National Healthcare Agreement: PI 16–Potentially avoidable deaths, 2020

Identifying and definitional attributes

Metadata item type: Indicator

Indicator type: Progress measure

Short name: PI 16–Potentially avoidable deaths, 2020

METEOR identifier: 716490

Registration status:
- Health, Standard 13/03/2020

Description: Deaths from conditions that are potentially preventable through individualised care and/or treatable through existing primary or hospital care.

Indicator set: National Healthcare Agreement (2020)
Health, Standard 13/03/2020

Outcome area: Primary and Community Health
Health, Standard 07/07/2010

Collection and usage attributes

Population group age to: 74 years

Computation description: Deaths are defined as avoidable in the context of the present health system.

International Classification of Diseases (ICD-10, 2016 version) codes in scope are as specified below:

Table 1: Potentially avoidable deaths International Classification of Disease (ICD-10) Codes

Cause of death groups	ICD-10 Codes	Limits (age, sex)
Infections		
Selected invasive infections	A38–A41, A46, A48.1, G00, G03, J02.0, J13–J16, J18, L03	
Viral pneumonia and influenza	J10–J12	
HIV/AIDS	B20–B24	
Cancer		
Cancer of the colon, sigmoid, rectum and anus	C18–C21, C26.0	
Skin	C43, C44	
Breast	C50	Female
Cervix	C53	
Prostate	C61	
Kidney	C64	
Thyroid	C73	
Hodgkin's disease	C81	

Acute lymphoid leukaemia/Acute lymphoblastic leukaemia	C91.0	0-44 years
Diabetes	E10–E14	
Diseases of the circulatory system		
Rheumatic and other valvular heart disease	I00–I09, I33–I37	
Hypertensive heart and renal disease	I10–I13	
Ischaemic heart disease	I20–I25	
Cerebrovascular diseases	I60–I69	
Heart failure	I50, I51.1, I51.2, I51.4, I51.5	
Pulmonary embolism	I26	
Diseases of the genitourinary system		
Renal failure	N17–N19	
Diseases of the respiratory system		
COPD	J40–J44	
Asthma	J45, J46	
Diseases of the digestive system		
Peptic ulcer disease	K25–K27	
Maternal & infant causes		
Complications of the perinatal period	P00–P96	
Other conditions		
Complications of pregnancy, labour or the puerperium	O00–O99	
Selected external causes of morbidity and mortality		
Falls	W00–W19	
Fires, burns	X00–X09	
Suicide and self-inflicted injuries	X60–X84, Y87.0	
Misadventures to patients during surgical and medical care	Y60–Y69	
Medical devices associated with adverse incidents in diagnostic and therapeutic use	Y70–Y82	
Surgical and other medical procedures as the cause of abnormal reaction of the patient, or of later complication, without mention of misadventure at the time of the procedure	Y83, Y84	
Other external causes of morbidity and mortality		
Transport accidents	V01–V99	
Exposure to inanimate mechanical forces	W20–W49	
Exposure to animate mechanical forces	W50–W64	
Accidental drowning and submersion	W65–W74	
Other accidental threats to breathing	W75–W84	
Exposure to electric current, radiation and extreme ambient air temperature and pressure	W85–W99	
Contact with heat and hot substances	X10–X19	

Contact with venomous animals and plants	X20–X29	
Exposure to forces of nature	X30–X39	
Accidental poisoning by and exposure to noxious substances	X40–X49	
Overexertion, travel and privation	X50–X57	
Accidental exposure to other and unspecified factors	X58,X59	
Assault	X85–Y09	
Event of undetermined intent	Y10–Y34	
Legal interventions and operations of war	Y35, Y36	
Drugs, medicaments and biological substances causing adverse effects in therapeutic use	Y40–Y59	
Sequelae of external causes of morbidity and mortality	Y85, Y86, Y87.1–Y89	

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:

Number

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

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

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 of persons aged less than 75 categorised as potentially avoidable

Numerator data elements:

Data Element / Data Set

Data Element

Person—age

Data Source

ABS Causes of Death Collection

Guide for use

Data source type: Administrative by-product data

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: Population aged less than 75

Denominator data elements:

Data Element / Data Set

Data Element

Person—projected Indigenous 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 plus administrative by-product data

Data Element / Data Set

Person—age, total years N[NN]

Data Source

ABS Estimated resident population (2016 Census-based)

Guide for use

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

Data Element / Data Set

Person—age, total years N[NN]

Data Source

ABS Indigenous estimates and projections (2016 Census-based)

Guide for use

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

Disaggregation:

2015, 2016, 2017 (resupplied for revision to ABS cause of death data), 2018—State and territory.

2015, 2016, 2017 (updated for revision to ABS cause of death data), 2018—Nationally, by Indigenous status (not reported).

2011–2015, 2012–2016, 2013–2017 (updated for revision to ABS cause of death data), 2014–2018—State and territory, by Indigenous status.

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, South Australia, Western Australia, 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

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 2020 National Healthcare Agreement performance reporting:

- 2018 (Total population and Indigenous status at national level)
- Aggregated data 2014–2018 (Indigenous status)

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

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).

Due to small number of Indigenous deaths reported each year, 5-year combined data will be reported for state and territory disaggregations.

Estimated Residential Population (ERP) data for the total population and the Indigenous population are sourced from ERP rebased after the 2016 Census.

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

Representational attributes

Representation class: Rate

Data type: Real

Unit of measure: Person

Format: NN[N].N

Indicator conceptual framework

Framework and dimensions: Deaths

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

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 (ABS).

Further data development / collection required: Specification: Minor work required, the measure needs minor work to meet the intention of the indicator.

Source and reference attributes

Reference documents: ABS (Australian Bureau of Statistics) 2015. Causes of Death, Australia, 2013. ABS cat.no. 3303.0. Canberra: ABS

Relational attributes

Related metadata references: See also Australian Health Performance Framework: PI 1.2.1–Rates of current daily smokers, 2019

- Health, Standard 09/04/2020

See also Australian Health Performance Framework: PI 1.2.1–Rates of current daily smokers, 2020

- Health, Standard 13/10/2021

See also Australian Health Performance Framework: PI 1.2.3–Levels of risky alcohol consumption, 2019

- Health, Standard 09/04/2020

See also Australian Health Performance Framework: PI 1.2.3–Levels of risky alcohol consumption, 2020

- Health, Standard 13/10/2021

See also Australian Health Performance Framework: PI 1.3.1–Prevalence of overweight and obesity, 2019

- Health, Standard 09/04/2020

See also Australian Health Performance Framework: PI 1.3.1–Prevalence of overweight and obesity, 2020

- Health, Standard 13/10/2021

See also Australian Health Performance Framework: PI 2.1.4–Selected potentially preventable hospitalisations, 2019

- Health, Standard 09/04/2020

See also Australian Health Performance Framework: PI 2.1.4–Selected potentially preventable hospitalisations, 2020

- Health, Standard 01/12/2020

See also Australian Health Performance Framework: PI 2.1.6–Potentially avoidable deaths, 2019

- Health, Standard 09/04/2020

See also Australian Health Performance Framework: PI 2.1.6–Potentially avoidable deaths, 2020

- Health, Standard 01/12/2020

See also National Healthcare Agreement: PI 03–Prevalence of overweight and obesity, 2020

- Health, Standard 13/03/2020

See also National Healthcare Agreement: PI 04–Rates of current daily smokers, 2020

- Health, Standard 13/03/2020

See also National Healthcare Agreement: PI 05–Levels of risky alcohol consumption, 2020

- Health, Standard 13/03/2020

See also National Healthcare Agreement: PI 06–Life expectancy, 2020

- Health, Standard 13/03/2020

See also National Healthcare Agreement: PI 07–Infant and young child mortality rate, 2020

- Health, Standard 13/03/2020

See also National Healthcare Agreement: PI 08–Major causes of death, 2020

- Health, Standard 13/03/2020

Supersedes National Healthcare Agreement: PI 16–Potentially avoidable deaths, 2019

- Health, Superseded 13/03/2020

Has been superseded by National Healthcare Agreement: PI 16–Potentially avoidable deaths, 2021

- Health, Standard 03/07/2020

See also National Healthcare Agreement: PI 18–Selected potentially preventable hospitalisations, 2020

- Health, Standard 13/03/2020

See also National Healthcare Agreement: PI 23–Unplanned hospital readmission rates, 2020

- Health, Standard 13/03/2020