

National Partnership  
Agreement on  
Essential Vaccines

1 April 2009 –  
31 March 2010  
Performance Report

*Steering Committee  
for the Review of  
Government  
Service Provision*

March 2011

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**Steering Committee for the  
Review of Government  
Service Provision**

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Mr Paul McClintock AO  
Chairman  
COAG Reform Council  
Level 24, 6 O'Connell Street  
SYDNEY NSW 2000

Dear Mr McClintock

In accordance with the request from the COAG Reform Council, I am pleased to submit to you the Steering Committee's report for first cycle of the *National Partnership Agreement on Essential Vaccines*.

This report has been prepared in accordance with the requirements outlined in the COAG Reform Council's *Matrix of performance information: National Partnership Agreement on Essential Vaccines*, January 2011.

This report was produced with the assistance of Australian, State and Territory Government health departments. The Steering Committee would like to record its appreciation for the efforts of all those involved in the development of this report.

Yours sincerely



Gary Banks AO  
Chairman

31 March 2011

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# This Report

The Steering Committee for the Review of Government Service Provision was requested by the COAG Reform Council (CRC) to collate information relevant to the performance benchmarks associated with reward payments in the *National Partnership Agreement on Essential Vaccines*.

The CRC requested the Steering Committee to provide information in accordance with the CRC's *Matrix of performance information: National Partnership Agreement on Essential Vaccines*, January 2011.

To facilitate the CRC's work, this report contains the following information:

- background and roles and responsibilities of various parties in National Partnership Agreement performance reporting
- performance reporting requirements for the *National Partnership Agreement on Essential Vaccines*
- indicator specifications and summaries of data quality
- performance data.

The original data quality statements submitted by the data provider are also included in this report.



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# Steering Committee

This Report was produced under the direction of the Steering Committee for the Review of Government Service Provision (SCRGSP). The Steering Committee comprises the following current members:

Mr Gary Banks AO	Chairman	Productivity Commission
Mr Ron Perry	Aust. Govt.	Department of Prime Minister and Cabinet
Ms Sue Vroombout	Aust. Govt.	The Treasury
Mr David de Carvalho	Aust. Govt.	Department of Finance and Deregulation
Ms Liz Develin	NSW	Department of Premier and Cabinet
Mr Kevin Cosgriff	NSW	Department of Treasury
Mr Simon Kent	Vic	Department of the Premier and Cabinet
Mr Tony Bates	Vic	Department of Treasury and Finance
Ms Amanda Scanlon	Qld	Department of the Premier and Cabinet
Ms Janelle Thurlby	Qld	Department of Treasury
Mr Warren Hill	WA	Department of the Premier and Cabinet
Mr David Christmas	WA	Department of Treasury and Finance
Mr Chris McGowan	SA	Department of the Premier and Cabinet
Mr David Reynolds	SA	Department of Treasury and Finance
Ms Rebekah Burton	Tas	Department of Premier and Cabinet
Ms Pam Davoren	ACT	Chief Minister's Department
Ms Jenny Coccetti	NT	Department of the Chief Minister
Mr Tony Stubbin	NT	NT Treasury
Mr Trevor Sutton		Australian Bureau of Statistics
Mr David Kalisch		Australian Institute of Health and Welfare

People who also served on the Steering Committee during the production of this Report include:

Mr John O'Connell	Qld	Department of Treasury
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# National Partnership Agreement on Essential Vaccines

## About this report

### Background to National Partnership reporting

In November 2008, the Council of Australian Governments (COAG) endorsed a new Intergovernmental Agreement on Federal Financial Relations (IGA) (COAG 2009a). The Ministerial Council for Federal Financial Relations (MCFRR) has general oversight of the operations of the IGA (COAG 2009b, para. A4(a)).

The IGA establishes a new form of payment — National Partnership (NP) payments — to fund specific projects and to facilitate and/or reward states and territories that deliver on nationally significant reforms.

The IGA specifies that the Commonwealth can provide the following NP payments:

- project payments to the states and territories to deliver specific projects where they support national objectives
- facilitation payments in advance of the implementation of reform, in recognition of the costs of undertaking the reform
- incentives payments to provide a reward to jurisdictions that deliver agreed reform progress or continuous improvement (COAG, 2009b para. E19(a)–(c)).

The agreements underpinning each NP incentive payment are required to set out the milestones and performance benchmarks that must be achieved for each jurisdiction to be eligible for an incentive payment (COAG, 2009b, para. C20).

The IGA also included six National Agreements (NAs), which contain the objectives and outcomes for each sector, and clarify the respective roles and responsibilities of the Commonwealth and the states and territories in the delivery of services. Five of the NAs are associated with a national Specific Purpose

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Payment (SPP) that can provide funding to the states and territories for the sector covered by the NA.

## **National Partnership reporting roles and responsibilities**

### *Role of the COAG Reform Council*

The IGA (COAG 2009b) states that:

The [CRC] will be the independent assessor of whether pre-determined milestones and performance benchmarks have been achieved before an incentive payment to reward nationally significant reforms or service delivery improvements under a National Partnership reward payment is made. [para. C19]

In order to assist the CRC discharge this function, the IGA provides that ‘the CRC may draw on existing subject experts or commission technical experts when an assessment of performance is required.’ [para. C21]

The IGA also provides for the parties to the NP to be consulted for a month before the CRC makes its assessment on the incentive payments. [para. C22]

### *Role of the Steering Committee*

The Steering Committee has three areas of potential involvement with NP reporting:

- as part of its NA role, providing information on NPs to the CRC to the extent that they support the objectives in NAs (COAG 2009b, para C5(c)).
- as a result of direct reference to the Steering Committee in a NP or federal financial relations documents
- to support the CRC in its role assessing and reporting on NPs with reward funding (COAG 2009b, para C19).

In April 2010, the CRC requested that the Steering Committee collate the performance information for the *National Partnership Agreement on Essential Vaccines* (Essential Vaccines NP) (COAG 2009c).

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## **The National Partnership Agreement on Essential Vaccines**

The objective of the Essential Vaccines NP is to improve the health and well-being of Australians through the cost-effective delivery of the National Immunisation Program (COAG 2009c, para 14).

The Essential Vaccines NP is intended to contribute to the following outcomes:

- minimise the incidence of major vaccine preventable diseases in Australia
- maintain and where possible increase immunisation coverage rates for vulnerable groups and, in particular, minimise disparities between Indigenous and non-Indigenous Australians
- all eligible Australians are able to access high quality and free essential vaccines through the National Immunisation Program in a timely manner
- increase community understanding and support for the public health benefits of immunisation (COAG 2009c, para 16).

### **Performance reporting**

Under the Essential Vaccines NP, the CRC is required to prepare annual assessment reports on an ongoing basis.

The CRC has requested the Steering Committee to collate performance information for the indicators associated with reward payments for the Essential Vaccines NP, and provide it to the CRC within one month of receiving data from the data provider. The performance benchmarks associated with reward payments are:

1. Maintaining or increasing vaccine coverage for Indigenous Australians.
2. Maintaining or increasing coverage in agreed areas of low immunisation coverage.
3. Maintaining or decreasing wastage and leakage.
4. Maintaining or increasing vaccination coverage for four year olds.

The CRC has prepared a set of documents that establish NP processes and scope.

- A Matrix of Performance Information (performance matrix) is prepared for each NP, setting out the CRC's overview of the NP, relevant elements of the

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assessment and reporting framework, and the measures of improvement and performance benchmarks (CRC unpublished (a)).

- The National Partnerships with Reward Funding: Assessment Framework (assessment framework) sets out process and timeframes for all reward NPs (CRC unpublished (b)).

The timetable for the Essential Vaccines NP in the assessment framework (prepared in August 2010) has been superseded by the timetable included in the performance matrix (prepared in March 2011).

Data for this report are in respect of the period 1 April 2009 to 31 March 2010, with the exception of the performance benchmark for wastage and leakage, for which data are for the period 1 July 2009 to 31 March 2010 (as quantitative data were not available prior to 1 July 2009).

This report also contains comments by the Steering Committee on the quality of reported data, based on data quality statements completed by the data provider. The original data quality statements are also attached.

### *Reporting timetable*

For this cycle of reporting, the timeframes set out in the March 2011 version of the CRC's performance matrix (CRC unpublished (a)) specify:

- Department of Health and Ageing [DoHA] to provide data to the Steering Committee by 28 February 2011
- Steering Committee to provide report to CRC by 31 March 2011
- CRC to report to COAG by 30 June 2011.

For the second and subsequent reporting cycles:

- Department of Health and Ageing [DoHA] to provide data to the Steering Committee by 30 April (ie, one month after the end of the reporting period)
- Steering Committee to provide report to CRC by 31 May
- CRC to report to COAG by 31 August.

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## Performance benchmark 1 — Maintaining or increasing vaccine coverage for Indigenous Australians

Performance benchmark:	Maintaining or increasing vaccine coverage for Indigenous Australians
Measure:	<p>The proportion of Indigenous Australian children who are fully vaccinated, as defined in the <u>Australian Childhood Immunisation Register (ACIR)</u>.</p> <p>The measure is defined as:</p> <ul style="list-style-type: none"><li>• <i>Numerator</i> — the number of Indigenous Australian children reported as fully immunised as defined in the ACIR at <math>12 \leq 15</math> months, <math>24 \leq 27</math> months and <math>60 &lt; 63</math> months</li><li>• <i>Denominator</i> — total number of Indigenous Australian children as registered in ACIR aged <math>12 \leq 15</math> months, <math>24 \leq 27</math> months and <math>60 \leq 63</math> months registered on the ACIR</li></ul> <p>and is expressed as a <i>percentage</i></p> <p>'Maintaining or increasing' is defined as the coverage rate for at least two of the three age cohorts being equal to or greater than:</p> <ul style="list-style-type: none"><li>• the baseline for the equivalent age cohort, or</li><li>• 92.5 per cent (even if the annual coverage rate has fallen from the previous year).</li></ul> <p><i>A child is fully immunised when they are up-to-date with the standard vaccination schedule for their age or are on a suitable catch-up program based on the National Immunisation Program (NIP) schedule as defined in the ACIR.</i></p>
Data source:	<i>Numerator and denominator</i> — <u>Australian Childhood Immunisation Register (ACIR)</u>
Data provider:	DoHA
Data availability:	1 April 2009 to 31 March 2010
Cross tabulations:	State and Territory, by: <ul style="list-style-type: none"><li>• Age cohort (<math>12 \leq 15</math> months, <math>24 \leq 27</math> months, <math>60 \leq 63</math> months)</li></ul>

**Table 1 Proportion of Indigenous children who are fully vaccinated, by age cohort (per cent)<sup>a, b</sup>**

	<i>NSW</i>	<i>Vic</i>	<i>Qld</i>	<i>WA</i>	<i>SA</i>	<i>Tas</i>	<i>ACT</i>	<i>NT</i>	<i>Aust</i>
<b>Baseline<sup>c</sup></b>									
Aged 12 ≤ 15 months	84.0	84.2	84.8	76.7	77.8	91.0	87.3	87.3	83.7
Aged 24 ≤ 27 months	91.2	90.0	91.5	84.9	88.6	93.2	88.0	93.7	90.6
Aged 60 ≤ 63 months	67.0	67.8	78.8	70.8	64.3	77.2	55.6	83.7	74.1
<b>Assessment period (1 April 2009 – 31 March 2010)</b>									
Aged 12 ≤ 15 months	86.8	85.2	85.4	75.9	79.0	89.9	91.2	87.6	84.5
Aged 24 ≤ 27 months	91.2	92.9	91.1	83.0	89.5	93.9	94.1	93.1	90.3
Aged 60 ≤ 63 months	77.9	80.5	79.1	73.7	67.1	79.1	86.4	86.9	78.5

<sup>a</sup> A child is fully immunised when they are up-to-date with the standard vaccination schedule for their age or are on a suitable catch-up program based on the NIP schedule as defined in the ACIR. <sup>b</sup> Indigenous status (Aboriginal or Torres Strait Islander indicator) reported by encounter or Medicare update. <sup>c</sup> The baseline is the lowest State and Territory coverage rate from the previous three assessment periods, where the assessment periods are calculated from 1 April to 31 March.

Source: DoHA (unpublished) Australian Childhood Immunisation Register.



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### **Box 1      Comment on Data Quality**

The DQS for this indicator has been prepared by DoHA and is included in its original form in the section in this report titled 'Data Quality Statement'. Key points from the DQS are summarised below.

- The data provide relevant information on the proportion of Indigenous children in the three age groups who are fully immunised, by State and Territory.
- Data from the Australian Child Immunisation Register (ACIR) are available quarterly. A minimum three-month lag period is allowed for late notification of immunisations to ACIR. Data are available for the reporting period of 1 April 2009 to 31 March 2010.
- Data are reported using the ACIR definition of fully-immunised children: 'children who have received all age appropriate immunisations for diphtheria, tetanus, pertussis, hepatitis B, poliomyelitis, Haemophilus influenzae type b, measles, mumps and rubella'.
- Vaccination coverage rates calculated using ACIR data may under-estimate actual vaccination rates, because of under-reporting by immunisation providers. The extent of any under-reporting has not been assessed (although the wastage and leakage calculation (performance benchmark 3) includes an adjustment factor of 1.03 to account for under-reporting to ACIR).
- Disaggregation by State and Territory is based on postcode of residence of the child as recorded on ACIR. As children may receive vaccinations in locations other than where they live, these data do not necessarily reflect the location in which services were received.
- ACIR is considered to have high levels of Indigenous identification (estimated to be 95 per cent in 2005).

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## Performance benchmark 2 — Maintaining or increasing vaccine coverage in agreed areas of low immunisation coverage

Performance benchmark: Maintaining or increasing coverage in agreed areas of low immunisation coverage

Measure: Proportion of Australian children resident in an area of low immunisation coverage that are reported as fully immunised

The measure is defined as:

- *Numerator* — the number of children resident in nominated areas of low immunisation coverage reported as fully immunised in the ACIR aged  $12 \leq 15$  months and  $60 \leq 63$  months
- *Denominator* — total number of children resident in nominated areas of low immunisation coverage as registered in the ACIR aged  $12 \leq 15$  months and  $60 \leq 63$  months

and is expressed as a *percentage*

'Maintaining or increasing' is defined as the average coverage rate (ie, the average across the identified low immunisation areas) for each age cohort being equal to or greater than the average coverage rate for the equivalent age cohort for the previous period.

*A child is fully immunised when they are up-to-date with the standard vaccination schedule for their age or are on a suitable catch-up program based on the NIP schedule as defined in the ACIR.*

*Low immunisation coverage areas consist of local government areas (LGAs) (or if LGA data is unavailable Divisions of General Practice (DGP)) that have an immunisation coverage rate that is more than 5 per cent below the national average and, in combination (where applicable) contain a minimum of 2 per cent of the relevant age cohort for the State or Territory as a whole.*

Data source: *Numerator and denominator* — Australian Childhood Immunisation Register (ACIR)

Data provider: DoHA

Data availability: 1 April 2009 to 31 March 2010

Cross tabulations: State and Territory, by:

- Age ( $12 \leq 15$  months,  $60 \leq 63$  months)

**Table 2 Proportion of Australian children fully vaccinated resident in agreed areas of low immunisation coverage, by age cohort (per cent)<sup>a, b, c, d</sup>**

	<i>NSW</i>	<i>Vic</i>	<i>Qld</i>	<i>WA</i>	<i>SA</i>	<i>Tas</i>	<i>ACT</i>	<i>NT</i>	<i>Aust</i>
Baseline (1 April 2008 – 31 March 2009)									
Aged 12 ≤ 15 months	84.4	..	..	83.2	..	81.9	..	85.8	84.2
Aged 60 ≤ 63 months	72.7	75.3	..	..	..	..	..	..	73.6
Assessment period (1 April 2009 – 31 March 2010)									
Aged 12 ≤ 15 months	87.4	..	..	86.7	..	87.6	..	88.3	87.4
Aged 60 ≤ 63 months	80.9	82.5	..	..	..	..	..	..	81.5

<sup>a</sup> A child is fully immunised when they are up-to-date with the standard vaccination schedule for their age or are on a suitable catch-up program based on the NIP schedule. <sup>b</sup> Areas of low immunisation are identified and agreed by the Commonwealth and states and territories and contain at least two per cent of the relevant age cohort for the State or Territory as a whole. <sup>c</sup> Areas of low immunisation have a minimum size of at least one post code. Areas may be LGA or Division of General Practice. <sup>d</sup> 'Not applicable' indicates that there were no areas that meet the criteria for a low coverage area for the relevant age cohort. .. Not applicable.

Source: DoHA (unpublished) Australian Childhood Immunisation Register.

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## Box 2 **Comment on Data Quality**

The DQS for this indicator has been prepared by DoHA and is included in its original form in the section in this report titled 'Data Quality Statement'. Key points from the DQS are summarised below.

- The data provide relevant information on the proportion of children in low coverage areas in a jurisdiction that have been fully immunised, by State and Territory.
- Data from the Australian Child Immunisation Register (ACIR) are available quarterly. A minimum three-month lag period is allowed for late notification of immunisations to ACIR. Data are available for the reporting period of 1 April 2009 to 31 March 2010.
- Data are reported using the ACIR definition of fully-immunised children: 'children who have received all age appropriate immunisations for diphtheria, tetanus, pertussis, hepatitis B, poliomyelitis, Haemophilus influenzae type b, measles, mumps and rubella'.
- Vaccination coverage rates calculated using ACIR data may under-estimate actual vaccination rates, because of under-reporting by immunisation providers. The extent of any under-reporting has not been assessed (although the wastage and leakage calculation (performance benchmark 3) includes an adjustment factor of 1.03 to account for under-reporting to ACIR).
- Disaggregation by State and Territory and Local Government Area is based on postcode of residence of the child as recorded on ACIR. As children may receive vaccinations in locations other than where they live, these data do not necessarily reflect the location in which services were received.

The Steering Committee also notes the following issues:

- Only NSW has areas of 'low coverage' for both age cohorts. Victoria, WA, Tasmania and the NT have areas of 'low coverage' for one of the two age cohorts. Queensland, SA and the ACT have no areas of 'low coverage' for either age cohort.
- It is possible that jurisdictions were able to analyse the data before selecting areas of 'low coverage' for inclusion in this report. DoHA advised that jurisdictions selected their low coverage areas after the performance data for this report were publicly available, though these areas were analysed by DoHA before being accepted. DoHA have advised that, for future cycles of reporting, low coverage areas will be determined prior to the performance data becoming publicly available.

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## Performance benchmark 3 — Maintaining or decreasing wastage and leakage

Performance benchmark:	Maintaining or decreasing wastage and leakage
Measure:	<p>The proportion of selected National Immunisation Program (NIP) vaccines lost to wastage and leakage</p> <p>The measure is defined as:</p> <ul style="list-style-type: none"><li>• <i>Numerator</i> — the number of NIP vaccines lost to wastage and leakage (defined total distributed doses, less administered vaccine doses multiplied by 1.03, less vaccines lost due to uncontrollable events)</li><li>• <i>Denominator</i> — total number of NIP vaccines distributed and is expressed as a <i>percentage</i></li></ul> <p>'Maintaining or decreasing' is defined as wastage or leakage of 10 per cent or less.</p> <p><i>The group of NIP vaccines included in this measure are selected prior to the commencement of the reporting period.</i></p> <p><i>Total distributed doses is the total stock held by a jurisdiction at the start of the reporting period, plus the number of vaccines purchased during the reporting period, minus the vaccines held by jurisdictions at the end of the period.</i></p> <p><i>Uncontrollable events are vaccines lost to natural disasters, power outages or refrigeration failure.</i></p>
Data source:	<p><i>Numerator</i> — <u>Certified wastage and leakage reports from states and territories</u> for total distributed doses and vaccines lost to uncontrollable events and <u>ACIR</u> for number of vaccine doses administered.</p> <p><i>Denominator</i> — <u>Certified wastage and leakage reports from states and territories.</u></p>
Data provider:	DoHA State and Territory administrative data
Data availability:	1 July 2009 to 31 March 2010
Cross tabulations:	State and Territory

**Table 3 Wastage and leakage of agreed vaccines 1 July 2009 to 31 March 2010<sup>a, b</sup>**

	<i>Unit</i>	<i>NSW</i>	<i>Vic</i>	<i>Qld</i>	<i>WA</i>	<i>SA</i>	<i>Tas</i>	<i>ACT</i>	<i>NT</i>	<i>Aust</i>
Proportion of NIP vaccines lost to wastage/ leakage <sup>c</sup>	%	6.1	4.9	3.6	4.9	3.8	5.5	3.1	8.6	5.0

<sup>a</sup> Vaccine wastage/leakage is defined as vaccine lost due to breakages or vaccine past its expiry date. It does not include uncontrollable events such as natural disasters, power outages or refrigeration failure. <sup>b</sup> Agreed vaccines included in the calculation of this measure are Infanrix Hexa and Hiberix/Pedvax HIB. <sup>c</sup> The proportion is derived by dividing the total wastage/leakage (accounting for loss due to uncontrollable events) by the total number of distributed doses.

Source: DoHA (unpublished) Australian Childhood Immunisation Register, State and Territory Administrative data (unpublished)

### Box 3 Comment on Data Quality

The DQS for this indicator has been prepared by DoHA and is included in its original form in the section in this report titled 'Data Quality Statement'. Key points from the DQS are summarised below.

- The data provide relevant information on wastage and leakage of selected National Immunisation Program (NIP) vaccines, by State and Territory.
- The wastage and leakage calculation allows for vaccines lost due to uncontrollable events such as natural disasters, power outages or refrigeration failure. States and territories provide certified reports that outline any known wastage that has occurred due to uncontrollable events.
- Data from the Australian Child Immunisation Register (ACIR) are available quarterly. A minimum three-month lag period is allowed for late notification of immunisations to ACIR. Data are available for the reporting period of 1 April 2009 to 31 March 2010 (though to maintain consistency with available data on wastage and leakage the reference period is restricted to 1 July 2009 to 31 March 2010).
- State and Territory certified wastage and leakage reports are provided to DoHA by 30 April each year. The most recent available data are for the period of 1 July 2009 to 31 March 2010.
- The wastage and leakage calculation is an estimate only. Vaccination coverage rates calculated using ACIR data may underestimate actual vaccination rates because of under-reporting by immunisation providers. The wastage and leakage calculation includes an adjustment factor of 1.03 to account for under-reporting to ACIR.

The Steering Committee also notes the following issue:

- Data for this indicator are only available for the period from 1 July 2009 to 31 March 2010 (ie, nine months). Future cycles of reporting will include data for the full 12 month time period, which may affect the comparability of results over time.

## Performance benchmark 4 — Maintaining or increasing vaccination coverage for four year olds

Performance benchmark:	Maintaining or increasing vaccination coverage for four year olds
Measure	<p>The proportion of children, who are fully vaccinated, as defined in the <u>Australian Childhood Immunisation Register (ACIR)</u>.</p> <p>The measure is defined as:</p> <ul style="list-style-type: none"> <li>• <i>Numerator</i> — the number of children reported as fully immunised as defined by the ACIR aged 60 months ≤ 63 months</li> <li>• <i>Denominator</i> — total number of children aged 60 months ≤ 63 months registered on the ACIR</li> </ul> <p>and is expressed as a <i>percentage</i></p> <p>'Maintaining or increasing' is defined as the coverage rate being equal to or greater than:</p> <ul style="list-style-type: none"> <li>• the baseline, or</li> <li>• 92.5 per cent (even if the annual coverage rate has fallen from the previous year).</li> </ul> <p><i>A child is fully immunised when they are up-to-date with the standard vaccination schedule for their age or are on a suitable catch-up program based on the NIP schedule as defined by ACIR</i></p>
Data source:	<i>Numerator and denominator</i> — <u>Australian Childhood Immunisation Register (ACIR)</u>
Data provider:	DoHA
Data availability:	1 April 2009 to 31 March 2010
Cross tabulations:	State and Territory

**Table 4 Proportion of children aged 60 months to less than 63 months who are fully vaccinated (per cent)<sup>a</sup>**

	NSW	Vic	Qld	WA	SA	Tas	ACT	NT	Aust
Baseline <sup>b</sup>	74.6	78.7	79.7	75.9	73.0	79.2	81.4	77.1	76.9
Assessment period (1 April 2009 – 31 March 2010)	81.8	85.9	82.5	80.7	78.9	83.5	85.8	82.1	82.7

<sup>a</sup> A child is fully immunised when they are up-to-date with the standard vaccination schedule for their age or are on a suitable catch-up program based on the NIP schedule as defined in the ACIR. <sup>b</sup> The baseline is the lowest State and Territory coverage rate from the previous three assessment periods, where the assessment periods are calculated from 1 April to 31 March.

Source: DoHA (unpublished) Australian Childhood Immunisation Register.

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#### **Box 4      Comment on Data Quality**

The DQS for this indicator has been prepared by DoHA and is included in its original form in the section in this report titled 'Data Quality Statement'. Key points from the DQS are summarised below.

- The data provide relevant information on the proportion of children aged 60 to less than or equal to 63 months on the Australian Child Immunisation Register (ACIR) who are fully immunised, by State and Territory.
- Data for the ACIR are available quarterly. A minimum three-month lag period is allowed for late notification of immunisations to ACIR. Data are available for the reporting period of 1 April 2009 to 31 March 2010.
- Data are reported using the ACIR definition of fully-immunised children: 'children who have received all age appropriate immunisations for diphtheria, tetanus, pertussis, hepatitis B, poliomyelitis, Haemophilus influenzae type B, measles, mumps and rubella'.
- Vaccination coverage rates calculated using ACIR data may under-estimate actual vaccination rates because of under-reporting by immunisation providers. The extent of any under-reporting has not been assessed (although the wastage and leakage calculation (performance benchmark 3) includes an adjustment factor of 1.03 to account for under-reporting to ACIR).
- The disaggregation by State and Territory is based on postcode of residence of the child as recorded on ACIR. As children may receive vaccinations in locations other than where they live, this data does not necessarily reflect the location in which services were received.



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## Data Quality Statements

This section includes the Data Quality Statements for the Essential Vaccines performance benchmark as provided by the data provider. The Steering Committee has not made any amendments to the content of these DQS.

**Table 5 Data quality statements**

<i>Performance benchmark</i>	<i>Page no. in this report</i>
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## Data quality statement — Performance benchmark 1: Maintaining or increasing vaccine coverage for Indigenous Australians

<b>Target/Outcome</b>	Performance benchmark 1: Maintaining or increasing vaccine coverage for Indigenous Australians
<b>Measure (computation)</b>	<p>The numerator is the number of Indigenous Australian children reported as fully immunised, as defined in the Australian Childhood Immunisation Register (ACIR) aged: 12 ≤ 15 months; 24 ≤ 27 months; and 60 ≤ 63 months.</p> <p>The denominator is the number of Indigenous Australian children registered in ACIR aged 12 ≤ 15 months; 24 ≤ 27 months; and 60 ≤ 63 months.</p> <p>Calculation is 100 x (Numerator ÷ Denominator) calculated for each age cohort and presented as a rate per 100 children for each age cohort.</p> <p>The current year coverage rate is compared to a baseline which is the lowest coverage rate from the previous three years. If this establishes a baseline lower than the previous year's baseline, then the higher baseline applies.</p>
<b>Data source/s</b>	ACIR Register
<b>Institutional environment</b>	<p>The ACIR is administered and operated by Medicare Australia for the Australian Government Department of Health and Ageing (DoHA). Medicare Australia provides DoHA with quarterly coverage reports at the national and state level.</p> <p>Immunisations are notified to Medicare Australia by a range of immunisation providers including General Practitioners, Councils, Aboriginal Medical Services, State and Territory Health departments.</p> <p>For information on the institutional environment of the ACIR, including the legislative obligations of the ACIR, financing and governance arrangements, and mechanisms for scrutiny of ACIR operations, please see <a href="http://www.medicareaustralia.gov.au/public/services/acir/index.jsp">http://www.medicareaustralia.gov.au/public/services/acir/index.jsp</a></p> <p>The tables for this indicator and data quality statement were prepared by DoHA.</p>
<b>Relevance</b>	<p>The ACIR records details of vaccinations given to children under seven years of age who live in Australia. Reporting for this performance benchmark is only for those children aged: 12 ≤ 15 months; 24 ≤ 27 months; and 60 ≤ 63 months.</p> <p>Data has been reported using the ACIR definition of fully-immunised children; that is, children who have received all age appropriate immunisations for diphtheria, tetanus, pertussis, hepatitis B, poliomyelitis, Haemophilus influenzae type b, measles, mumps and rubella. These are the vaccines which are required for a person to achieve fully immunised status as defined by A New Tax System (Family Assistance) Act 1999.</p>

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	<p>The analysis by state/territory is based on postcode of residence of the child as recorded on ACIR. As children may receive vaccinations in locations other than where they live, this data does not necessarily reflect the location in which services were received.</p>
<b>Timeliness</b>	<p>The reference period is from 1 April 2009 to 31 March 2010.</p>
	<p>ACIR data are reported quarterly. A minimum 3-month lag period is allowed for late notification of immunisations to ACIR.</p>
<b>Accuracy</b>	<p>Vaccination coverage rates calculated using ACIR data are believed to underestimate actual vaccination rates because of under-reporting by immunisation providers. However, the extent of any under-reporting has not been estimated.</p> <p>Programs, such as the General Practice Immunisation Incentive (GPPI), and provider incentive payments have helped minimise under-reporting by providing a financial incentive to report clean and accurate data.</p> <p>The data contains minimal if any duplication of immunisations, as children are identified via their Medicare number. Approximately 99 per cent of children are registered with Medicare by 12 months of age.</p> <p>The ACIR covers virtually all children, particularly because participation in the ACIR is via an 'opt-out' arrangement. Children enrolled in Medicare are automatically included on the ACIR. Children not enrolled in Medicare are included when an immunisation service provider sends details of an immunisation encounter to ACIR.</p>
	<p>ACIR is considered to have high levels of Indigenous identification (estimated to be 95 per cent in 2005).</p>
<b>Coherence</b>	<p>The numerators and denominators have been consistent since the inception of the ACIR in 1996</p>
<b>Interpretability</b>	<p>Information on coverage rates for Indigenous Australians are not currently publicly accessible.</p> <p>Medicare Australia publishes current immunisation coverage from the ACIR on its web site, <a href="http://www.medicareaustralia.gov.au">www.medicareaustralia.gov.au</a>. Authorised immunisation providers can access detailed reports via a secured area of the Medicare Australia web site.</p>
	<p>Immunisation coverage data derived from the ACIR have been reported in Communicable Disease Intelligence since early 1998. Data for 3 key milestone ages (12 months, 24 months and 5 years (6 years prior to 2008)), nationally and by jurisdiction are published quarterly.</p>
<b>Accessibility</b>	<ul style="list-style-type: none"> <li>• Further information on the ACIR can be found at: <a href="http://www.medicareaustralia.gov.au/public/services/acir/index.jsp">http://www.medicareaustralia.gov.au/public/services/acir/index.jsp</a></li> <li>• Information on the National Immunisation Program and vaccinations can be found at <a href="http://www.immunise.health.gov.au/">http://www.immunise.health.gov.au/</a></li> </ul>

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## Data quality statement — Performance benchmark 2: Maintaining or increasing coverage in agreed areas of low immunisation coverage.

<b>Target/Outcome</b>	Maintaining or increasing coverage in agreed areas of low immunisation coverage.
<b>Measure (computation)</b>	<p>The numerator is the number of Australian children resident in an area of low immunisation coverage reported as fully immunised in ACIR at: 12 ≤ 15 months; and 60 ≤ 63 months.</p> <p>The denominator is the total number of Australian children resident in an area of low immunisation coverage as registered in ACIR aged: 12 ≤ 15 months; and 60 ≤ 63 months.</p> <p>Calculation is 100 x (Numerator ÷ Denominator) calculated for each age cohort and presented as a rate per 100 children for each age cohort.</p> <p>The current year coverage rate is compared to the previous year coverage rate.</p>
<b>Data source/s</b>	ACIR Register
<b>Institutional environment</b>	<p>The ACIR is administered and operated by Medicare Australia for the Australian Government Department of Health and Ageing (DoHA). Medicare Australia provides DoHA with quarterly coverage reports at the national and state level.</p> <p>Immunisations are notified to Medicare Australia by a range of immunisation providers including General Practitioners, Councils, Aboriginal Medical Services, State and Territory Health departments.</p> <p>For information on the institutional environment of the ACIR, including the legislative obligations of the ACIR, financing and governance arrangements, and mechanisms for scrutiny of ACIR operations, please see <a href="http://www.medicareaustralia.gov.au/public/services/acir/index.jsp">http://www.medicareaustralia.gov.au/public/services/acir/index.jsp</a>.</p> <p>The tables for this indicator and data quality statement were prepared by DoHA.</p>
<b>Relevance</b>	<p>The ACIR records details of vaccinations given to children under seven years of age who live in Australia. Reporting for this performance benchmark is only for those children aged: 12 ≤ 15 months; and 60 ≤ 63 months.</p> <p>Data has been reported using the ACIR definition of fully-immunised children; that is, children who have received all age appropriate immunisations for diphtheria, tetanus, pertussis, hepatitis B, poliomyelitis, haemophilus influenzae type B, measles, mumps and rubella. These are the vaccines which are required for a person to achieve fully immunised status as defined by A New Tax System (Family Assistance) Act 1999.</p> <p>The analyses by state/territory and Local Government Area are based on postcode of residence of the child as recorded on ACIR. As children may</p>

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	receive vaccinations in locations other than where they live, this data does not necessarily reflect the location in which services were received.
<b>Timeliness</b>	The reference period is from 1 April 2009 to 31 March 2010.
	ACIR data are reported quarterly. A minimum 3-month lag period is allowed for late notification of immunisations to ACIR.
<b>Accuracy</b>	Vaccination coverage rates calculated using ACIR data are believed to underestimate actual vaccination rates because of under-reporting by immunisation providers. However, the extent of any under-reporting has not been estimated.
	Programs, such as the General Practice Immunisation Incentive (GPPI), and provider incentive payments have helped minimise under-reporting by providing a financial incentive to report clean and accurate data.
	The data contains minimal if any duplication of immunisations, as children are identified via their Medicare number. Approximately 99 per cent of children are registered with Medicare by 12 months of age.
	The ACIR covers virtually all children, particularly because participation in the ACIR is via an 'opt-out' arrangement. Children enrolled in Medicare are automatically included on the ACIR. Children not enrolled in Medicare are included when an immunisation service provider sends details of an immunisation encounter to ACIR.
<b>Coherence</b>	The numerators and denominators have been consistent since the inception of the ACIR in 1996.
<b>Interpretability</b>	Information on coverage rates by Local Government Areas are not currently publicly accessible.
	Medicare Australia publishes current immunisation coverage from the ACIR on its web site, <a href="http://www.medicareaustralia.gov.au">www.medicareaustralia.gov.au</a> . Authorised immunisation providers can access detailed reports via a secured area of the Medicare Australia web site.
	Immunisation coverage data derived from the ACIR have been reported in Communicable Disease Intelligence since early 1998. Data for 3 key milestone ages (12 months, 24 months and 5 years (6 years prior to 2008)), nationally and by jurisdiction are published quarterly.
<b>Accessibility</b>	<ul style="list-style-type: none"> <li>• Further information on the ACIR can be found at: <a href="http://www.medicareaustralia.gov.au/public/services/acir/index.jsp">http://www.medicareaustralia.gov.au/public/services/acir/index.jsp</a></li> <li>• Information on the National Immunisation Program and vaccinations can be found at <a href="http://www.immunise.health.gov.au/">http://www.immunise.health.gov.au/</a></li> </ul>

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## Data quality statement — Performance benchmark 3: Maintaining or decreasing wastage and leakage

<b>Target/Outcome</b>	Maintaining or decreasing wastage and leakage
<b>Measure (computation)</b>	<p>The numerator is the number of National Immunisation Program (NIP) vaccines lost to wastage / leakage.</p> <p>The denominator is the total number of NIP vaccines distributed.</p> <p>Calculation is <math>100 \times (\text{Numerator} \div \text{Denominator})</math>.</p> <p>The wastage and leakage rate is compared to a 10 per cent or less benchmark.</p>
<b>Data source/s</b>	ACIR Register and certified wastage and leakage reports from states and territories
<b>Institutional environment</b>	<p>The ACIR is administered and operated by Medicare Australia for the Australian Government Department of Health and Ageing (DoHA). Medicare Australia provides DoHA with quarterly coverage reports at the national and state level.</p> <p>Immunisations are notified to Medicare Australia by a range of immunisation providers including General Practitioners, Councils, Aboriginal Medical Services, State and Territory Health departments.</p> <p>For information on the institutional environment of the ACIR, including the legislative obligations of the ACIR, financing and governance arrangements, and mechanisms for scrutiny of ACIR operations, please see <a href="http://www.medicareaustralia.gov.au/public/services/acir/index.jsp">http://www.medicareaustralia.gov.au/public/services/acir/index.jsp</a>.</p> <p>States and territories record vaccine stock distribution for their own planning purposes. Certified wastage and leakage reports are supplied by states and territories to DoHA at the end of the reporting period.</p> <p>The tables for this indicator and data quality statement were prepared by DoHA.</p>
<b>Relevance</b>	<p>The ACIR records details of vaccinations given to children under seven years of age who live in Australia.</p> <p>After consultation with each state and territory, Infanrix Hexa and Hiberix/Pedvax Hib will be used for the proxy vaccines.</p> <p>The analysis by state/territory is based on postcode of residence of the child as recorded on ACIR. As children may receive vaccinations in locations other than where they live, this data does not necessarily reflect the location in which services were received.</p>
<b>Timeliness</b>	<p>The reference period is from 1 July 2009 to 31 March 2010.</p> <p>ACIR data are reported quarterly. A minimum 3-month lag period is allowed for late notification of immunisations to ACIR.</p> <p>The certified wastage and leakage reports are provided to DoHA by 30 April each year.</p>

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**Accuracy**

The wastage and leakage calculation is an estimate only.

Vaccination coverage rates calculated using ACIR data are believed to underestimate actual vaccination rates because of under-reporting by immunisation providers. The wastage and leakage calculation includes an adjustment factor of 1.03 to account for under reporting to ACIR.

The adjustment factor is minimal as the high immunisation coverage rate suggests that there is a high level of reporting. Programs, such as the General Practice Immunisation Incentive (GPPI), and provider incentive payments have helped minimise under-reporting by providing a financial incentive to report clean and accurate data.

The data contains minimal if any duplication of immunisations, as children are identified via their Medicare number. ACIR is an 'opt-out' arrangement, children enrolled in Medicare are automatically included on the ACIR. Approximately 99 per cent of children are registered with Medicare by 12 months of age. Children not enrolled in Medicare are included when an immunisation service provider sends details of an immunisation encounter to ACIR.

The wastage and leakage calculation accounts for vaccines lost due to uncontrollable events such as natural disasters, power outages or refrigeration failure. States and territories provide certified reports that outline any known wastage that has occurred due to uncontrollable events.

The certified reports also include information on the total stock held at the start and finish of the reporting period and the number of vaccines purchased during the reporting period.

**Coherence**

The numerators and denominators have been consistent since the inception of the ACIR in 1996.

**Interpretability**

Medicare Australia publishes current immunisation coverage from the ACIR on its web site, [www.medicareaustralia.gov.au](http://www.medicareaustralia.gov.au). Authorised immunisation providers can access detailed reports via a secured area of the Medicare Australia web site.

Immunisation coverage data derived from the ACIR have been reported in Communicable Disease Intelligence since early 1998. Data for 3 key milestone ages (12 months, 24 months and 5 years (6 years prior to 2008)), nationally and by jurisdiction are published quarterly.

Certified state and territory reports are not publicly available.

**Accessibility**

Further information on the ACIR can be found at:  
<http://www.medicareaustralia.gov.au/public/services/acir/index.jsp>

Information on the National Immunisation Program and vaccinations can be found at <http://www.immunise.health.gov.au/>

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## Data quality statement — Performance benchmark 4: Maintaining or increasing vaccination coverage for four year olds

<b>Target/Outcome</b>	Maintaining or increasing vaccination coverage for four year olds
<b>Measure (computation)</b>	<p>The numerator is the number of Australian children reported as fully immunised as defined in ACIR aged 60 ≤ 63 months.</p> <p>The denominator is the total number of Australian children aged 60 ≤ 63 months registered in ACIR.</p> <p>Calculation is 100 x (Numerator ÷ Denominator) presented as a rate per 100 children aged four years.</p> <p>The current year coverage rate is compared to a baseline which is the lowest coverage rate from the previous three years. If this establishes a baseline lower than the previous year's baseline, then the higher baseline applies.</p>
<b>Data source/s</b>	ACIR Register
<b>Institutional environment</b>	<p>Australian Government Department of Health and Ageing (DoHA). Medicare Australia provides DoHA with quarterly coverage reports at the national and state level.</p> <p>Immunisations are notified to Medicare Australia by a range of immunisation providers including General Practitioners, Councils, Aboriginal Medical Services, State and Territory Health departments.</p> <p>For information on the institutional environment of the ACIR, including the legislative obligations of the ACIR, financing and governance arrangements, and mechanisms for scrutiny of ACIR operations, please see <a href="http://www.medicareaustralia.gov.au/public/services/acir/index.jsp">http://www.medicareaustralia.gov.au/public/services/acir/index.jsp</a>.</p> <p>The tables for this indicator and data quality statement were prepared by DoHA.</p>
<b>Relevance</b>	<p>The ACIR records details of vaccinations given to children under seven years of age who live in Australia. Reporting for this performance benchmark is only for those children aged 4 years.</p> <p>Data has been reported using the ACIR definition of fully-immunised children; that is, children who have received all age appropriate immunisations for diphtheria, tetanus, pertussis, hepatitis B, poliomyelitis, Haemophilus influenzae type B, measles, mumps and rubella. These are the vaccines which are required for a person to achieve fully immunised status as defined by A New Tax System (Family Assistance) Act 1999.</p> <p>The analysis by state/territory is based on postcode of residence of the child as recorded on ACIR. As children may receive vaccinations in locations other than where they live, this data does not necessarily reflect the location in which services were received..</p>
<b>Timeliness</b>	The reference period is from 1 April 2009 to 31 March 2010.



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	<p>ACIR data are reported quarterly.</p> <p>A minimum 3-month lag period is allowed for late notification of immunisations to ACIR.</p> <p>Data are presented for children born between 1 April 2005 to 30 March 2007.</p>
<b>Accuracy</b>	<p>Vaccination coverage rates calculated using ACIR data are believed to underestimate actual vaccination rates because of under-reporting by immunisation providers. However, the extent of any under-reporting has not been estimated.</p> <p>Programs, such as the General Practice Immunisation Incentive (GPII), and provider incentive payments have helped minimise under-reporting by providing a financial incentive to report clean and accurate data.</p> <p>The data contains minimal if any duplication of immunisations, as children are identified via their Medicare number. Approximately 99 per cent of children are registered with Medicare by 12 months of age.</p> <p>The ACIR covers virtually all children, particularly because participation in the ACIR is via an 'opt-out' arrangement. Children enrolled in Medicare are automatically included on the ACIR. Children not enrolled in Medicare are included when an immunisation service provider sends details of an immunisation encounter to ACIR.</p>
<b>Coherence</b>	<p>The numerators and denominators have been consistent since the inception of the ACIR in 1996.</p>
<b>Interpretability</b>	<p>Medicare Australia publishes current immunisation coverage from the ACIR on its web site, <a href="http://www.medicareaustralia.gov.au">www.medicareaustralia.gov.au</a>. Authorised immunisation providers can access detailed reports via a secured area of the Medicare Australia web site.</p> <p>Immunisation coverage data derived from the ACIR have been reported in Communicable Disease Intelligence since early 1998. Data for 3 key milestone ages (12 months, 24 months and 5 years (6 years prior to 2008)), nationally and by jurisdiction are published quarterly.</p>
<b>Accessibility</b>	<p>Further information on the ACIR can be found at:  <a href="http://www.medicareaustralia.gov.au/public/services/acir/index.jsp">http://www.medicareaustralia.gov.au/public/services/acir/index.jsp</a></p> <p>Information on the National Immunisation Program and vaccinations can be found at <a href="http://www.immunise.health.gov.au/">http://www.immunise.health.gov.au/</a></p>

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## References

COAG (Council of Australian Governments) 2009a, *COAG Communiqué 30 April 2009*, [www.coag.gov.au/coag\\_meeting\\_outcomes/2009-04-30/docs/20090430\\_communique.pdf](http://www.coag.gov.au/coag_meeting_outcomes/2009-04-30/docs/20090430_communique.pdf) (accessed 12 April 2010).

— 2009b, *Intergovernmental Agreement on Federal Financial Relations*, [http://www.federalfinancialrelations.gov.au/content/intergovernmental\\_agreements.aspx](http://www.federalfinancialrelations.gov.au/content/intergovernmental_agreements.aspx) (accessed 1 September 2010).

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## Acronyms and abbreviations

ACIR	Australian Childhood Immunisation Register
ACT	Australian Capital Territory
Aust	Australia
COAG	Council of Australian Governments
CRC	COAG Reform Council
DGP	Division of General Practice
DoHA	Department of Health and Ageing
DQS	Data quality statement
GPII	General Practice Immunisation Incentive
IGA	Intergovernmental Agreement on Federal Financial Relations
LGA	Local Government Area
MCFFR	Ministerial Council for Federal Financial Relations
NA	National Agreement
NIP	National Immunisation Program
NP	National Partnership
NSW	New South Wales
NT	Northern Territory
Qld	Queensland
SA	South Australia
SPP	Specific Purpose Payment
Tas	Tasmania
Vic	Victoria
WA	Western Australia