

# National Healthcare Agreement: PI 08—Major causes of death, 2018

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# National Healthcare Agreement: PI 08–Major causes of death, 2018

## Identifying and definitional attributes

<b>Metadata item type:</b>	Indicator
<b>Indicator type:</b>	Progress measure
<b>Short name:</b>	PI 08–Major causes of death, 2018
<b>METEOR identifier:</b>	658519
<b>Registration status:</b>	<a href="#">Health!</a> , Superseded 19/06/2019
<b>Description:</b>	Age-standardised mortality rate by major cause of death, and rate ratios for Indigenous people and people living in remote or low socioeconomic areas.
<b>Indicator set:</b>	<a href="#">National Healthcare Agreement (2018)</a> <a href="#">Health!</a> , Superseded 16/06/2019
<b>Outcome area:</b>	<a href="#">Prevention</a> <a href="#">Health!</a> , Standard 07/07/2010
<b>Data quality statement:</b>	<a href="#">National Healthcare Agreement: PI 08-Major causes of death, 2018 QS</a> <a href="#">Health!</a> , Standard 30/01/2018

## Collection and usage attributes

**Computation description:** For tables disaggregated by Indigenous status:

Selected International Classification of Diseases (ICD-10) chapters for underlying causes of death plus major cause of Kidney diseases:

- Circulatory diseases (I00–I99)
- Neoplasms (cancer) (C00–D48)
- External causes of morbidity and mortality (V01–Y98)
- Endocrine, nutritional and metabolic disorders (E00–E90)
- Respiratory diseases (J00–J99)
- Digestive diseases (K00–K93)
- Kidney diseases (N00–N29)
- Certain conditions originating in the perinatal period (P00–P96)
- Infectious and parasitic diseases (A00–B99)
- Nervous system diseases (G00–G99)
- Other causes
- All causes

For disaggregations by all persons:

Each International Classification of Diseases (ICD-10) chapter for underlying cause of death:

- Certain infectious and parasitic diseases (A00–B99)
- Neoplasms (cancer) (C00–D48)
- Diseases of the blood and blood-forming organs and certain disorders involving the immune mechanism (D50–D89)
- Endocrine, nutritional and metabolic disorders (E00–E90)
- Mental and behavioural disorders (F00–F99)
- Nervous system diseases (G00–G99)
- Diseases of the eye and adnexa (H00–H59)
- Diseases of the ear and mastoid process (H60–H95)
- Circulatory diseases (I00–I99)
- Respiratory diseases (J00–J99)
- Digestive diseases (K00–K93)
- Diseases of the skin and subcutaneous tissue (L00–L99)
- Diseases of the musculoskeletal system and connective tissue (M00–M99)
- Kidney diseases (N00–N29)
- Pregnancy, childbirth and the puerperium (O00–O99)
- Certain conditions originating in the perinatal period (P00–P96)
- Congenital malformations, deformations and chromosomal abnormalities (Q00–Q99)
- Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified (R00–R99)
- External causes of morbidity and mortality (V01–Y98)
- All causes

Rates are directly age-standardised to the 2001 Australian population.

Variability bands are to be calculated for single-year rates using the method below.

Presented per 100,000 population.

**Computation:** 100,000 x (Numerator ÷ Denominator)

Variability bands are to be calculated for single-year rates using the following method for estimating 95% confidence intervals:

*Age-standardised rate:*

$$CI (ASR)_{95\%} = ASR \pm 1.96 \times \sqrt{\sum_{i=1}^i \frac{w_i^2 d_i}{n_i^2}}$$

Where  $w_i$  = the proportion of the standard population in age group  $i$

$d_i$  = the number of deaths in age group  $i$

$n_i$  = the number of people in the population in age group  $i$

**Numerator:**

Number of deaths

**Numerator data elements:**

**Data Element / Data Set**

[Person—underlying cause of death, code \(ICD-10 2nd edn\) ANN-ANN](#)

**Data Source**

[ABS Causes of Death Collection](#)

**Guide for use**

Data source type: Administrative by-product data

**Denominator:**

Total population

**Denominator data elements:**

**Data Element / Data Set**

Person—estimated resident population of Australia

**Data Source**

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

**Guide for use**

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

**Data Element / Data Set**

Person—estimated resident population of Australia

**Data Source**

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

**Guide for use**

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

**Disaggregation:**

2013, 2014, 2015 (updated for revision to Australian Bureau of Statistics (ABS) causes of death data), 2016—State and territory (total deaths—all causes only).

2013, 2014, 2015 (updated for revision to ABS causes of death data), 2016—State and territory, by ICD-10 chapter for underlying cause of death (and total).

2012–2016—State and territory, by major cause of death by Indigenous status.

2016—Nationally, by remoteness (total deaths—all causes only) (not reported).

Some disaggregation 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, South Australia, Western Australia and Northern Territory.

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

Person—underlying cause of death, code (ICD-10)

**Data Source**

[ABS Causes of Death Collection](#)

**Guide for use**

Data source type: Administrative by-product data

**Data Element / Data Set**

[Person—Indigenous status, code N](#)

**Data Source**

[ABS Causes of Death 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 Causes of Death 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:

- 2017 (total deaths)
- 2016 (cause of death)
- Aggregated data 2012–2016 (Indigenous status)

Cause of death data are final (2013), revised (2014) and preliminary (2015, 2016).

A number of updates to the ICD-10 were applied to the 2013 causes of death data. Details of the impact of these changes on the mortality data are described in [ABS Implementation of the Iris Software: Understanding Coding and Process Improvements](#).

2012 data are coded using ICD-10 (2006 version). 2013 data are coded using ICD-10 (2013 version). 2014, 2015 and 2016 data are coded using ICD-10 (2015 version).

Single year data will be reported for time series analysis.

Denominators used in the calculation of rates for the Indigenous population are ABS estimates (Series B, 2011 Census-based). Non-Indigenous estimates are only available for Census years; in the intervening years the population is calculated by subtracting the estimated Indigenous population from the total population Estimated Resident Population (ERP).

A system error affected the reporting of Western Australia (WA) 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 Council of Australian Governments' (COAG) Reform Council (CRC) reports. These data were revised for 2013 reporting.

Indigenous and non-Indigenous analysis excludes records where Indigenous status was 'not stated'.

Due to the small number of Indigenous deaths reported each year, 5-year combined data will be reported for the current reporting period. For rate calculations, the average of the numerator is divided by the mid-point ERP for the time period.

Data by remoteness and Socio-Economic Indexes for Areas (SEIFA) Index of Relative Socio-Economic Disadvantage (IRSD) may be available, pending assessment of data quality.

Further details (including historical data) are available from the Aboriginal and Torres Strait Islander Health Performance Framework (Indicator 1.22 and 1.23).

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

## Representational attributes

<b>Representation class:</b>	Rate
<b>Data type:</b>	Real
<b>Unit of measure:</b>	Person
<b>Format:</b>	N[NN].N

## Indicator conceptual framework

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

## Data source attributes

**Data sources:**

<p><b>Data Source</b></p> <p><a href="#">ABS Causes of Death Collection</a></p> <p><b>Frequency</b></p> <p>Annual</p> <p><b>Data quality statement</b></p> <p><a href="#">ABS causes of death collection, QS</a></p> <p><b>Data custodian</b></p> <p>Australian Bureau of Statistics</p>
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<p><b>Data Source</b></p> <p><a href="#">ABS Estimated resident population (2011 Census-based)</a></p> <p><b>Frequency</b></p> <p>Quarterly</p> <p><b>Data custodian</b></p> <p>Australian Bureau of Statistics</p>
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<p><b>Data Source</b></p> <p><a href="#">ABS Indigenous estimates and projections (2011 Census-based)</a></p> <p><b>Frequency</b></p> <p>Periodic</p> <p><b>Data custodian</b></p> <p>Australian Bureau of Statistics</p>
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**Accountability attributes**

**Reporting requirements:** National Healthcare Agreement

**Organisation responsible for providing data:** Australian Bureau of Statistics

**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 08–Major causes of death, 2017 Health!](#), Superseded 30/01/2018

Has been superseded by [National Healthcare Agreement: PI 08–Major causes of death, 2019 Health!](#), Superseded 13/03/2020

See also [National Healthcare Agreement: PI 06–Life expectancy, 2018 Health!](#), Superseded 19/06/2019

See also [National Healthcare Agreement: PI 07–Infant and young child mortality rate, 2018 Health!](#), Superseded 19/06/2019

See also [National Healthcare Agreement: PI 16–Potentially avoidable deaths, 2018 Health!](#), Superseded 19/06/2019