National Core Maternity Indicators: PI 08– Instrumental vaginal birth for selected females giving birth for the first time, 2021

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National Core Maternity Indicators: PI 08–Instrumental vaginal birth for selected females giving birth for the first time, 2021

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, 2021
METEOR identifier:	747911
Registration status:	Health, Superseded 09/09/2022
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Indicator set:	National Core Maternity Indicators, 2021 Health, Superseded 09/09/2022

Collection and usage attributes

Population group age from:	20 years
Population group age to:	34 years
Computation description:	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. Selected females criteria: Females included are those who gave birth for the first time and met all of the following criteria: • 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). Excluded are those females who have given birth prior to the current birth or did not meet the selected females criteria. A birth is defined as the complete expulsion or extraction from a female, of a product of conception of 20 or more completed weeks of gestation or of 400 grams or more birthweight. 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. An instrumental birth is a procedure that uses instruments (forceps or vacuum extraction) to assist the baby to come out through the vagina.
Computation:	100 × (Numerator ÷ Denominator)
Numerator:	The number of selected females giving birth for the first time who gave birth by instrumental vaginal birth.
Numerator data elements:	**Data Element / Data Set** Person—date of birth, DDMMYYYY **Data Source**

Perinatal National Minimum Data Set (NMDS)

NMDS / DSS

Perinatal NMDS 2019–20

Guide for use

Data source type: Administrative by-product data

Data Element / Data Set

Pregnancy—birth plurality, code N

Data Source

Perinatal National Minimum Data Set (NMDS)

NMDS / DSS

Perinatal NMDS 2019–20

Guide for use

Data source type: Administrative by-product data

Data Element / Data Set

Product of conception—gestational age, total completed weeks N[N]

Data Source

Perinatal National Minimum Data Set (NMDS)

NMDS / DSS

Perinatal NMDS 2019–20

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 2019–20

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 2019–20

Guide for use

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 2019–20

Guide for use

Data source type: Administrative by-product data

Denominator: All selected females.

Denominator data elements:

Data Element / Data Set

Person—date of birth, DDMMYYYY

Data Source

Perinatal National Minimum Data Set (NMDS)

NMDS / DSS

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Guide for use

Data source type: Administrative by-product data

Data Element / Data Set

Pregnancy—birth plurality, code N

Data Source

Perinatal National Minimum Data Set (NMDS)

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Guide for use

Data source type: Administrative by-product data

Data Element / Data Set

Product of conception—gestational age, total completed weeks N[N]

Data Source

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Guide for use

Data source type: Administrative by-product data

Data Element / Data Set

Birth event—birth presentation, code N

Data Source

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Guide for use

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 2019–20

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
- Disadvantage quintile (from mother's area of usual residence)
- 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

Person—date of birth, DDMMYYYY

Data Source

Perinatal National Minimum Data Set (NMDS)

NMDS / DSS

Perinatal NMDS 2019–20

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 2019–20

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 2019–20

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 2019–20

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 a permissible value have been included in the denominator.

For Tasmania from 2004 to 2012, presentations via caesarean births were not reported by hospitals still using paper-based forms. 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.

Data for parity were not available from Victoria in 2009. As a result 2009 data for selected females cannot be reported for Victoria.

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

Accountability attributes

Reporting requirements: N/A

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

Accountability: 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) 2020. The Australasian Clinical Indicator Report: 2012-2019. 21st edn. Sydney: ACHS. Viewed 11 November 2021, https://www.achs.org.au/our-services/pos/previous-acir-publications.

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, 2020
Health, Superseded 17/12/2021

Has been superseded by National Core Maternity Indicators: PI 08–Instrumental vaginal birth for selected females giving birth for the first time, 2022
Health, Superseded 14/07/2023