

National Core Maternity Indicators: PI 08— Instrumental vaginal birth for selected females giving birth for the first time, 2019

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National Core Maternity Indicators: PI 08—Instrumental vaginal birth for selected females giving birth for the first time, 2019

Identifying and definitional attributes

Metadata item type:	Indicator
Indicator type:	Indicator
Common name:	Instrumental vaginal birth for selected females giving birth for the first time
Short name:	PI 08—Instrumental vaginal birth for selected females giving birth for the first time, 2019
METEOR identifier:	717542
Registration status:	Health , Superseded 16/09/2020
Description:	The proportion of selected females giving birth for the first time who gave birth by instrumental vaginal birth.
Rationale:	This indicator is used to benchmark practice.
Indicator set:	National Core Maternity Indicators, 2019 Health , Superseded 16/09/2020

Collection and usage attributes

Population group age from:	20 years				
Population group age to:	34 years				
Computation description:	<p>The number of selected females giving birth for the first time who gave birth by instrumental vaginal birth, divided by all selected females, and multiplied by 100.</p> <p>Selected females criteria: Females included are those who gave birth for the first time and met all of the following criteria:</p> <ul style="list-style-type: none">• aged between 20 and 34• gestational age at birth between 37 and 41 completed weeks• pregnancy has one baby only (singleton)• the presentation of the baby is vertex (baby's head was at the cervix). <p>Excluded are those females who have given birth prior to the current birth or did not meet the selected females criteria.</p> <p>A birth is defined as the event in which a baby comes out of the uterus after a pregnancy of at least 20 weeks gestational age or weighing 400 grams or more.</p> <p>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.</p> <p>An instrumental birth is a procedure that uses instruments (forceps or vacuum extraction) to assist the baby to come out through the vagina.</p>				
Computation:	$100 \times (\text{Numerator} \div \text{Denominator})$				
Numerator:	The number of selected females giving birth for the first time who gave birth by instrumental vaginal birth.				
Numerator data elements:	<table><tr><th>Data Element / Data Set</th></tr><tr><td>Person—date of birth, DDMMYYYY</td></tr><tr><td>Data Source</td></tr><tr><td>Perinatal National Minimum Data Set (NMDS)</td></tr></table>	Data Element / Data Set	Person—date of birth, DDMMYYYY	Data Source	Perinatal National Minimum Data Set (NMDS)
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—birth method, 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

Data Element / Data Set

[Birth event—birth presentation, 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

[Birth event—birth plurality, 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

Denominator:
Denominator data elements:

Data Element / Data Set

[Female—parity, total pregnancies 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

All selected females.

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

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

Data Source

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

NMDS / DSS

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Data source type: Administrative by-product data

Data Element / Data Set

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

Data Source

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Data source type: Administrative by-product data

Data Element / Data Set

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

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Data source type: Administrative by-product data

Data Element / Data Set

[Female—parity, total pregnancies 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
- Hospital annual number of births
- Hospital sector
- Remoteness category (from mother's area of usual residence)
- Indigenous status of mother.
- 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

Patient election status

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 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

[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

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.

For Tasmania from 2005 to 2012, presentations via caesarean births were not reported by hospital still using paper-based form. Where a caesarean section occurred the presentation was recorded as 'Not stated'. Presentations via caesarean births was included in the paper-based form from 1 January 2013. As a result, Tasmania can only be reported 2013 onwards for selected females. The year 2004 was not included in this analysis as trend for after this year could not be undertaken due to the above issue.

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

Patient election status is available for all jurisdictions from 2006.

Source of definition: Australian Council on Healthcare Standards (ACHS) Indicator 1.3: Selected women giving birth for the first time who undergo an instrumental birth. The ACHS define an instrumental birth as the use of forceps or vacuum. This ACHS indicator is based on the definition by 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

Data Source

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

Frequency

Calendar years ending 31 December each year

Data custodian

Australian Institute of Health and Welfare

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 08—Instrumental vaginal birth for selected females giving birth for the first time, 2018](#)

[Health](#), Superseded 19/06/2019

Has been superseded by [National Core Maternity Indicators: PI 08—Instrumental vaginal birth for selected females giving birth for the first time, 2020](#)

[Health](#), Superseded 17/12/2021