National Indigenous Reform Agreement: PI 10- Mortality rates (and excess deaths) by leading causes for children under 5, 2011

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National Indigenous Reform Agreement: PI 10-Mortality rates (and excess deaths) by leading causes for children under 5, 2011

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, 2011

METEOR identifier: 425760

Registration status: Indigenous, Superseded 01/07/2012

Description: There are two measures for this indicator:

Measure (1a): Mortality rates for children aged less than five years, by leading causes of death (ICD-10 chapter level), by Indigenous status.

Measure (1b): Excess deaths for Indigenous children aged less than five years, by leading causes of death (ICD-10 chapter level).

Rationale: High level of public interest. Key measure for the *'Closing the Gap'* indicator of halving the gap in mortality rates for children under 5.

Indicator set: National Indigenous Reform Agreement (2011)
Indigenous, Superseded 01/07/2012

Outcome area: Indigenous children have the same health outcomes as other Australian children
Indigenous, Standard 21/07/2010

Collection and usage attributes

Population group age to: Children under 5 years

Computation description: Rate ratios and rate differences are calculated for Indigenous:non-Indigenous.

Presentation:

(1a):
Percentage

Per 1,000 births (perinatal and infant)

Per 100,000 persons (children 1-4 and children 0-4)

(1b): Excess deaths: number

Note: causes to be listed from highest to lowest Indigenous percentage.

Definitions:

'Perinatal mortality' is defined as death of an infant within 28 days of birth (neonatal death) or of a fetus (unborn child) that weighs at least 400 grams or, if birth weight is unavailable, at gestational age of 20 weeks or more.

'Leading causes of death' are 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 disorders originating in the perinatal period (P90-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)

(1b):

Excess deaths: Observed number of Indigenous deaths among perinatal, infants, children aged 1-4 years and children aged 0-4 years *less* expected number of deaths among Indigenous children of the corresponding age group if the age specific rate of the non-Indigenous population 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 1-4 years

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

Numerator data elements:

Data Element / Data Set

Data Element

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 live births and stillbirths

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 assumptions on future fertility, mortality, net migration, etc.

Child 1-4 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 assumptions on

future fertility, mortality, net migration, etc.

Child 1-4 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 assumptions on future fertility, mortality, net migration, etc.

Child 1-4 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 assumptions on future fertility, mortality, net migration, etc.

Child 1-4 and 0-4 years denominator data source

Disaggregation: National by Indigenous status, by leading causes of death (ICD-10 chapter level).

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—area of usual residence, geographical location code (ASGC 2007) NNNNN

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, geographical location code (ASGC 2007) NNNNN

Data Source

ABS Perinatal Deaths Collection

Guide for use

Data source type: Administrative by-product data

Comments:

Most recent data available for 2011 CRC report is 2008.

Aggregated data (2004-2008) will be reported for the current reporting period.

Single year data (2007, 2008) will be reported for the leading cause of death for infants and 0-4 year olds ('Certain conditions originating in the perinatal period') for time series analyses (national level only).

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 & 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 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.

Perinatal data from the NPDC is unable to be reported by cause of death. Therefore, ABS death registrations data is recommended for reporting perinatal mortality rates for this indicator.

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

Framework and dimensions: Deaths

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.

Relational attributes

Related metadata references:

Supersedes National Indigenous Reform Agreement: P10-Mortality rates (and excess deaths) for children under 5 by leading causes, 2010
Community Services (retired), Superseded 04/04/2011

Has been superseded by National Indigenous Reform Agreement: PI 10-Mortality rates (and excess deaths) by leading causes for children under 5, 2012
Indigenous, Superseded 13/06/2013

See also National Healthcare Agreement: PB 09-Halve the mortality gap for Indigenous children under five within a decade, 2011
Health, Superseded 30/10/2011

See also National Healthcare Agreement: PI 19-Infant and young child mortality rate, 2011
Health, Superseded 30/10/2011