

# National Healthcare Agreement: PI 08—Major causes of death, 2021

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# National Healthcare Agreement: PI 08—Major causes of death, 2021

## 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, 2021
<b>METEOR identifier:</b>	725813
<b>Registration status:</b>	<a href="#">Health</a> , Standard 03/07/2020
<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 (2021)</a> <a href="#">Health</a> , Standard 19/11/2020
<b>Outcome area:</b>	<a href="#">Prevention</a> <a href="#">Health</a> , Standard 07/07/2010

## 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 diseases (E00–E90)
- Respiratory diseases (J00–J99)
- Digestive diseases (K00–K93)
- Genitourinary diseases (N00–N99)
- 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 diseases (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)
- Diseases of the genitourinary system (N00–N99)
- 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 \(ICD-10 2016 version\) ANN{.N}](#)

**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****Data Element**

Person—projected Indigenous population, population of Australia, total people N[N(7)]

**Data Source**

[ABS Indigenous estimates and projections \(2016 Census-based\)](#)

**Guide for use**

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

**Data Element / Data Set**

[Person—estimated resident population of Australia, total people N\[N\(7\)\]](#)

**Data Source**

[ABS Estimated resident population \(2016 Census-based\)](#)

**Guide for use**

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

**Disaggregation:**

2016, 2017 (updated for revision to Australian Bureau of Statistics (ABS) causes of death data), 2018, 2019—State and territory (total deaths—all causes only).

2016, 2017 (updated for revision to ABS causes of death data), 2018, 2019—State and territory, by ICD-10 chapter for underlying cause of death (and total).

2015–2019—State and territory, by major cause of death by Indigenous status.

2019—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—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 \(ASGS 2016\) 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

**Data Element / Data Set**

[Person—underlying cause of death, code \(ICD-10 2016 version\) ANN{.N}](#)

**Data Source**

[ABS Causes of Death Collection](#)

**Guide for use**

Data source type: Administrative by-product data

**Comments:**

Most recent data available for 2021 National Healthcare Agreement performance reporting:

- 2019 (total deaths)
- 2019 (cause of death)
- Aggregated data 2015–2019 (Indigenous status).

Cause of death data are final (2015–2016), revised (2017) and preliminary (2018, 2019).

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](#).

Data from 2018 onwards was coded using an updated version of Iris, the automated cause of death coding software. Coding updates as a result of this process are described in [Update to Iris coding software: Implementing WHO updates and improvement in coding processes](#).

2012 data are coded using ICD-10 (2006 version). 2013 data are coded using ICD-10 (2013 version). 2014, 2015, 2016 and 2017 data are coded using ICD-10 (2015 version). 2018 data are coded using ICD-10 (2016 version). 2019 data are coded using ICD-10 (2019 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, 2016 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 Indigenous population 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).

## Representational attributes

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

## Indicator conceptual framework

Framework and dimensions:	<a href="#">Deaths</a>
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## Data source attributes

**Data sources:****Data Source**

[ABS Indigenous estimates and projections \(2016 Census-based\)](#)

**Frequency**

Periodic

**Data custodian**

Australian Bureau of Statistics

**Data Source**

[ABS Causes of Death Collection](#)

**Frequency**

Annual

**Data quality statement**

[ABS causes of death collection. QS](#)

**Data custodian**

Australian Bureau of Statistics

**Data Source**

[ABS Estimated resident population \(2016 Census-based\)](#)

**Frequency**

Quarterly

**Data custodian**

Australian Bureau of Statistics

## 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.

## Source and reference attributes

**Reference documents:** Australian Bureau of Statistics (ABS) 2015. *Causes of Death, Australia, 2013*, ABS cat. no. 3303.0. Canberra: ABS. Viewed 14 May 2020, <https://www.abs.gov.au/AUSSTATS/abs@.nsf/Lookup/3303.0>Main+Features12013?OpenDocument>

ABS 2019. *Causes of Death, Australia, 2018*, ABS cat. no. 3303.0. Canberra: ABS. Viewed 15 May 2020, <https://www.abs.gov.au/AUSSTATS/abs@.nsf/Lookup/3303.0>Main+Features12018?OpenDocument>

Australian Health Ministers' Advisory Council (AHMAC), 2017. *Aboriginal and Torres Strait Islander Health Performance Framework 2017 Report*. Canberra: AHMAC. Viewed 13 May 2020, <https://www.niaa.gov.au/resource-centre/indigenous-affairs/health-performance-framework-2017-report>

## Relational attributes

### Related metadata references:

Supersedes [National Healthcare Agreement: PI 08–Major causes of death, 2020](#)  
[Health](#), Standard 13/03/2020

Has been superseded by [National Healthcare Agreement: PI 08–Major causes of death, 2022](#)  
[Health](#), Standard 24/09/2021

See also [Australian Health Performance Framework: PI 2.1.6–Potentially avoidable deaths, 2019](#)  
[Health](#), Superseded 01/12/2020

See also [Australian Health Performance Framework: PI 3.4.3–Major causes of death, 2019](#)  
[Health](#), Superseded 13/10/2021

See also [National Healthcare Agreement: PI 06–Life expectancy, 2021](#)  
[Health](#), Standard 03/07/2020

See also [National Healthcare Agreement: PI 07–Infant and young child mortality rate, 2021](#)  
[Health](#), Standard 03/07/2020

See also [National Healthcare Agreement: PI 16–Potentially avoidable deaths, 2021](#)  
[Health](#), Standard 03/07/2020