

National Indigenous Reform Agreement: PI 10- Mortality rates (and excess deaths) by leading causes for children under 5, 2012

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National Indigenous Reform Agreement: PI 10-Mortality rates (and excess deaths) by leading causes for children under 5, 2012

Identifying and definitional attributes

Metadata item type:	Indicator
Indicator type:	Indicator
Short name:	PI 10-Mortality rates (and excess deaths) by leading causes for children under 5, 2012
METEOR identifier:	438617
Registration status:	Indigenous , Superseded 13/06/2013
Description:	<p>There are two measures for this indicator:</p> <p>Measure (1a): Mortality rates for children aged less than five years, by leading causes of death (ICD-10 chapter level), by Indigenous status</p> <p>and</p> <p>Measure (1b): Excess deaths for Indigenous children aged less than five years, by leading causes of death (ICD-10 chapter level).</p>
Rationale:	High level of public interest. Key measure for the ' <i>Closing the Gap</i> ' indicator of halving the gap in mortality rates for children under 5.
Indicator set:	National Indigenous Reform Agreement (2012) Indigenous , Superseded 13/06/2013
Outcome area:	Indigenous children have the same health outcomes as other Australian children Indigenous , Standard 21/07/2010
Data quality statement:	National Indigenous Reform Agreement: PI 10-Mortality rates (and excess deaths) by leading causes for children under 5, 2012 QS Indigenous , Superseded 13/06/2013

Collection and usage attributes

Population group age to:	<p>This indicator uses a number of different population group age bands:</p> <ul style="list-style-type: none">• For perinatal: 28 days of birth or less (refer to definition under computation)• For infants: Less than 1 year of age• For children aged 1-4 years: Less than 5 years of age• For children aged 0-4 years: Less than 5 years of age.
Computation description:	<p>Rates are calculated for Indigenous and non-Indigenous.</p> <p>Rate ratios and rate differences are calculated for Indigenous: non-Indigenous.</p> <p>Note: Causes of death to be listed from highest to lowest Indigenous percentage for the most recent period (5 years combined).</p> <p>Excludes deaths where Indigenous status was not stated.</p> <p>Presentation:</p> <p>(1a): Number; percentage; rate per 1,000 of all births (perinatal); rate per 1,000 live births (infant); rate per 100,000 persons (children 1-4 and children 0-4); rate ratio and rate difference.</p> <p>(1b): Excess deaths: Number (observed, expected, excess) and percentage (per cent of excess deaths).</p> <p>Note: causes to be listed from highest to lowest Indigenous percentage.</p>

Definitions:

'Perinatal mortality' is defined as death of an infant within 28 days of birth (neonatal death) or of a fetus (unborn child) of at least 20 completed weeks of gestation or with a birth weight of at least 400 grams.

'Leading causes of death' are ICD-10 codes used for leading causes of death in the Aboriginal and Torres Strait Islander Health Performance Framework:

Perinatal mortality:

Main condition in the fetus/infant

- Disorders related to length of gestation and fetal growth (P05-P08)
- Respiratory and cardiovascular disorders specific to the perinatal period (P20-P29)
- Infections specific to the perinatal period (P35-P39)
- Other conditions originating in the perinatal period (P10-P15 and P50-P96)
- Congenital malformations, deformations and chromosomal abnormalities (Q00-Q99)
- Other conditions
- Total deaths

Main condition in the mother, fetus and newborn affected by:

- Maternal conditions that may be unrelated to present pregnancy (P00)
- Maternal complications of pregnancy (P01)
- Complications of placenta, cord and membranes (P02)
- Other complications of labour and delivery and noxious influences transmitted via placenta or breast milk (P03-P04)
- Total deaths

Infant mortality:

- Certain infectious and parasitic diseases (A00-B99)
- Diseases of the circulatory system (I00-I99)
- Diseases of the respiratory system (J00-J99)
- 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)

Sudden infant death syndrome (R95)

- External causes of morbidity and mortality (V01-Y98)
- Other causes
- All causes

Child 1-4 mortality:

- Symptoms, signs and abnormal clinical and laboratory findings, not elsewhere classified (R00-R99)
- Congenital malformations, deformations and chromosomal abnormalities (Q00-Q99)
- External causes of morbidity and mortality (V01-Y98)
- Diseases of the nervous system (G00-G99)
- Certain infectious and parasitic diseases (A00-B99)
- Diseases of the circulatory system (I00-I99)
- Other Causes
- All causes

Child 0-4 mortality:

- Certain infectious and parasitic diseases (A00-B99)
- Diseases of the circulatory system (I00-I99)
- Diseases of the respiratory system (J00-J99)
- 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)
- Diseases of the nervous system (G00-G99)
- Other causes
- All causes

Computation:

(1a):

Percentage: number of deaths by cause divided by total deaths

Perinatal and infant mortality rates: 1,000 x (Numerator÷ Denominator)

Children 1-4 and 0-4 mortality rates: 100,000 x (Numerator÷ Denominator)

Rate ratio: Indigenous rate divided by non-Indigenous age standardised rate

Rate difference: Indigenous rate minus non-Indigenous rate

(1b):

Excess deaths: Observed number of Indigenous deaths among perinatal, infants, children aged 1-4 years and children aged 0-4 years /ess expected number of deaths among Indigenous children of the corresponding age group if the age specific rate of the non-Indigenous population for the corresponding period was applied to the Indigenous population.

Numerator:

Perinatal: Number of perinatal deaths (foetal and neo-natal)

Infant: Number of deaths among children aged less than 1 year

Children 1-4: Number of deaths among children aged 1 to 4 years

Children 0-4: Number of deaths among children aged 0 to 4 years

Numerator data elements:

Data Element / Data Set

Number of foetal and neo-natal deaths

Data Source

[ABS Perinatal Deaths Collection](#)

Guide for use

Data source type: Administrative by-product data

Perinatal numerator data source

Data Element / Data Set

[Birth—birth status, code N](#)

Data Source

[ABS Perinatal Deaths Collection](#)

Guide for use

Data source type: Administrative by-product data

Perinatal numerator data source

Data Element / Data Set

[Person—date of birth, DDMMYYYY](#)

Data Source

[ABS Causes of Death Collection](#)

Guide for use

Data source type: Administrative by-product data

Infant and child numerator data source

Data Element / Data Set

[Person—date of death, DDMMYYYY](#)

Data Source

[ABS Causes of Death Collection](#)

Guide for use

Data source type: Administrative by-product data

Infant and child numerator data source

Data Element / Data Set

[Person—age, total years N\[NN\]](#)

Data Source

[ABS Causes of Death Collection](#)

Guide for use

Data source type: Administrative by-product data

Infant and child numerator data source

Denominator:

Perinatal: Number of all births (including live births, and stillbirths of at least 20 completed weeks of gestation or with a birth weight of at least 400 grams).

Infant: Number of live births

Children 1-4: Population aged 1-4 years

Children 0-4: Population aged 0-4 years

Denominator data elements:

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

Perinatal denominator data source

Data Element / Data Set

[Person—age, total years N\[NN\]](#)

Data Source

[ABS Indigenous experimental estimates and projections \(2001 Census-](#)

[based\)](#)

Guide for use

Data source type: ERP is derived from Census, PES and estimates of fertility, mortality, net migration, etc.

Children aged 1-4 years and 0-4 years denominator data source

Data Element / Data Set

[Person—age, total years N\[NN\].N](#)

Data Source

[ABS Estimated resident population \(total population\)](#)

Guide for use

Data source type: ERP is derived from Census, PES and estimates of fertility, mortality, net migration, etc.

Children aged 1-4 years and 0-4 years denominator data source

Data Element / Data Set

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

Data Source

[ABS Estimated resident population \(total population\)](#)

Guide for use

Data source type: Estimated resident population (ERP) is derived from Census, Post-enumeration survey (PES) and estimates of fertility, mortality, net migration, etc.

Children aged 1-4 years and 0-4 years denominator data source

Data Element / Data Set

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

Data Source

[ABS Indigenous experimental estimates and projections \(2001 Census-based\)](#)

Guide for use

Data source type: ERP is derived from Census, PES and estimates of fertility, mortality, net migration, etc.

Children aged 1-4 years and 0-4 years denominator data source

Disaggregation:

Measure 1a)

Current period - 2005-2009:

For Indigenous and non-Indigenous (numbers, rates, percentage, rate ratios, and rate differences):

- National by leading cause of death including total (ICD-10 chapter level and some sub-chapter level) by age group (perinatal, infant, child aged 1-4 years, and child aged 0-4 years), by Indigenous status.

Measure 1b)

For Indigenous only (number -observed, expected, excess; and per cent of excess deaths):

- National by leading cause of excess deaths (ICD-10 chapter level) for child aged 0-4 years.

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—Indigenous status, code N](#)

Data Source

[ABS Perinatal Deaths Collection](#)

Guide for use

Data source type: Administrative by-product data

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

Data Element / Data Set

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

Data Source

[ABS Perinatal Deaths Collection](#)

Guide for use

Data source type: Administrative by-product data

Data Element / Data Set

[Person—geographic location, code \(ASGC 2008\) NNNNN](#)

Data Source

[ABS Perinatal Deaths Collection](#)

Guide for use

Data source type: Administrative by-product data

Data Element / Data Set

[Person—area of usual residence, geographical location code \(ASGC 2008\) NNNNN](#)

Data Source

[ABS Causes of Death Collection](#)

Guide for use

Data source type: Administrative by-product data

Comments:

Most recent data available for 2012 CRC report is 2009.

Data are by reference year.

Aggregated data (2005-2009) will be reported for the current reporting period.

Single year data for children aged under 5 years by leading cause of death are not required as the data are too small to identify trends. The CRC may reconsider this for future reports.

Disaggregation by Indigenous status will be based on data only from jurisdictions for which the quality of Indigenous identification is considered acceptable.

At this stage, only selected states and territories (NSW, Qld, WA, SA and NT) are considered of accepted quality for reporting Indigenous deaths for all ages.

National rates should include these five states and territories only.

Indigenous child and particularly infant mortality data is subject to high variability due to small numbers of deaths among children aged 0 to 4 years.

Due to small number of Indigenous deaths reported each year, 5 year combined data are recommended for reporting for the current reporting period.

Disaggregation by leading causes of death is recommended to be reported at the national level only and not by state/territory due to small numbers.

Baseline year for NIRA target (Halve the child mortality gap within a decade) is 2008; baseline year for this indicator is 2008; target year is 2018.

Representational attributes

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

Indicator conceptual framework

Data source attributes

Data sources:

Data Source

[ABS birth registration data](#)

Frequency

Annual

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 Indigenous experimental estimates and projections \(2001 Census-based\)](#)

Frequency

Periodic

Data quality statement

[ABS Indigenous experimental estimates and projections, QS](#)

Data custodian

Australian Bureau of Statistics

Data Source

[ABS Perinatal Deaths Collection](#)

Frequency

Annual

Data custodian

Australian Bureau of Statistics

Data Source

[ABS Estimated resident population \(total population\)](#)

Frequency

Quarterly

Data quality statement

[ABS Estimated resident population \(total population\). QS](#)

Data custodian

Australian Bureau of Statistics

Accountability attributes

Organisation responsible for providing data: Australian Bureau of Statistics (ABS).

Further data development / collection required: Specification: Long-term.
Improve the quality of Indigenous identification in deaths data.

Source and reference attributes

Steward: [National Indigenous Reform Agreement Performance Information Management Group](#)

Relational attributes

Related metadata references: Supersedes [National Indigenous Reform Agreement: PI 10-Mortality rates \(and excess deaths\) by leading causes for children under 5, 2011](#)
[Indigenous](#), Superseded 01/07/2012

Has been superseded by [National Indigenous Reform Agreement: PI 06-Under five mortality rate by leading cause, 2013](#)
[Indigenous](#), Superseded 13/12/2013

See also [National Healthcare Agreement: PB 09-Halve the mortality gap for Indigenous children under five within a decade, 2012](#)
[Health!](#), Superseded 25/06/2013
[Indigenous](#), Standard 11/09/2012

See also [National Healthcare Agreement: PI 19-Infant and young child mortality rate, 2012](#)
[Health!](#), Superseded 25/06/2013