

National Healthcare Agreement: PI 07–Infant and young child mortality rate, 2018

Identifying and definitional attributes

Metadata item type:	Indicator
Indicator type:	Progress measure
Short name:	PI 07–Infant and young child mortality rate, 2018
METEOR identifier:	658521
Registration status:	<ul style="list-style-type: none">• Health, Superseded 19/06/2019
Description:	Mortality rates for infants and children aged less than 5 years.
Indicator set:	National Healthcare Agreement (2018) Health , Superseded 16/06/2019
Outcome area:	Prevention Health , Standard 07/07/2010
Quality statement:	National Healthcare Agreement: PI 07-Infant and young child mortality rate, 2018 QS Health, Standard 30/01/2018

Collection and usage attributes

Computation:

Infants (<1 year old): $1,000 \times (\text{Numerator} \div \text{Denominator})$
 Children (0–4 year olds): $100,000 \times (\text{Numerator} \div \text{Denominator})$

Calculated separately for each of the two age groups, and for all Australians, Indigenous and non-Indigenous Australians.

Variability bands are to be calculated for single-year rates and aggregate rates by state/territory using the following method for estimating 95% confidence intervals:

$$CI (CR) = CR \pm 1.96 \times (CR/\sqrt{d})$$

Where d = number of deaths

CI = confidence interval

CR = crude rate

Presented as:

- number of deaths per 1,000 live births (infant)
- number of deaths per 100,000 population (child).

Rate ratios and rate differences are calculated for comparing Indigenous and non-Indigenous Australians.

Infant mortality rates: The rates for a single year use single year infant deaths for the numerator, and the number of single year live births for the denominator. The rates for 5 years of data combined use the average of 5 years data for the numerator, and the number of single year live births in the midpoint year of the 5 years for the denominator.

Child mortality rates: The rates for a single year use single year data for the numerator, and the average of 3 years (with the reference year as the middle year) for the denominator. The rates for 5 years of data combined use the average of 5 years data for the numerator and denominator.

Numerator:

- Number of deaths among infants (aged < 1 year).
- Number of deaths among children aged 0–4 years.

Numerator data elements:**Data Element / Data Set**

[Person—age, total years N\[NN\]](#)

Data Source

[ABS Death Registrations Collection](#)

Guide for use

Data source type: Administrative by-product data

Denominator:

- Number of live births; and
- Population aged 0–4 years.

Denominator data elements:

Data Element / Data Set

Data Element

Person—estimated resident population of Australia

Data Source

[ABS Census of Population and Housing Post-Enumeration Survey](#)

Guide for use

Data source type: Census-based plus administrative by-product data

Data Element / Data Set

Data Element

Person—estimated resident population of Australia

Data Source

[ABS Estimated resident population \(2011 Census-based\)](#)

Guide for use

Data source type: Census-based plus administrative by-product data
Used for the denominator for the mortality rate for children aged 1–4 years, and as a component of the denominator for the mortality rate for children aged 0–4 years.

Data Element / Data Set

Data Element

Person—estimated resident population of Australia

Data Source

[ABS Indigenous estimates and projections \(2011 Census-based\)](#)

Guide for use

Data source type: Census-based plus administrative by-product data
Used for the denominator for the mortality rate for Indigenous children aged 1–4 years, and as a component of the denominator for the mortality rate for Indigenous children aged 0–4 years.

Data Element / Data Set

[Birth—birth status, code N](#)

Data Source

[ABS birth registration data](#)

Guide for use

Data source type: Administrative by-product data
Used as the main component of the denominator for the infant mortality rate.
Include live births only, i.e. value = 1.

Disaggregation:

2014–16—State and territory.

2012–16—State and territory, by Indigenous status.

2016—Nationally, infant.

2016—Nationally, 0–4 years (not reported).

2016—Nationally, by Indigenous status (not reported).

2015—Nationally, by remoteness (0–4 years only) (Major Cities, Inner and Outer Regional combined, Remote and Very remote combined) (not reported).

Some disaggregations may result in numbers too small for publication. Disaggregation by Indigenous status will be based on data only from jurisdictions for which the quality of Indigenous identification is considered acceptable—New South Wales, Queensland, Western Australia, South Australia and Northern Territory.

Disaggregation data elements:

Data Element / Data Set

[Person—Indigenous status, code N](#)

Data Source

[ABS Death Registrations Collection](#)

Guide for use

Data source type: Administrative by-product data

Data Element / Data Set

[Person—age, total years N\[NN\]](#)

Data Source

[ABS Death Registrations Collection](#)

Guide for use

Data source type: Administrative by-product data

Data Element / Data Set

[Person—area of usual residence, statistical area level 2 \(SA2\) code \(ASGS 2011\) N\(9\)](#)

Data Source

[ABS Death Registrations Collection](#)

Guide for use

Data source type: Administrative by-product data

Used for disaggregation by state/territory and remoteness

Comments: Most recent data available for 2018 National Healthcare Agreement performance reporting: 2016.

Because of small numbers of deaths each year data are presented in 3-year (total population) or 5-year (Indigenous population) groupings (state and territory only).

Single year data will be reported for time series analysis (national level only).

A system error affected the reporting of Western Australia Aboriginal and Torres Strait Islander death registrations for 2007, 2008 and 2009 which affected the WA and national death rates reported for the 2011 and 2012 COAG Reform Council reports. These data have been revised for 2013 reporting.

Data by remoteness may be available, pending assessment of data quality.

Further details are available from the Aboriginal and Torres Strait Islander Health Performance Framework (Indicator 1.20).

<http://www.dpmc.gov.au/resource-centre/indigenous-affairs/aboriginal-and-torres-strait-islander-health-performance-framework-2014-report>

Representational attributes

Representation class: Rate
Data type: Real
Unit of measure: Life event (e.g. birth, death)
Format: N[NN].N

Indicator conceptual framework

Framework and dimensions: [Deaths](#)
[Effectiveness](#)

Data source attributes

Data sources:**Data Source**

[ABS Census of Population and Housing Post-Enumeration Survey](#)

Frequency

Every 5 years

Data custodian

Australian Bureau of Statistics

Data Source

[ABS Death Registrations Collection](#)

Frequency

Annual

Data custodian

Australian Bureau of Statistics

Data Source

[ABS Estimated resident population \(2011 Census-based\)](#)

Frequency

Quarterly

Data custodian

Australian Bureau of Statistics

Data Source

[ABS Indigenous estimates and projections \(2011 Census-based\)](#)

Frequency

Periodic

Data custodian

Australian Bureau of Statistics

Data Source

[ABS birth registration data](#)

Frequency

Annual

Data custodian

Australian Bureau of Statistics

Accountability attributes

Reporting requirements: National Healthcare Agreement

Organisation responsible for providing data: Australian Bureau of Statistics

Benchmark: [PB b-Better health: halve the mortality gap for Indigenous children under five by 2018](#)

National Partnership Agreement on Closing the Gap in Indigenous Health Outcomes:
Halve the gap in mortality rates for Indigenous children under five within a decade.

Further data development / collection required: Specification: Final, the measure meets the intention of the indicator.

Relational attributes

Related metadata references:

Supersedes [National Healthcare Agreement: PI 07–Infant and young child mortality rate, 2017](#)

- [Health](#), Superseded 30/01/2018

Has been superseded by [National Healthcare Agreement: PI 07–Infant and young child mortality rate, 2019](#)

- [Health](#), Superseded 13/03/2020

See also [National Healthcare Agreement: PB b–Better health: halve the mortality gap for Indigenous children under five by 2018, 2018](#)

- [Health](#), Superseded 19/06/2019

See also [National Healthcare Agreement: PI 01–Proportion of babies born of low birth weight, 2018](#)

- [Health](#), Superseded 19/06/2019

See also [National Healthcare Agreement: PI 06–Life expectancy, 2018](#)

- [Health](#), Superseded 19/06/2019

See also [National Healthcare Agreement: PI 08–Major causes of death, 2018](#)

- [Health](#), Superseded 19/06/2019

See also [National Healthcare Agreement: PI 16–Potentially avoidable deaths, 2018](#)

- [Health](#), Superseded 19/06/2019

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