Australian Health Performance Framework: PI 3.4.1– Infant and young child mortality rate, 2024

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Australian Health Performance Framework: PI 3.4.1– Infant and young child mortality rate, 2024

Identifying and definitional attributes

Metadata item type: Indicator

Indicator type: Indicator

Short name: AHPF PI 3.4.1–Infant and young child mortality rate, 2024

METEOR identifier: 787016

Registration status: Health, Standard 02/02/2024

Description: Mortality rates for infants and children aged less than 5 years.

Indicator set: Australian Health Performance Framework, 2024
Health, Qualified 21/02/2024

Collection and usage attributes

Computation:

Infants (under 1 year old):
(Numerator ÷ Denominator) x 1,000

Children (0–4 year olds):
(Numerator ÷ Denominator) x 100,000

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

Presented as:

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

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.

Child mortality rates: The rates for a single year use single year data for the numerator, and the number of single year population for the denominator.

Numerator:

- Number of deaths among infants (aged under 1).
- Number of deaths among children (aged 0–4).

Numerator data elements:

Data Element / Data Set

Data Element

Person—age at death, NNNN

Data Source

AIHW National Mortality Database

Guide for use

Data source type: Administrative by-product data

Denominator:

- Number of live births and under 1 year old (infant)
- Population aged 0–4 years (child).

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 data plus administrative by-product data
Used for 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 infant and child mortality rate. Include live births only, i.e., value = 1.

Data Element / Data Set

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

Data Source

ABS Estimated resident population (2021 Census-based)

Guide for use

Data source type: Census based data plus administrative by-product data
Used for the denominator for the mortality rate for children aged 0–4 years.

Disaggregation:

2008–2021—National by sex, infants aged under 1.

2008–2021—National by sex, children aged 0–4.

2008–2021—State and territory by sex, infants aged under 1.

2008–2021—State and territory by sex, children aged 0–4.

2008–2021—National by Indigenous status and sex, infants aged under 1.

2008–2021—National by Indigenous status and sex, children aged 0–4.

2011–2021—Primary Health Network, infants aged under 1.

2011–2021—Primary Health Network, children aged 0–4.

2011–2021—National by remoteness areas (Australian Statistical Geography Standard (ASGS) Remoteness Structure), infants aged under 1.

2011–2021—National by remoteness areas (ASGS Remoteness Structure), children aged 0–4.

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, Western Australia, South Australia and Northern Territory.

Disaggregation data elements:

Data Element / Data Set

Data Element

Person—age at death, NNNN

Data Source

AIHW National Mortality Database

Guide for use

Data source type: Administrative by-product data

Data Element / Data Set

Person—Indigenous status, code N

Data Source

AIHW National Mortality Database

Guide for use

Data source type: Administrative by-product data

Data Element / Data Set

Person—sex, code X

Data Source

AIHW National Mortality Database

Guide for use

Data source type: Administrative by-product data

Data Element / Data Set

Address—statistical area, level 2 (SA2) code (ASGS Edition 3) N(9)

Data Source

AIHW National Mortality Database

Guide for use

Data source type: Administrative by-product data
Used for disaggregation by state/territory, Primary Health Network and remoteness areas.

Data Element / Data Set

Person—area of usual residence, statistical area level 2 (SA2) code (ASGS Edition 3) N(9)

Data Source

AIHW National Mortality Database

Guide for use

Data source type: Administrative by-product data

Used for disaggregation by state/territory and remoteness

Comments: Most recent data available for 2024 Australian Health Performance Framework reporting: 2021.

Deaths registered in 2019 and earlier are based on the final version of cause of death data; deaths registered in 2020 are based on the revised version; and deaths registered in 2021 are based on the preliminary version. Revised and preliminary versions are subject to further revision by the Australian Bureau of Statistics (ABS).

Deaths registered in 2021 have undergone a targeted preliminary revision to three causes of deaths: Other ill-defined and unspecified causes of mortality (R99); Exposure to unspecified factor (X59); Unspecified event, undetermined intent (Y34). A full revisions process will be undertaken in 2024. For further information please refer to ABS Causes of Death, Australia, 2021, methodology Data quality: 2021 data considerations, Coroner certified deaths data and Technical note: Causes of death revisions, 2021 preliminary revision.

Data for the registration years 2013–2020 have been updated to include data quality and completeness activities conducted by the ABS. These include: additional Victorian death registrations in 2013–2016 that had not previously been included in the National Mortality Database; revisions to associated causes of death in Western Australia (2016–2020); and updates to deaths due to Other ill-defined and unspecified causes of mortality (R99) in the 2017 reference year. As a result, data may not equal previously published data for these years. For more detail, refer to Technical note: Victorian additional registrations (2013–2016), Technical note: Updates to doctor certified causes of death data, Western Australia, 2016 to 2020 and Data quality: Historical considerations in Causes of death, Australia methodology, 2021.

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.

Prior to 2013, mortality data were coded using ICD-10 2006 version. 2013 data were coded using ICD-10 2013 version; 2014–2017 data were coded using ICD-10 2015 version; 2018 data were coded using ICD-10 2016 version; 2019 data were coded using the ICD-10 2019 version; 2020 data were coded using ICD-10 2020 version; 2021 data were coded using ICD-10 2021 version.

Single year data are reported for time series analysis.

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: 4. 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

AIHW National Mortality Database

Frequency

Annual

Data custodian

Australian Institute of Health and Welfare

Data Source

ABS birth registration data

Frequency

Annual

Data custodian

Australian Bureau of Statistics

Data Source

ABS Estimated resident population (2021 Census-based)

Frequency

Quarterly

Data custodian

Australian Bureau of Statistics

Accountability attributes

Reporting requirements: Australian Health Performance Framework

Organisation responsible for providing data: Australian Institute of Health and Welfare

Accountability: Australian institute of Health and Welfare

Source and reference attributes

Submitting organisation: Australian Institute of Health and Welfare

Relational attributes

Related metadata references:

Supersedes Australian Health Performance Framework: PI 3.4.1–Infant and young child mortality rate, 2021
Health, Superseded 02/02/2024

See also Australian Health Performance Framework: PI 2.1.6–Potentially avoidable deaths, 2024
Health, Standard 02/02/2024

See also Australian Health Performance Framework: PI 3.4.3–Major causes of death, 2024
Health, Standard 02/02/2024

See also Australian Health Performance Framework: PI 3.4.4–Mortality due to suicide, 2024
Health, Standard 02/02/2024