# National Core Maternity Indicators: PI 04–Apgar score of less than 7 at 5 minutes for births at or after term, 2019

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# National Core Maternity Indicators: PI 04–Apgar score of less than 7 at 5 minutes for births at or after term, 2019

## Identifying and definitional attributes

| | |
|---|---|
| **Metadata item type:** | Indicator |
| **Indicator type:** | Indicator |
| **Common name:** | Apgar score of less than 7 at 5 minutes for births at or after term |
| **Short name:** | PI 04–Apgar score of less than 7 at 5 minutes for births at or after term, 2019 |
| **METEOR identifier:** | 717534 |
| **Registration status:** | Health, Superseded 16/09/2020 |
| **Description:** | The proportion of live born babies at or after term (from 37 completed weeks gestational age) with an Apgar score of less than 7 at 5 minutes after birth. |
| **Rationale:** | This indicator of the condition of the baby after birth provides an outcome measure of intrapartum care and newborn resuscitation. |
| **Indicator set:** | National Core Maternity Indicators, 2019<br>Health, Superseded 16/09/2020 |

## Collection and usage attributes

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|---|---|
| **Computation description:** | The number of live born babies at or after term (from 37 completed weeks gestational age) with an Apgar score of less than 7 at 5 minutes, divided by the number of live born babies born at or after term (from 37 completed weeks gestational age), and multiplied by 100.<br><br>A birth is defined as an event in which a baby comes out of the uterus after a pregnancy of at least 20 weeks gestation or weighing 400 grams or more. If the baby is alive the birth is a live birth. If the baby is not alive the birth is a stillbirth.<br><br>Gestational age is a clinical measure of the duration of the pregnancy. For the National Perinatal Data Collection gestational age is reported as completed weeks. Term is defined as gestational age between 37 and 41 weeks.<br><br>Births included are live born babies born at or after term.<br><br>Births excluded are stillbirths and babies born before term (before 37 weeks). |
| **Computation:** | 100 × (Numerator ÷ Denominator) |
| **Numerator:** | The number of live born babies at or after term (from 37 completed weeks gestational age) with an Apgar score of less than 7 at 5 minutes. |

**Numerator data elements:**

┌─ **Data Element / Data Set** ─────────────────────────────────

[Birth—birth status, code N](#)

**Data Source**

[Perinatal National Minimum Data Set (NMDS)](#)

**NMDS / DSS**

[Perinatal NMDS 2014-18](#)

**Guide for use**

Data source type: Administrative by-product data

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┌─ **Data Element / Data Set** ─────────────────────────────────

[Birth—Apgar score (at 5 minutes), code NN](#)

**Data Source**

[Perinatal National Minimum Data Set (NMDS)](#)

**NMDS / DSS**

[Perinatal NMDS 2014-18](#)

**Guide for use**

Data source type: Administrative by-product data

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┌─ **Data Element / Data Set** ─────────────────────────────────

[Product of conception—gestational age, completed weeks N[N]](#)

**Data Source**

[Perinatal National Minimum Data Set (NMDS)](#)

**NMDS / DSS**

[Perinatal NMDS 2014-18](#)

**Guide for use**

Data source type: Administrative by-product data

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**Denominator:**    The number of live born babies born at or after term (from 37 completed weeks gestational age).

**Denominator data elements:**

**Data Element / Data Set**

[Birth—birth status, code N](#)

**Data Source**

[Perinatal National Minimum Data Set (NMDS)](#)

**NMDS / DSS**

[Perinatal NMDS 2014-18](#)

**Guide for use**

Data source type: Administrative by-product data

**Data Element / Data Set**

[Product of conception—gestational age, completed weeks N[N]](#)

**Data Source**

[Perinatal National Minimum Data Set (NMDS)](#)

**NMDS / DSS**

[Perinatal NMDS 2014-18](#)

**Guide for use**

Data source type: Administrative by-product data

**Disaggregation:**

- Year of birth
- State or territory of birth
- Mother's age at birth
- Hospital annual number of births
- Indigenous status of mother
- Labour/non-labour
- Hospital sector
- Primary Health Network (from mother's area of usual residence)
- Statistical local area 3 (from mother's area of usual residence)

**Disaggregation data elements:**

**Data Element / Data Set**

**Data Element**

Hospital annual number of births

**Data Source**

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

**Guide for use**

Data source type: Administrative by-product data

**Data Element / Data Set**

**Data Element**

Hospital sector

**Data Source**

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

**Guide for use**

Data source type: Administrative by-product data

**Data Element / Data Set**

[Birth event—state/territory of birth, code N](#)

**Data Source**

[Perinatal National Minimum Data Set (NMDS)](#)

**NMDS / DSS**

[Perinatal NMDS 2014-18](#)

**Guide for use**

Data source type: Administrative by-product data

**Data Element / Data Set**

[Person—date of birth, DDMMYYYY](#)

**Data Source**

[Perinatal National Minimum Data Set (NMDS)](#)

**NMDS / DSS**

[Perinatal NMDS 2014-18](#)

**Guide for use**

Data source type: Administrative by-product data

**Data Element / Data Set**

[Birth event—labour onset type, code N](#)

**Data Source**

[Perinatal National Minimum Data Set (NMDS)](#)

**NMDS / DSS**

[Perinatal NMDS 2014-18](#)

**Guide for use**

Data source type: Administrative by-product data

**Data Element / Data Set**

[Person—Indigenous status, code N](#)

**Data Source**

[Perinatal National Minimum Data Set (NMDS)](#)

**NMDS / DSS**

[Perinatal NMDS 2014-18](#)

**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**

[Perinatal National Minimum Data Set (NMDS)](#)

**NMDS / DSS**

[Perinatal NMDS 2014-18](#)

**Guide for use**

Data source type: Administrative by-product data

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|---|---|
| **Comments:** | Data elements are from the Perinatal National Minimum Data Set (NMDS) or have been provided as voluntary non-standardised items by the states and territories. Records with data that are missing, not stated or not interpretable have been excluded from the denominator. |

Data for parity, a criteria to selected females, were not available from Victoria in 2009.

The Apgar score is a system of assessing the baby's breathing, pulse, colour, movement and reflexes at 5 minutes after birth. It is a score out of 10, with higher scores indicating better condition of the baby. A score of less than 7 at 5 minutes after birth is considered to be an indicator of complications and of compromise for the baby.

Modified from Australian Council on Healthcare Standards (ACHS) Indicator 9.1: Low 5 minute score, full term babies. This ACHS indicator is based on the definition by the Women's Healthcare Australasia Core Maternity Indicators Project (WHA 2007).

## Representational attributes

| | |
|---|---|
| **Representation class:** | Percentage |
| **Data type:** | Real |
| **Unit of measure:** | Person |
| **Format:** | N[NN.N] |

## Data source attributes

**Data sources:**

┌─ **Data Source** ─────────────────────────────

[Perinatal National Minimum Data Set (NMDS)](#)

**Frequency**

Annual

**Data custodian**

Australian Institute of Health and Welfare

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┌─ **Data Source** ─────────────────────────────

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

**Frequency**

Calendar years ending 31 December each year

**Data custodian**

Australian Institute of Health and Welfare

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## Source and reference attributes

| | |
|---|---|
| **Submitting organisation:** | Australian Institute of Health and Welfare |

**Reference documents:**  ACHS (The Australian Council on Healthcare Standards, Health Services Research Group, University of Newcastle) 2014. The Australasian Clinical Indicator Report: 2006-2013. 15th edn. Sydney: ACHS. Viewed 9 April 2018, https://www.achs.org.au/media/88679/clinical_indicator_report_2006_2013.pdf.

WHA (Women's Healthcare Australasia) 2007. Supporting excellence in maternity care: the core maternity indicators project: findings from the core maternity indicators project. Canberra: WHA.

# Relational attributes

**Related metadata references:**   Supersedes National Core Maternity Indicators: PI 04–Apgar score of less than 7 at 5 minutes for births at or after term, 2018
Health, Superseded 19/06/2019

Has been superseded by National Core Maternity Indicators: PI 04–Apgar score of less than 7 at 5 minutes for births at or after term, 2020
Health, Superseded 17/12/2021