

National Indigenous Reform Agreement: PI 12- Proportion of babies born of low birth weight, 2012

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National Indigenous Reform Agreement: PI 12- Proportion of babies born of low birth weight, 2012

Identifying and definitional attributes

Metadata item type:	Indicator
Indicator type:	Indicator
Short name:	PI 12-Proportion of babies born of low birth weight, 2012
METEOR identifier:	438630
Registration status:	Indigenous , Superseded 13/06/2013
Description:	The incidence of low birth weight among live-born babies, of mothers by Indigenous status.
Rationale:	Low birth weight is associated with increased risk of poor health and death during infancy and increased prevalence of a number of chronic diseases in adulthood. Low birth weight is a particular issue for Indigenous Australians.
Indicator set:	National Indigenous Reform Agreement (2012) Indigenous , Superseded 13/06/2013
Outcome area:	Indigenous children are born and remain healthy Indigenous , Standard 21/07/2010
Data quality statement:	National Indigenous Reform Agreement: PI 12-Proportion of babies born of low birth weight, 2012 QS Indigenous , Superseded 13/06/2013

Collection and usage attributes

Computation description:	Rates are calculated for Indigenous and non-Indigenous. Rate ratios and rate differences are calculated for Indigenous: non-Indigenous. For variability bands: More work is to be undertaken by the AIHW regarding the use of variability bands for perinatal data for COAG reporting. For trends: percentage change and statistical significance of change is to be calculated (required for CRC reporting). <u>Presentation:</u> Number, rate per 100 infants (percentage), rate ratio and rate difference. 'Low birth weight' is defined as less than 2500 grams. Excludes multiple births, stillbirths, and births with unknown birthweight. Analysis by state/territory is based on the usual residence of the mother. Excludes Australian non-residents of external territories and where state/territory of residence was not stated.
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Computation:

Rate: $100 \times (\text{Numerator} \div \text{Denominator})$.

Rate ratio: Indigenous rate divided by non-Indigenous rate.

Rate difference: Indigenous rate minus non-Indigenous rate.

Percentage change: Calculated by multiplying the average annual change over the period by the number of data points less 1. This is then divided by the rate for the first year in the series and multiplied by 100.

The average annual change in rates, rate ratios and rate differences are calculated using linear regression which uses the least squares method to calculate a straight line that best fits the data and returns an array that best describes the line. The simple linear regression line, $Y = a + bX$, or 'slope' estimate was used to determine the average annual change in the data over the period. The formula used to calculate the slope estimate and standard error of the slope in Microsoft Excel is:

LINEST: (known_y's, known_x's, true) entered as an array formula (Ctrl, Shift, Enter).

Statistical significance of change: More work to be undertaken by the AIHW regarding the use and methodology for statistical significance of change for perinatal data.

Numerator:

Number of low birth weight live-born singleton infants.

Numerator data elements:

Data Element / Data Set

[Birth—birth weight, total grams NNNN](#)

Data Source

[AIHW National Perinatal Data Collection \(NPDC\)](#)

NMDS / DSS

[Perinatal NMDS 2008-2010](#)

Guide for use

Data source type: Administrative by-product data

Data Element / Data Set

[Birth—birth status, code N](#)

Data Source

[AIHW National Perinatal Data Collection \(NPDC\)](#)

NMDS / DSS

[Perinatal NMDS 2008-2010](#)

Guide for use

Data source type: Administrative by-product data

Data Element / Data Set

[Birth event—birth plurality, code N](#)

Data Source

[AIHW National Perinatal Data Collection \(NPDC\)](#)

NMDS / DSS

[Perinatal NMDS 2008-2010](#)

Guide for use

Data source type: Administrative by-product data

Denominator:

Number of live-born singleton infants with known birthweight

Denominator data elements:

Data Element / Data Set

[Birth—birth status, code N](#)

Data Source

[AIHW National Perinatal Data Collection \(NPDC\)](#)

NMDS / DSS

[Perinatal NMDS 2008-2010](#)

Guide for use

Data source type: Administrative by-product data

Data Element / Data Set

[Birth event—birth plurality, code N](#)

Data Source

[AIHW National Perinatal Data Collection \(NPDC\)](#)

NMDS / DSS

[Perinatal NMDS 2008-2010](#)

Guide for use

Data source type: Administrative by-product data

Disaggregation:

Current Period – (2007-2009):

For Indigenous and non-Indigenous (number, rate, rate ratio, and rate difference):

- National and state/territory by Indigenous status

Time series—2007, 2008 (previously supplied); 2009 (required for 2012 reporting):

For Indigenous and non-Indigenous (number, rate, rate ratio, rate difference, and percentage change. Variability bands and statistical significance of change to be advised by the AIHW):

- National and state/territory by Indigenous status.

Disaggregation data elements:

Data Element / Data Set

[Person—Indigenous status, code N](#)

Data Source

[AIHW National Perinatal Data Collection \(NPDC\)](#)

NMDS / DSS

[Perinatal NMDS 2008-2010](#)

Guide for use

Data source type: Administrative by-product data.

Used for Indigenous status of infant which currently is based solely on the Indigenous status of the mother.

Data Element / Data Set

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

Data Source

[AIHW National Perinatal Data Collection \(NPDC\)](#)

NMDS / DSS

[Perinatal NMDS 2008-2010](#)

Guide for use

Data source type: Administrative by-product data

Comments:

Most recent data available for 2012 CRC report is 2009.

Aggregated data (2007 to 2009) will be reported for the current reporting period.

Single year data (2007, 2008 and 2009) will be reported for time series; noting that previously supplied data will be used unless a resupply is provided.

Information is included in the National Perinatal Data Collection (NPDC) for all live births and still births of at least 400 grams birthweight or at least 20 weeks gestation

Currently available data on Indigenous status of infants is based solely on the Indigenous status of the mother.

Disaggregation by Indigenous status is recommended to be reported using three-year combined data for the current reporting period due to the small number of low birthweight infants born to Indigenous mothers each year. Single year data is to be reported for time series.

To report trends, the COAG Reform Council will separately request percentage change and statistical significance testing for this indicator directly from the data provider (AIHW).

More work is to be undertaken by the AIHW regarding the use of variability bands for perinatal data for COAG reporting.

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: Percentage

Data type: Real

Unit of measure: Person
Format: N[N].N

Indicator conceptual framework

Framework and dimensions: [Health Conditions](#)

Data source attributes

Data sources:

Data Source

[AIHW National Perinatal Data Collection \(NPDC\)](#)

Frequency

Calendar years ending 31 December each year

Data custodian

Australian Institute of Health and Welfare

Accountability attributes

Reporting requirements: National Indigenous Reform Agreement.

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

Further data development / collection required: Specification: Long-term.

A data item for Indigenous status of the baby will be added to the perinatal NMDS for collection from July 2012 onwards.

Source and reference attributes

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

Relational attributes

Related metadata references: Supersedes [National Indigenous Reform Agreement: PI 12-Proportion of babies born of low birth weight, 2011](#)
[Indigenous](#), Superseded 01/07/2012

Has been superseded by [National Indigenous Reform Agreement: PI 07-Proportion of babies born of low birth weight, 2013](#)
[Indigenous](#), Superseded 13/12/2013

See also [National Healthcare Agreement: PI 01-Proportion of babies born of low birth weight, 2012](#)
[HealthI](#), Superseded 25/06/2013