## Caesarean Section Rate

<table>
<thead>
<tr>
<th>Name</th>
<th>Caesarean Section Rate</th>
</tr>
</thead>
<tbody>
<tr>
<td>Short/Other Names</td>
<td>C-Section Rate</td>
</tr>
</tbody>
</table>

### Description
This indicator measures the crude rate of all Caesarean sections (C-sections) per 100 deliveries.

For further details, please see the General Methodology Notes.

### Interpretation
Lower rates are desirable.

### HSP Framework Dimension
Health System Outputs: Appropriate and effective

### Areas of Need
Getting Better

### Geographic Coverage
All provinces/territories

### Reporting Level/Disaggregation
National, Province/Territory, Region

### Indicator Results
[Link](http://yourhealthsystem.cihi.ca/epub/?language=en)

### Indicator Description and Calculation

#### Description:
The indicator measures the crude rate of all Caesarean sections (C-sections) per 100 deliveries.

For further details, please see the General Methodology Notes.

#### Calculation:
\[
\text{Rate (per 100)} = \frac{\text{Number of C-sections} \times 100}{\text{Number of deliveries}}
\]

Unit of analysis: Single admission

#### Geographic Assignment
Place of residence

#### Calculation: Type of Measurement
Rate - per 100

#### Calculation: Adjustment Applied
None

#### Calculation: Method of Adjustment
Not applicable

### Denominator

#### Description:
Hospitalizations where a delivery was recorded

#### Inclusions:
1. Admission to an acute care institution (Facility Type Code = 1)
2. Sex recorded as female
3. Delivery coded in any diagnosis field:
   - ICD-10-CA:
     - O10–O16, O21–O29, O30–O37, O40–O46, O48, O60–O69, O70–O75, O85–O89, O90–O92, O95, O98, O99 with a sixth digit of 1 or 2; or Z37

#### Exclusions:
1. Newborn, stillbirth or cadaveric donor records (Admission Category = N, R or S)
2. Delivery in which an abortive procedure was recorded (code may be recorded in any position; procedures coded as out of hospital or abandoned after onset [OOH Indicator Flag = Y or Intervention Status Attribute = A] are excluded):
   - CCI:

#### OR

#### ICD-10-CA:
- O04

#### Description:
Cases within the denominator where a C-section delivery was recorded

#### Inclusions:
The numerator is a subset of the denominator. C-section is identified as any of the following procedure codes (code may be recorded in any position; procedures coded as out of hospital and abandoned after onset are excluded):
- CCI:
  - 5.MD.60^^

### Background, Interpretation and Benchmarks
C-section rates provide information on the frequency of surgical birth delivery relative to all modes of birth delivery. Since C-section delivery increases maternal morbidity/mortality and is associated with higher costs, C-section rates are often used to monitor clinical practices, with an implicit assumption that lower rates indicate more appropriate, as well as more efficient, care.

Interpretation
Lower rates are desirable.

HSP Framework
Health System Outputs: Appropriate and effective

Dimension
Getting Better

Targets / Benchmarks
Not applicable


Availability of Data Sources and Results

Data Sources
DAD, HMDB

Type of Year:
Fiscal

First Available Year:
1997

Last Available Year:
2016

Geographic Coverage
All provinces/territories

Reporting Level/Disaggregation
National, Province/Territory, Region

Result Updates
Update Frequency
Every year

Web Tool:
Health Indicators E-publication
URL: http://yourhealthsystem.cihi.ca/epub/?language=en

Updates
Not applicable

Quality Statement
Not applicable

Caveats and Limitations
Not applicable

Trending Issues

Caesarean Section Rate is also known as Total C-Section Rate in CIHI's Quick Stats product, under DAD/HMDB Childbirth Indicators by Place of Residence (2013–2014 results released March 2015).

This Quick Stats product provides 14 childbirth indicators reported at the national, provincial/territorial and regional levels.

Comments
Indicator results and full methodological notes can be found here:

http://apps.cihi.ca/mstrapp/asp/Main.aspx?
Server=apmstrtextpr &project=Quick+Stats&uid=pce_pub_en&pwd=&evt=2048001&visualizationMode=0&documentID=029DB170438205AEBCC75B8673CCE822