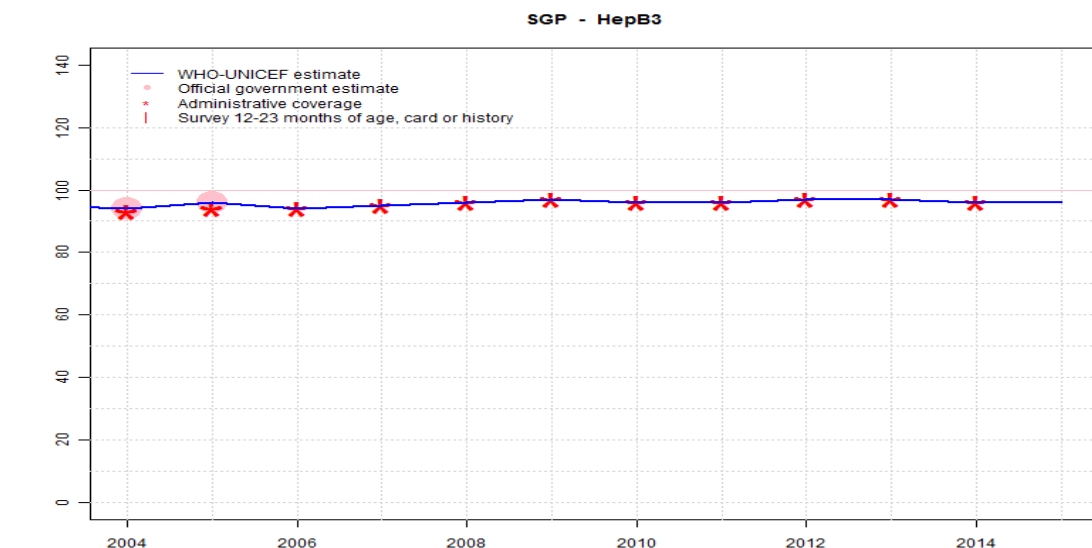
- Estimate is supported by reported data [R+], coverage recalculated with an independent denominator from the World Population Prospects: 2015 revision from the UN Population Division (D+), and at least one supporting survey within 2 years [S+]. While well supported, the estimate still carries a risk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

- 2004: Estimate based on coverage reported by national government. Coverage is based on notification of vaccination services maintained by the National Immunization Registry. Estimate challenged by: D-
- 2005: Estimate based on reported administrative estimate. Coverage is based on notification of vaccination services maintained by the National Immunization Registry. Estimate challenged by: D-
- 2006: Estimate based on interpolation between reported values. Coverage is based on notification of vaccination services maintained by the National Immunization Registry. GoC=No accepted empirical data
- 2007: Estimate based on interpolation between reported values. Coverage is based on notification of vaccination services maintained by the National Immunization Registry. GoC=No accepted empirical data
- 2008: Estimate based on interpolation between reported values. Coverage is based on notification of vaccination services maintained by the National Immunization Registry. GoC=No accepted empirical data
- 2009: Estimate based on interpolation between reported values. Coverage is based on notification of vaccination services maintained by the National Immunization Registry. GoC=No accepted empirical data
- 2010: Estimate based on reported administrative estimate. Coverage is based on notification of vaccination services maintained by the National Immunization Registry. Estimate challenged by: D-
- 2011: Estimate based on reported administrative estimate. Coverage is based on notification of vaccination services maintained by the National Immunization Registry. Estimate challenged by: D-
- 2012: Estimate based on reported administrative estimate. Coverage is based on notification of vaccination services maintained by the National Immunization Registry. Estimate challenged by: D-
- 2013: Estimate based on reported administrative estimate. Coverage is based on notification of vaccination services maintained by the National Immunization Registry. Estimate of 68 percent changed from previous revision value of 67 percent. Estimate challenged by: D-
- 2014: Estimate based on reported administrative estimate. Estimate of 69 percent changed from previous revision value of 67 percent. Estimate challenged by: D-
- 2015: Estimate based on extrapolation from data reported by national government. No nationally representative household survey within the last 5 years. WHO and UNICEF recommend a high-quality survey to confirm reported levels of coverage. GoC=No accepted empirical data

# Singapore - HepB3



	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Estimate	94	96	94	95	96	97	96	96	97	97	96	96
Estimate GoC	●	●	●	●	●	●	●	●	●	●	●	●
Official	94	96	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Administrative	93	94	94	95	96	97	96	96	97	97	96	NA
Survey	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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

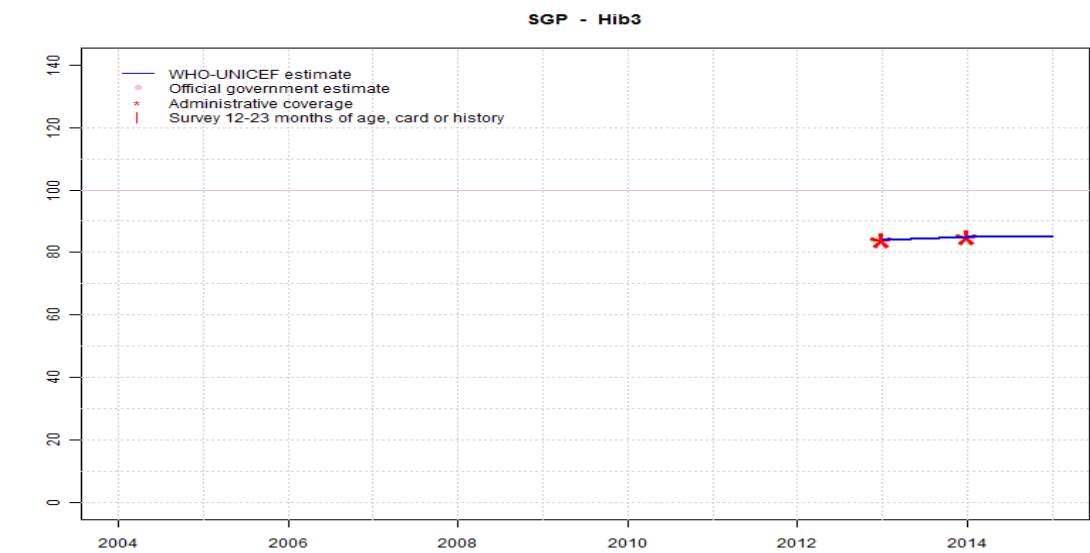
- Estimate is supported by reported data [R+], coverage recalculated with an independent denominator from the World Population Prospects: 2015 revision from the UN Population Division (D+), and at least one supporting survey within 2 years [S+]. While well supported, the estimate still carries a risk 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. Coverage is based on notification of vaccination services maintained by the National Immunization Registry. Estimate challenged by: D-
- 2005: Estimate based on coverage reported by national government. Coverage is based on notification of vaccination services maintained by the National Immunization Registry. Estimate challenged by: D-
- 2006: Estimate based on reported administrative data. Coverage is based on notification of vaccination services maintained by the National Immunization Registry. Estimate challenged by: D-
- 2007: Estimate based on reported administrative data. Coverage is based on notification of vaccination services maintained by the National Immunization Registry. Estimate challenged by: D-
- 2008: Estimate based on reported administrative data. Coverage is based on notification of vaccination services maintained by the National Immunization Registry. Estimate challenged by: D-
- 2009: Estimate based on reported administrative data. Coverage is based on notification of vaccination services maintained by the National Immunization Registry. Estimate challenged by: D-
- 2010: Estimate based on reported administrative data. Coverage is based on notification of vaccination services maintained by the National Immunization Registry. Estimate challenged by: D-
- 2011: Estimate based on reported administrative data. Coverage is based on notification of vaccination services maintained by the National Immunization Registry. Estimate challenged by: D-
- 2012: Estimate based on reported administrative data. Coverage is based on notification of vaccination services maintained by the National Immunization Registry. Estimate challenged by: D-
- 2013: Estimate based on reported administrative data. Coverage is based on notification of vaccination services maintained by the National Immunization Registry. Estimate challenged by: D-
- 2014: Estimate based on reported administrative data. Estimate of 96 percent changed from previous revision value of 97 percent. Estimate challenged by: D-
- 2015: Estimate based on extrapolation from data reported by national government. No nationally representative household survey within the last 5 years. WHO and UNICEF recommend a high-quality survey to confirm reported levels of coverage. GoC=No accepted empirical data

# Singapore - Hib3



	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Estimate	NA	NA	NA	NA	NA	NA	NA	NA	NA	84	85	85
Estimate GoC	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	84	85	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.

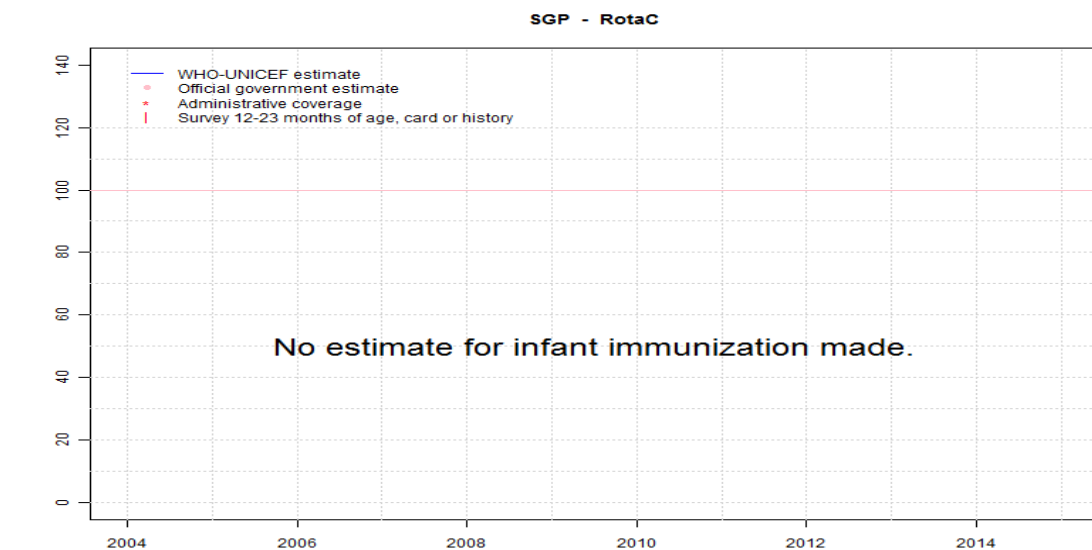
- Estimate is supported by reported data [R+], coverage recalculated with an independent denominator from the World Population Prospects: 2015 revision from the UN Population Division (D+), and at least one supporting survey within 2 years [S+]. While well supported, the estimate still carries a risk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

- 2013: Estimate based on reported administrative estimate. Coverage is based on notification of vaccination services maintained by the National Immunization Registry. Hib vaccine introduced in 2013. Estimate challenged by: D-
- 2014: Estimate based on reported administrative estimate. Estimate challenged by: D-
- 2015: Estimate based on extrapolation from data reported by national government. No nationally representative household survey within the last 5 years. WHO and UNICEF recommend a high-quality survey to confirm reported levels of coverage. GoC=No accepted empirical data

# Singapore - RotaC



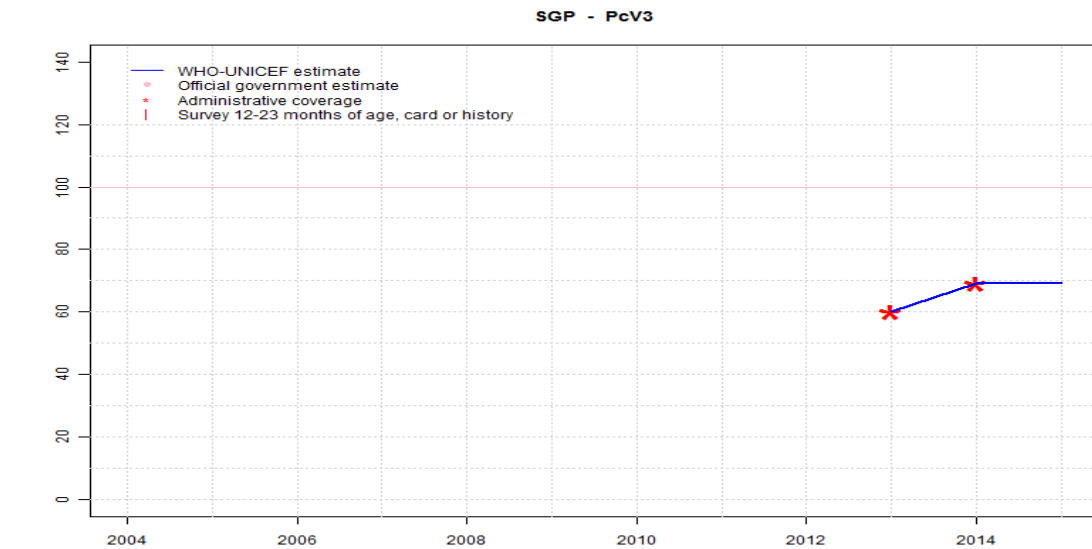
	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Estimate	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Estimate GoC	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Official	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Administrative	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA
Survey	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA	NA

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.

# Singapore - PcV3



	2004	2005	2006	2007	2008	2009	2010	2011	2012	2013	2014	2015
Estimate	NA	NA	NA	NA	NA	NA	NA	NA	NA	60	69	69
Estimate GoC	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	60	69	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:

- 2013: Estimate based on reported administrative estimate. Coverage is based on notification of vaccination services maintained by the National Immunization Registry. Estimate challenged by: D-
- 2014: Estimate based on reported administrative estimate. Estimate challenged by: D-
- 2015: Estimate based on extrapolation from data reported by national government. No nationally representative household survey within the last 5 years. WHO and UNICEF recommend a high-quality survey to confirm reported levels of coverage. GoC=No accepted empirical data

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)