Obstetric Trauma (With Instrument)

Description

This indicator measures the rate of obstetric trauma (lacerations that are third degree or greater in severity) for instrument-assisted vaginal deliveries.

For further details, please see the General Methodology Notes.

Calculation: Description

Risk-adjusted rate = Observed cases ÷ Expected cases × Canadian average

Unit of Analysis: Single admission

Place of service

Rate - per 100

The following covariates are used in risk adjustment:

For a detailed list of covariates used in the model, please refer to the Model Specification document.

Description:

Vaginal delivery discharges with instrument-assisted delivery

Inclusions:

1. Admission to an acute care institution (Facility Type Code = 1)

2. Delivery code (ICD-10-CA: O10–O16, O21–O26, O28–O37, O40–O46, O48, O60–O75, O85–O92, O95 or O98–O99 with a sixth digit of 1 or 2 OR Z37 coded in any position)


Exclusions:

1. Newborn, stillbirth or cadaveric donor records (Admission Category = N, R or S)

2. Records with invalid discharge date

3. Records with invalid age

4. Records with unknown or invalid (>45 completed weeks) gestational age

5. Caesarean sections (CCI code: 5.MD.60.^^)

6. Delivery in which an abortive procedure was recorded (code may be recorded in any position; procedures not coded as "abandoned after onset" [Intervention Status Attribute = A]):


OR

ICD-10-CA: O04

7. 2018–2019 data onward: Medical assistance in dying (MAID) (Discharge Disposition Code = 73)
Description:
Cases within the denominator with obstetric trauma

Inclusions:
Cases within the denominator with at least one obstetric trauma (any of the following conditions or interventions):

1. Third-degree perineal laceration during delivery, delivered, with or without mention of antepartum condition (ICD-10-CA: O70.201, O70.211, O70.221, O70.231, O70.281, O70.291)
2. Fourth-degree perineal laceration during delivery, delivered, with or without mention of antepartum condition (ICD-10-CA: O70.301)
3. Obstetric laceration of cervix, delivered, with or without mention of antepartum condition (ICD-10-CA: O71.301)
4. Obstetric high vaginal laceration alone, delivered, with or without mention of antepartum condition (ICD-10-CA: O71.401)
5. Other obstetric injury to pelvic organs, delivered, with or without mention of antepartum condition (ICD-10-CA: O71.501)
6. Other rupture of uterus during labour, delivered, with or without mention of antepartum condition (ICD-10-CA: O71.181)
7. Obstetric damage to pelvic joints and ligaments, delivered, with or without mention of antepartum condition (ICD-10-CA: O71.601)
8. Surgical repair, postpartum, of obstetric laceration:
   a. Of corpus uteri (CCI code: 5.PC.80.JH)
   b. Of current obstetric laceration of cervix occurring at vaginal delivery (CCI code: 5.PC.80.JI)
   c. Of current obstetric laceration of bladder and urethra (CCI code: 5.PC.80.JR)
   d. Of current obstetric laceration of rectum and sphincter ani (CCI code: 5.PC.80.JQ)
   e. Of current obstetric high vaginal laceration (CCI code: 5.PC.80.JU)
   f. Of current obstetric laceration of broad ligament(s) of uterus (CCI code: 5.PC.80.JL)

Background, Interpretation and Benchmarks

Obstetric trauma is among the most common adverse events in Canada. Obstetric trauma, including lacerations that are third degree and greater in severity, may result in longer lengths of stay for mothers, as well as chronic complications such as fecal incontinence, dyspareunia, perineal pain and other pelvic floor disorders.

Risk factors for obstetric trauma include prolonged pregnancy, long labour, malposition and maternal age. One of the most significant and potentially modifiable risk factors for obstetric trauma is the use of instruments during vaginal delivery. By ensuring appropriate training and adherence with best practice guidelines during instrument-assisted deliveries, hospitals can potentially reduce the risk of obstetric trauma.

The obstetric trauma indicators are intended to be used as flags to identify areas for improvement and to help identify processes of care that require hospital-level evaluation.

Interpretation:
A lower rate is more desirable.

HSP Framework:
Health System Outputs: Safe

Areas of Need:
Getting Better

Targets/Benchmarks:
Not applicable

References:


Availability of Data Sources and Results

Data Sources:
DAD, HMDB

Type of Year:
Fiscal

First Available Year:
2014

Last Available Year:
2018

Geographic Coverage:
All provinces/territories

Reporting Level/Disaggregation:
National, Province/Territory, Region, Facility
Result Updates
Update Frequency: Every year

Web Tool:
Your Health System: In Depth

Indicator Results URL:
Accessing Indicator Results on Your Health System: In Depth

Updates: Not applicable

Quality Statement: Caveats and Limitations: Not applicable

Trending Issues: Not applicable
Indicator results are also available in

Comments:
- Your Health System: Insight, updated monthly starting from 2014–2015