



**Australian Government**  
**Productivity Commission**

National Partnership  
Agreement on  
Essential Vaccines

Performance Report  
1 April 2014 – 31 March 2015

August 2015

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### **The Productivity Commission**

The Productivity Commission is the Australian Government's independent research and advisory body on a range of economic, social and environmental issues affecting the welfare of Australians. Its role, expressed most simply, is to help governments make better policies, in the long term interest of the Australian community.

The Commission's independence is underpinned by an Act of Parliament. Its processes and outputs are open to public scrutiny and are driven by concern for the wellbeing of the community as a whole.

Further information on the Productivity Commission can be obtained from the Commission's website ([www.pc.gov.au](http://www.pc.gov.au)).



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24 August 2015

The Hon Tony Abbott MP  
Prime Minister  
Parliament House  
Canberra ACT 2600

Dear Prime Minister

On behalf of the Productivity Commission, I am pleased to submit to you our report *National Partnership Agreement on Essential Vaccines: Performance Report 1 April 2014 – 31 March 2015*.

This is the second annual report on the National Partnership Agreement on Essential Vaccines prepared by the Productivity Commission, following a request from COAG in February 2015.

Our report shows that all governments have achieved the required minimum two out of four benchmarks necessary to be eligible for reward payments.

Consistent with the request from COAG, the Productivity Commission will publicly release this report in September 2015.

Yours faithfully

A handwritten signature in black ink, appearing to read 'Peter Harris'.

Peter Harris  
Chairman

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# Letter of Direction



**Australian Government**

**Department of the Prime Minister and Cabinet**

**ANDREW FISHER BUILDING  
ONE NATIONAL CIRCUIT  
BARTON**

4 February 2015

Mr Daryl Quinlivan  
Head of Office  
Productivity Commission  
GPO Box 1428  
CANBERRA ACT 2601

Dear Mr Quinlivan

I am writing to formalise arrangements for the transfer of the performance assessment function under the National Partnership Agreement on Essential Vaccines (NP) to the Productivity Commission.

With the agreement of all parties, the NP has been varied to allow the Productivity Commission to take on responsibility for assessing state and territory (state) achievement against four benchmarks and reporting to the Council of Australian Governments before reward payments can be made.

Please find a signed copy of the agreement enclosed.

I look forward to working with you and your colleagues on this matter.

Yours sincerely

A handwritten signature in black ink, appearing to read 'Jo Laduzko'.

Jo Laduzko  
Assistant Secretary  
Commonwealth-State Relations Branch  
Economic Division

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# Key findings

## All State and Territory governments are eligible for reward payments

Under the National Partnership Agreement on Essential Vaccines (the NP), State and Territory governments are *eligible for reward payments if they achieve at least two of the four benchmarks* listed in the NP. All State and Territory governments met this requirement.

The four benchmarks are:

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

As illustrated in table 1:

- all jurisdictions except Tasmania met benchmark 1
- all jurisdictions met benchmark 2
  - NSW and WA had agreed areas of low coverage and achieved benchmark 2
  - Victoria, Queensland, SA, Tasmania, the ACT and the NT had no areas of low immunisation coverage and have been assessed to have achieved benchmark 2.<sup>1</sup>
- All jurisdictions met benchmarks 3 and 4.

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<sup>1</sup> Areas of low immunisation coverage are specified as areas with coverage rates 5 per cent or lower than the national average rate and with at least 2 per cent of the State population for the relevant age group (see Appendix A). The specification for benchmark 2 does not state how to assess jurisdictions which have no low coverage areas. For this cycle of reporting, the Productivity Commission has taken the approach whereby a jurisdiction that has no low coverage areas for both age groups (and for which this has been independently verified by the Commonwealth Department of Health) is assessed as having met the benchmark. The intent of the benchmark is to improve coverage in low coverage areas, therefore a result of no low coverage areas indicates the intent has been met. This approach differs to that used for the previous cycle of reporting, where independent verification of the low coverage areas was not available within the required timeframes for reporting (this did not impact on the eligibility of jurisdictions for reward payments).

**Table 1 Performance against essential vaccines benchmarks, by jurisdiction, 1 April 2014–31 March 2015**

	<i>Benchmark 1: Vaccine coverage for Indigenous Australians</i>	<i>Benchmark 2: Coverage in low immunisation areas</i>	<i>Benchmark 3: Maintaining or decreasing wastage and leakage</i>	<i>Benchmark 4: Vaccination coverage for four year olds</i>
NSW	✓	✓	✓	✓
Victoria	✓	✓ (a)	✓	✓
Queensland	✓	✓ (a)	✓	✓
WA	✓	✓	✓	✓
SA	✓	✓ (a)	✓	✓
Tasmania	✘	✓ (a)	✓	✓
ACT	✓	✓ (a)	✓	✓
NT	✓	✓ (a)	✓	✓

(a) Jurisdiction had no agreed low coverage areas as per the specifications for this benchmark (see Appendix A for specifications).

**Key**

<b>Benchmark met</b>	<b>Benchmark not met</b>
✓	✘

---

# 1 About this report

## **The National Partnership Agreement and the Productivity Commission's role**

This report assesses the performance of State and Territory governments against the four benchmarks set out in the National Partnership Agreement on Essential Vaccines.

### **The Productivity Commission's role**

Under the Intergovernmental Agreement on Federal Financial Relations, the COAG Reform Council (CRC) was responsible for assessing State and Territory performance against the benchmarks in the National Partnership Agreement on Essential Vaccines (the NP) associated with reward payments. The CRC produced three annual assessment reports (the latest for the period 1 April 2012 to 31 March 2013) before it was abolished in mid-2014.

In February 2015, the Department of the Prime Minister and Cabinet advised the Commission that, with the agreement of COAG, the NP had been varied to allow the Commission to undertake this assessment, with the first assessment report relating to the period 1 April 2013 to 31 March 2014. The Productivity Commission provided the first assessment report to COAG on 30 April 2015.

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

The NP aims to improve the health and wellbeing of Australians through the cost-effective delivery of immunisation programs under the National Immunisation Program. The NP is ongoing, with 4 per cent of the annual total essential vaccine funding expenditure available for incentive payments, and from 2011-12 onwards up to 60 per cent of incentive payments available as reward payments (Schedule F, paras 1-2).

Under the NP, the States and Territories have agreed to maintain and where possible improve immunisation coverage rates (para 15). The NP contributes to the following four 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 (para 16).

## **The assessment task**

The Productivity Commission's role is to provide an independent assessment to COAG on whether States and Territories have achieved the agreed performance benchmarks (Schedule F, replacement clauses 4 and 41). The assessment is provided to COAG before reward payments are made (Schedule F, replacement clause 2). The Productivity Commission does not recommend whether payments should be made under the NP (Schedule F, replacement clause 41).

The four benchmarks with reward payments in the NP for which an assessment is made are:

- Benchmark 1: maintaining or increasing vaccine coverage for Indigenous Australians
- Benchmark 2: maintaining or increasing coverage in agreed areas of low immunisation coverage
- Benchmark 3: maintaining or decreasing wastage and leakage
- Benchmark 4: maintaining or increasing vaccination coverage for four year olds (para 37).

Each State and Territory must achieve at least two of the four performance benchmarks to be eligible to receive a reward payment (para 38).

The National Immunisation Program Schedule sets out the vaccination program for children and adults. The benchmarks under the NP include children in the following age groups:

- 12–15 months (1 year olds)
- 24–27 months (2 year olds)
- 60–63 months (4 year olds).

A four year old can be vaccinated at any time during that year so long as they are fully vaccinated by five years of age. A three month lag period for all age groups allows for late immunisation notifications.

Data for this assessment task was provided by the Commonwealth Department of Health to the Productivity Commission.

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## The Productivity Commission's assessment

Specifications for the four benchmarks were endorsed by the Australian Health Ministers Advisory Council out of session on 4 January 2011 and are included in appendix A. Three of the four benchmarks in the NP require annual maintenance of performance or improvement relative to previous performance. There are agreed methods for establishing new annual baselines and tracking improvement for each benchmark in the assessment period. These are described in further detail in appendix A and summarised below:

### **Benchmark 1: maintaining or increasing vaccine coverage for Indigenous Australians**

- The baseline for each assessment year for each State and Territory for each of the three age groups is the higher of:
  - its lowest coverage rate from the previous three assessment periods or
  - its baseline in the previous assessment period.
- The benchmark is met if at least two of the three age groups have coverage rates equal to or greater than the baseline or 92.5 per cent.

### **Benchmark 2: maintaining or increasing coverage in agreed areas of low immunisation coverage**

- The average coverage rate for each State and Territory for the current assessment period must be greater than or equal to its average coverage rate for the previous assessment period.
- The benchmark is met if this is achieved in both of the 12–15 and 60–63 month age groups.<sup>1</sup>

### **Benchmark 3: maintaining or decreasing wastage and leakage**

- The benchmark is met for each State and Territory if its wastage or leakage is less than or equal to 10 per cent.

### **Benchmark 4: maintaining or increasing vaccination coverage for four year olds**

- The baseline for each assessment year for each State and Territory is the higher of:

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<sup>1</sup> Areas of low immunisation coverage are specified as areas with coverage rates 5 per cent or lower than the national rate and with at least 2 per cent of the State population for the relevant age group (see Appendix A). The specification for benchmark 2 does not state how to assess jurisdictions which have no low coverage areas. For this cycle of reporting, the Productivity Commission has taken the approach whereby a jurisdiction that has no low coverage areas for both age groups (and for which this has been independently verified by the Commonwealth Department of Health) is assessed as having met the benchmark. The intent of the benchmark is to improve coverage in low coverage areas, therefore a result of no low coverage areas indicates the intent has been met. This approach differs to that used for the previous cycle of reporting, where independent verification of the low coverage areas was not available within the required timeframes for reporting (this did not impact on the eligibility of jurisdictions for reward payments).

- 
- its lowest coverage rate from the previous three assessment periods or
  - its baseline in the previous assessment period.
  - The benchmark is met if the coverage rate is greater than or equal to the baseline or 92.5 per cent.

---

## 2 Assessment against benchmarks

### **The results**

This chapter reports the Productivity Commission's assessment of each State's and Territory's achievement of the benchmarks in the NP.

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## New South Wales

### NSW met all four benchmarks

#### Benchmark 1: maintaining or increasing vaccine coverage for Indigenous Australians

Benchmark 1 was MET: Vaccination rates for Indigenous children were higher than the baseline for all three age groups (table 2.1).

---

Table 2.1 **Vaccination coverage rates among Indigenous children in NSW**

#### Benchmark 1: Maintaining or increasing vaccine coverage for Indigenous Australians

Age	Baseline (%)	Result (%)	Assessment <sup>a</sup>
12–15 months	85.8	90.4	↑ ✓
24–27 months	91.7	92.9	↑ ✓
60–63 months	86.0	95.1	↑ ✓

<sup>a</sup> The benchmark is met if at least two of the three age groups have coverage rates equal to or higher than the baseline or 92.5 per cent.

**Benchmark met**

---

#### Benchmark 2: maintaining or increasing coverage in agreed areas of low immunisation coverage

Benchmark 2 was MET: Vaccination rates for both age groups in low coverage areas were above the baseline (table 2.2).

---

Table 2.2 **Low vaccine coverage areas in NSW**

#### Benchmark 2: Maintaining or increasing vaccine coverage in agreed areas of low vaccine coverage

Age	Baseline (%)	Result (%)	Assessment <sup>a</sup>
12–15 months	83.5	87.1	↑ ✓
60–63 months	89.9	91.4	↑ ✓

<sup>a</sup> The benchmark is met if coverage for both age groups is greater than or equal to the baseline.

**Benchmark met**

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### Benchmark 3: maintaining or decreasing wastage and leakage

Benchmark 3 was MET: The rate of wastage or leakage was lower than the benchmark (table 2.3).

---

Table 2.3 Vaccines lost to wastage or leakage in NSW

**Benchmark 3: Maintaining or decreasing wastage and leakage**

	Benchmark (%)	Result (%)	Assessment <sup>a</sup>
Vaccines wasted or leaked	10.0	5.4	↓ ✓

<sup>a</sup> The benchmark is met if wastage or leakage is less than or equal to 10 per cent.

**Benchmark met**

---

### Benchmark 4: maintaining or increasing vaccination coverage for four year olds

Benchmark 4 was MET: Vaccination rates for four year old children were higher than the baseline (table 2.4).

---

Table 2.4 Vaccination coverage among four year olds in NSW

**Benchmark 4: Maintaining or increasing vaccination coverage for four year olds**

Age	Baseline (%)	Result (%)	Assessment <sup>a</sup>
60–63 months	89.8	92.4	↑ ✓

<sup>a</sup> The benchmark is met if the coverage rate is equal to or higher than the baseline or 92.5 per cent.

**Benchmark met**

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## Victoria

### Victoria met all four benchmarks

#### **Benchmark 1: maintaining or increasing vaccine coverage for Indigenous Australians**

Benchmark 1 was MET: Vaccination rates for Indigenous children were higher than the baseline for two of the three age groups — lower than the baseline for the 24–27 months age group (table 2.5).

---

**Table 2.5 Vaccination coverage rates among Indigenous children in Victoria**

#### **Benchmark 1: Maintaining or increasing vaccine coverage for Indigenous Australians**

Age	Baseline (%)	Result (%)	Assessment <sup>a</sup>
12–15 months	85.2	87.4	↑ ✓
24–27 months	91.7	90.6	↓ ✗
60–63 months	87.1	91.0	↑ ✓

<sup>a</sup> The benchmark is met if at least two of the three age groups have coverage rates equal to or higher than the baseline or 92.5 per cent.

**Benchmark met**

---

#### **Benchmark 2: maintaining or increasing coverage in agreed areas of low immunisation coverage**

Benchmark 2 was MET: Victoria had no areas that met the specifications for agreed areas of low coverage (for the current and baseline periods, areas with coverage 5 per cent or less than the national average and with at least 2 per cent of the State population for the relevant age group). As there were no low coverage areas (as per the specifications), the benchmark was assessed as met.

**Benchmark met**

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### Benchmark 3: maintaining or decreasing wastage and leakage

Benchmark 3 was MET: The rate of wastage or leakage was lower than the benchmark (table 2.6).

---

Table 2.6 Vaccines lost to wastage or leakage in Victoria

**Benchmark 3: Maintaining or decreasing wastage or leakage**

	<i>Maximum (%)</i>	<i>Result (%)</i>	<i>Assessment<sup>a</sup></i>	
Vaccines wasted or leaked	10.0	5.1	↓	✓

<sup>a</sup> The benchmark is met if wastage or leakage is less than or equal to 10 per cent.

**Benchmark met**

---

### Benchmark 4: maintaining or increasing vaccination coverage for four year olds

Benchmark 4 was MET: Vaccination rates for four year old children were higher than the baseline (table 2.7).

---

Table 2.7 Vaccination coverage among four year olds in Victoria

**Benchmark 4: Maintaining or increasing vaccination coverage for four year olds**

<i>Age</i>	<i>Baseline (%)</i>	<i>Result (%)</i>	<i>Assessment<sup>a</sup></i>	
60–63 months	91.3	92.3	↑	✓

<sup>a</sup> The benchmark is met if the coverage rate is equal to or higher than the baseline or 92.5 per cent.

**Benchmark met**

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## Queensland

### Queensland met all four benchmarks

#### **Benchmark 1: maintaining or increasing vaccine coverage for Indigenous Australians**

Benchmark 1 was MET: Vaccination rates for Indigenous children were higher than the baseline for all three age groups (table 2.8).

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Table 2.8 **Vaccination coverage rates among Indigenous children in Queensland**

#### **Benchmark 1: Maintaining or increasing vaccine coverage for Indigenous Australians**

Age	Baseline (%)	Result (%)	Assessment <sup>a</sup>
12–15 months	85.4	86.8	↑ ✓
24–27 months	92.9	93.2	↑ ✓
60–63 months	88.8	93.4	↑ ✓

<sup>a</sup> The benchmark is met if at least two of the three age groups have coverage rates equal to or higher than the baseline or 92.5 per cent.

**Benchmark met**

---

#### **Benchmark 2: maintaining or increasing coverage in agreed areas of low immunisation coverage**

Benchmark 2 was MET: Queensland had no areas that met the specifications for agreed areas of low coverage (for the current and baseline periods, areas with coverage 5 per cent or less than the national average and with at least 2 per cent of the State population for the relevant age group). As there were no low coverage areas (as per the specifications), the benchmark was assessed as met.

**Benchmark met**

---

---

### Benchmark 3: maintaining or decreasing wastage and leakage

Benchmark 3 was MET: The rate of wastage or leakage was lower than the benchmark (table 2.9).

---

Table 2.9 Vaccines lost to wastage or leakage in Queensland

**Benchmark 3: Maintaining or decreasing wastage or leakage**

	<i>Maximum (%)</i>	<i>Result (%)</i>	<i>Assessment<sup>a</sup></i>	
Vaccines wasted or leaked	10.0	5.6	↓	✓

<sup>a</sup> The benchmark is met if wastage or leakage is less than or equal to 10 per cent.

**Benchmark met**

---

### Benchmark 4: maintaining or increasing vaccination coverage for four year olds

Benchmark 4 was MET: Vaccination rates for four year old children were higher than the baseline (table 2.10).

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Table 2.10 Vaccination coverage among four year olds in Queensland

**Benchmark 4: Maintaining or increasing vaccination coverage for four year olds**

<i>Age</i>	<i>Baseline (%)</i>	<i>Result (%)</i>	<i>Assessment<sup>a</sup></i>	
60–63 months	90.1	92.1	↑	✓

<sup>a</sup> The benchmark is met if the coverage rate is equal to or higher than the baseline or 92.5 per cent.

**Benchmark met**

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## Western Australia

### Western Australia met all four benchmarks

#### Benchmark 1: maintaining or increasing vaccine coverage for Indigenous Australians

Benchmark 1 was MET: Vaccination rates for Indigenous children were higher than the baseline for all three age groups (table 2.11).

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Table 2.11 **Vaccination coverage rates among Indigenous children in WA**

#### Benchmark 1: Maintaining or increasing vaccine coverage for Indigenous Australians

Age	Baseline (%)	Result (%)	Assessment <sup>a</sup>
12–15 months	78.9	84.9	↑ ✓
24–27 months	89.4	91.6	↑ ✓
60–63 months	81.4	92.7	↑ ✓

<sup>a</sup> The benchmark is met if at least two of the three age groups have coverage rates equal to or higher than the baseline or 92.5 per cent.

**Benchmark met**

---

#### Benchmark 2: maintaining or increasing coverage in agreed areas of low immunisation coverage

Benchmark 2 was MET: Vaccination rates were above the baseline for both age groups (table 2.12).

---

Table 2.12 **Low vaccine coverage areas in WA**

#### Benchmark 2: Maintaining or increasing vaccine coverage in agreed areas of low vaccine coverage

Age	Baseline (%)	Result (%)	Assessment <sup>a</sup>
12–15 months	84.3	85.2	↑ ✓
60–63 months	85.4	86.9	↑ ✓

<sup>a</sup> The benchmark is met if coverage for both age groups is greater than or equal to the baseline.

**Benchmark met**

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**Benchmark 3: maintaining or decreasing wastage and leakage**

Benchmark 3 was MET: The rate of wastage or leakage was lower than the benchmark (table 2.13).

---

**Table 2.13 Vaccines lost to wastage or leakage in WA****Benchmark 3: Maintaining or decreasing wastage or leakage**

	<i>Maximum (%)</i>	<i>Result (%)</i>	<i>Assessment<sup>a</sup></i>	
Vaccines wasted or leaked	10.0	5.7	↓	✓

<sup>a</sup> The benchmark is met if wastage or leakage is less than or equal to 10 per cent.

**Benchmark met**

---

**Benchmark 4: maintaining or increasing vaccination coverage for four year olds**

Benchmark 4 was MET: Vaccination rates for four year old children were higher than the baseline (table 2.14).

---

**Table 2.14 Vaccination coverage among four year olds in WA****Benchmark 4: Maintaining or increasing vaccination coverage for four year olds**

<i>Age</i>	<i>Baseline (%)</i>	<i>Result (%)</i>	<i>Assessment<sup>a</sup></i>	
60–63 months	86.4	90.4	↑	✓

<sup>a</sup> The benchmark is met if the coverage rate is equal to or higher than the baseline or 92.5 per cent.

**Benchmark met**

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## South Australia

### South Australia has met all four benchmarks

#### **Benchmark 1: maintaining or increasing vaccine coverage for Indigenous Australians**

Benchmark 1 was MET: Vaccination rates for Indigenous children were equal to or higher than the baseline for all three age groups (table 2.15).

---

**Table 2.15 Vaccination coverage rates among Indigenous children in SA**  
**Benchmark 1: Maintaining or increasing vaccine coverage for Indigenous Australians**

Age	Baseline (%)	Result (%)	Assessment <sup>a</sup>
12–15 months	78.2	87.7	↑ ✓
24–27 months	88.9	88.9	— ✓
60–63 months	78.6	89.2	↑ ✓

<sup>a</sup> The benchmark is met if at least two of the three age groups have coverage rates equal to or higher than the baseline or 92.5 per cent.

**Benchmark met**

---

#### **Benchmark 2: maintaining or increasing coverage in agreed areas of low immunisation coverage**

Benchmark 2 was MET: SA had no areas that met the specifications for agreed areas of low coverage (for the current and baseline periods, areas with coverage 5 per cent or less than the national average and with at least 2 per cent of the State population for the relevant age group). As there were no low coverage areas (as per the specifications), the benchmark was assessed as met.

**Benchmark met**

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---

**Benchmark 3: maintaining or decreasing wastage and leakage**

Benchmark 3 was MET: The rate of wastage or leakage was lower than the benchmark (table 2.16).

---

**Table 2.16 Vaccines lost to wastage or leakage in SA****Benchmark 3: Maintaining or decreasing wastage or leakage**

	<i>Maximum (%)</i>	<i>Result (%)</i>	<i>Assessment<sup>a</sup></i>	
Vaccines wasted or leaked	10.0	4.4	↓	✓

<sup>a</sup> The benchmark is met if wastage or leakage is less than or equal to 10 per cent.

**Benchmark met**

---

**Benchmark 4: maintaining or increasing vaccination coverage for four year olds**

Benchmark 4 was MET: Vaccination rates for four year old children were higher than the baseline (table 2.17).

---

**Table 2.17 Vaccination coverage among four year olds in SA****Benchmark 4: Maintaining or increasing vaccination coverage for four year olds**

<i>Age</i>	<i>Baseline (%)</i>	<i>Result (%)</i>	<i>Assessment<sup>a</sup></i>	
60–63 months	87.2	90.6	↑	✓

<sup>a</sup> The benchmark is met if the coverage rate is equal to or higher than the baseline or 92.5 per cent.

**Benchmark met**

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## Tasmania

### Tasmania has met three of the four benchmarks

#### **Benchmark 1: maintaining or increasing vaccine coverage for Indigenous Australians**

Benchmark 1 was NOT MET: Vaccination rates for Indigenous children were higher for one of the three age groups — lower than the baseline for the 12–15 months and 24–27 months age groups (table 2.18).

---

**Table 2.18 Vaccination coverage rates among Indigenous children in Tasmania**

#### **Benchmark 1: Maintaining or increasing vaccine coverage for Indigenous Australians**

Age	Baseline (%)	Result (%)	Assessment <sup>a</sup>
12–15 months	89.7	87.4	↓ ✘
24–27 months	93.2	90.3	↓ ✘
60–63 months	90.7	91.4	↑ ✔

<sup>a</sup> The benchmark is met if at least two of the three age groups have coverage rates equal to or higher than the baseline or 92.5 per cent.

**Benchmark not met**

---

#### **Benchmark 2: maintaining or increasing coverage in agreed areas of low immunisation coverage**

Benchmark 2 was MET: Tasmania had no areas that met the specifications for agreed areas of low coverage (for the current and baseline periods, areas with coverage 5 per cent or less than the national average and with at least 2 per cent of the State population for the relevant age group). As there were no low coverage areas (as per the specifications), the benchmark was assessed as met.

**Benchmark met**

---

**Benchmark 3: maintaining or decreasing wastage and leakage**

Benchmark 3 was MET: The rate of wastage or leakage was lower than the benchmark (table 2.19).

---

**Table 2.19 Vaccines lost to wastage or leakage in Tasmania****Benchmark 3: Maintaining or decreasing wastage or leakage**

	<i>Maximum (%)</i>	<i>Result (%)</i>	<i>Assessment<sup>a</sup></i>	
Vaccines wasted or leaked	10.0	4.5	↓	✓

<sup>a</sup> The benchmark is met if wastage or leakage is less than or equal to 10 per cent.

**Benchmark met**

---

**Benchmark 4: maintaining or increasing vaccination coverage for four year olds**

Benchmark 4 was MET: Vaccination rates for four year old children were higher than the baseline (table 2.20).

---

**Table 2.20 Vaccination coverage among four year olds in Tasmania****Benchmark 4: Maintaining or increasing vaccination coverage for four year olds**

<i>Age</i>	<i>Baseline (%)</i>	<i>Result (%)</i>	<i>Assessment<sup>a</sup></i>	
60–63 months	90.7	92.1	↑	✓

<sup>a</sup> The benchmark is met if the coverage rate is equal to or higher than the baseline or 92.5 per cent.

**Benchmark met**

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## Australian Capital Territory

The Australian Capital Territory has met all four benchmarks

### Benchmark 1: maintaining or increasing vaccine coverage for Indigenous Australians

Benchmark 1 was MET: Vaccination rates for Indigenous children were higher than the baseline for all three age groups (table 2.21).

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Table 2.21 **Vaccination coverage rates among Indigenous children in the ACT**

#### Benchmark 1: Maintaining or increasing vaccine coverage for Indigenous Australians

Age	Baseline (%)	Result (%)	Assessment <sup>a</sup>
12–15 months	89.0	93.6	↑ ✓
24–27 months	92.5	95.0	↑ ✓
60–63 months	88.5	97.4	↑ ✓

<sup>a</sup> The benchmark is met if at least two of the three age groups have coverage rates equal to or higher than the baseline or 92.5 per cent.

**Benchmark met**

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### Benchmark 2: maintaining or increasing coverage in agreed areas of low immunisation coverage

Benchmark 2 was MET: the ACT had no areas that met the specifications for agreed areas of low coverage (for the current and baseline periods, areas with coverage 5 per cent or less than the national average and with at least 2 per cent of the State population for the relevant age group). As there were no low coverage areas (as per the specifications), the benchmark was assessed as met.

**Benchmark met**

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**Benchmark 3: maintaining or decreasing wastage and leakage**

Benchmark 3 was MET: The rate of wastage or leakage was lower than the benchmark (table 2.22).

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**Table 2.22 Vaccines lost to wastage or leakage in the ACT****Benchmark 3: Maintaining or decreasing wastage or leakage**

	<i>Maximum (%)</i>	<i>Result (%)</i>	<i>Assessment<sup>a</sup></i>	
Vaccines wasted or leaked	10.0	2.4	↓	✓

<sup>a</sup> The benchmark is met if wastage or leakage is less than or equal to 10 per cent.

**Benchmark met**

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**Benchmark 4: maintaining or increasing vaccination coverage for four year olds**

Benchmark 4 was MET: Vaccination rates for four year old children were higher than the baseline (table 2.23).

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**Table 2.23 Vaccination coverage among four year olds in the ACT****Benchmark 4: Maintaining or increasing vaccination coverage for four year olds**

<i>Age</i>	<i>Baseline (%)</i>	<i>Result (%)</i>	<i>Assessment<sup>a</sup></i>	
60–63 months	91.4	93.3	↑	✓

<sup>a</sup> The benchmark is met if the coverage rate is equal to or higher than the baseline or 92.5 per cent.

**Benchmark met**

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## Northern Territory

### The Northern Territory has met all four benchmarks

#### **Benchmark 1: maintaining or increasing vaccine coverage for Indigenous Australians**

Benchmark 1 was MET: Vaccination rates for Indigenous children were higher than the baseline or 92.5 per cent for two out of the three age groups — lower for the 12–15 months age group (table 2.24).

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**Table 2.24 Vaccination coverage rates among Indigenous children in the NT**

#### **Benchmark 1: Maintaining or increasing vaccine coverage for Indigenous Australians**

<i>Age</i>	<i>Baseline (%)</i>	<i>Result (%)</i>	<i>Assessment<sup>a</sup></i>
12–15 months	89.4	88.5	↓ ✘
24–27 months	95.6	94.6	↓ ✔
60–63 months	91.2	95.2	↑ ✔

<sup>a</sup> The benchmark is met if at least two of the three age groups have coverage rates equal to or higher than the baseline or 92.5 per cent.

**Benchmark met**

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#### **Benchmark 2: maintaining or increasing coverage in agreed areas of low immunisation coverage**

Benchmark 2 was MET: the NT had no areas that met the specifications for agreed areas of low coverage (for the current and baseline periods, areas with coverage 5 per cent or less than the national average and with at least 2 per cent of the State population for the relevant age group). As there were no low coverage areas (as per the specifications), the benchmark was assessed as met.

**Benchmark met**

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**Benchmark 3: maintaining or decreasing wastage and leakage**

Benchmark 3 was MET: The rate of wastage or leakage was lower than the benchmark (table 2.25).

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**Table 2.25 Vaccines lost to wastage or leakage in the NT****Benchmark 3: Maintaining or decreasing wastage or leakage**

	<i>Maximum (%)</i>	<i>Result (%)</i>	<i>Assessment<sup>a</sup></i>	
Vaccines wasted or leaked	10.0	5.2	↓	✓

<sup>a</sup> The benchmark is met if wastage or leakage is less than or equal to 10 per cent.

**Benchmark met**

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**Benchmark 4: maintaining or increasing vaccination coverage for four year olds**

Benchmark 4 was MET: Vaccination rates for four year old children were higher than the baseline (table 2.26).

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**Table 2.26 Vaccination coverage among four year olds in the NT****Benchmark 4: Maintaining or increasing vaccination coverage for four year olds**

<i>Age</i>	<i>Baseline (%)</i>	<i>Result (%)</i>	<i>Assessment<sup>a</sup></i>	
60–63 months	88.7	91.8	↑	✓

<sup>a</sup> The benchmark is met if the coverage rate is equal to or higher than the baseline or 92.5 per cent.

**Benchmark met**

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# Appendix A — Measures of improvement

This appendix includes the specifications for the measures for each of the four benchmarks in the NP.

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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 \leq 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 the baseline or 92.5 per cent.</p> <p>The baseline is the higher of:</p> <ul style="list-style-type: none"><li>• the baseline for the previous assessment period, or</li><li>• the lowest coverage rate for the previous three assessment periods.</li></ul> <p><i>A child is fully immunised when they are up-to-date, and recorded in ACIR as having received the standard vaccination schedule for their age or are on a suitable catch-up program based on the National Immunisation Program (NIP) schedule.</i></p>
Data source:	<i>Numerator and denominator</i> — <u>Australian Childhood Immunisation Register (ACIR)</u>
Data provider:	Department of Health
Data availability	1 April 2014 to 31 March 2015
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>

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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, and recorded in ACIR as having received the standard vaccination schedule for their age or are on a suitable catch-up program based on the National Immunisation Program (NIP) schedule.*

*One or more low immunisation coverage areas will be nominated for each age cohort. Low immunisation coverage areas consist of local government areas (LGAs) (or if LGA data is unavailable Medicare Local (ML)) 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.*

*Areas of low immunisation coverage are to be agreed by each state and territory representative on Jurisdictional Immunisation Coordinators (JIC) and the Commonwealth in May of each assessment period. Any issues relating to this decision will be resolved by the JIC chair.*

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

Data provider: Department of Health

Data availability: 1 April 2014 to 31 March 2015

Cross tabulations: State and Territory, by:

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

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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 as total distributed doses (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>Jurisdictions, through a consultative process led by the Jurisdictional Immunisation Coordinators, are to select the group of NIP vaccines to be assessed for all jurisdictions for this performance benchmark 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:	Department of Health
Data availability:	1 April 2014 to 31 March 2015
Cross tabulations:	State and Territory



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## 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</u> (ACIR).</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 <math>\leq</math> 63 months</li><li>• <i>Denominator</i> — total number of children aged 60 months <math>\leq</math> 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>The baseline is the higher of:</p> <ul style="list-style-type: none"><li>• the baseline for the previous assessment period, or</li><li>• the lowest coverage rate for the previous three assessment periods.</li></ul> <p><i>A child is fully immunised when they are up-to-date, and recorded in ACIR as having received the standard vaccination schedule for their age or are on a suitable catch-up program based on the National Immunisation Program (NIP) schedule.</i></p>
Data source:	<i>Numerator and denominator</i> — <u>Australian Childhood Immunisation Register</u> (ACIR)
Data provider:	Department of Health
Data availability:	1 April 2014 to 31 March 2015
Cross tabulations:	State and Territory