# OB Trauma: Instrument

## OECD: Obstetric Trauma, Vaginal Delivery With Instrument

Rate of instrument-assisted vaginal deliveries with third- or fourth-degree obstetric trauma, per 100 vaginal deliveries with instrument

### Method of Calculation

\[
\text{Rate} = \frac{\text{Number of instrument-assisted vaginal deliveries with third- or fourth-degree obstetric trauma}}{\text{Number of instrument-assisted vaginal deliveries}} \times 100
\]

### Numerator

<table>
<thead>
<tr>
<th>Criteria</th>
<th>ICD-10-CA v. 2009/CCI Codes</th>
</tr>
</thead>
</table>
| Inclusions | • Discharges with third- or fourth-degree obstetric trauma in any diagnosis field  
• Obstetric trauma identified in procedure codes for which the procedure was not abandoned or performed out of hospital | • Obstetric trauma: O70.2, O70.3  
• CCI procedure codes for obstetric trauma: 5PC80JQ, 5PC80JR |
| Exclusions | • None | 

### Denominator

<table>
<thead>
<tr>
<th>Criteria</th>
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</tr>
</thead>
</table>
| Inclusions | • Admissions to an acute care facility  
• Age at admission 15+  
• Female gender  
• Admissions with outcome of delivery coded on the mother's record  
**AND**  
• Records with instrument-assisted delivery coded in any field that was not also listed as out of hospital | • Outcome of delivery diagnosis code: Z37^  
**AND**  
• CCI instrument-assisted delivery procedure codes: 5MD53^^, 5MD56NN, 5MD56PC, 5MD56NR, 5MD56PF, 5MD56NW, 5MD56PJ, 5MD54^^, 5MD55^^ |

(cont’d on next page)
OECD: Obstetric Trauma, Vaginal Delivery With Instrument (cont’d)

Denominator

Exclusions
- Deliveries (that are not abandoned or cancelled) where an abortive procedure is coded in any field
- Deliveries (that are not abandoned or cancelled) where Caesarean section is coded in any field
- CCI procedure codes: 5.CA.88, 5.CA.89, 5.CA.90, 5.CA.93
- CCI C-section code: 5.MD.60

Provincial Considerations
Records are chosen based on the patient’s place of treatment.

Data Source

Notes
None

Interpretation
A low rate for this indicator can be interpreted as a positive result.

Indicator Rationale
( OECD, 2011, p. 112)
“Obstetric trauma indicators are intended to flag cases of potentially preventable third- and fourth-degree perineal tears during vaginal delivery. Such tears extending to the perineal muscles, anal sphincter and bowel wall require surgical treatment after birth . . . These types of tears are not possible to prevent, but can be reduced by employing appropriate labour management and care standards . . . The proportion of deliveries involving higher degree lacerations is a useful indicator of the quality of obstetrical care and can assist in reducing these adverse events.”

Glossary of Terms

ICD-10-CA is the International Statistical Classification of Diseases and Related Health Problems, Tenth Revision, Canada.

CCI is the Canadian Classification of Health Interventions, the national standard for classifying health care procedures.
References

