# Cardiac Revascularization Rate

<table>
<thead>
<tr>
<th>Name</th>
<th>Cardiac Revascularization Rate</th>
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<tr>
<td>Short/Other Names</td>
<td>Not applicable</td>
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**Description**

This indicator measures the age-standardized rate of coronary artery bypass graft (CABG) surgery performed on inpatients in acute care hospitals or percutaneous coronary interventions (PCIs) performed on patients in acute care hospitals, same-day surgery facilities or catheterization laboratories, per 100,000 population age 18 and older.

For further details, please see the General Methodology Notes.

**Interpretation**

Does not apply to this measure (i.e., there is no predefined preference for the measure score)

**HSP Framework Dimension**

Health System Inputs and Characteristics: Health system resources

**Areas of Need**

Not applicable

**Geographic Coverage**

All provinces/territories except Quebec

**Reporting Level/Disaggregation**

National, Province/Territory, Region

**Indicator Results**

http://www.cihi.ca/hirpt/?language=en

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**Indicator Description and Calculation**

This indicator measures the age-standardized rate of coronary artery bypass graft (CABG) surgery performed on inpatients in acute care hospitals or percutaneous coronary interventions (PCIs) performed on patients in acute care hospitals, same-day surgery facilities or catheterization laboratories, per 100,000 population age 18 and older.

For further details, please see the General Methodology Notes.

**Calculation:**

(Total number of discharges for CABG or PCI for patients age 18 and older ÷ total mid-year population age 18 and older) × 100,000 (age adjusted)

**Unit of Analysis:** Single admission

**Geographic Assignment:** Place of residence

**Type of Measurement:** Rate - Per 100,000

**Adjustment Applied:** Age-adjusted

**Method of Adjustment:**

Standard Population:
Canada 2011

**Denominator Description:**

Total mid-year population age 18 and older
**Description:**
Total number of discharges for CABG or PCI for patients age 18 and older

**Inclusions:**
1. Cardiac revascularization is identified as the following procedure code recorded in any position of the procedure code fields:
   - CCP: 48.1^, 48.02 or 48.03
   - CCI: IJ.76^, 1.IJ.50^ or 1.IJ.57.GQ^ or 1.IJ.54.GQ-AZ (this code is used for 2006-2007 to 2008-2009 only)
2. Age at admission 18 years and older
3. Sex recorded as male or female
4. Admission to an acute care institution or same-day surgery facility (Facility Type Code = 1 or A)

**Exclusions:**
1. Newborn, stillbirth or cadaveric donor records (Admission Category = N, R or S)
2. PCI/CABG can be performed in designated cardiac centres only; therefore, procedures reported by facilities without on-site PCI/CABG services were excluded from the indicator calculation.
3. Procedures coded as out of hospital and abandoned after onset (Intervention Status Attribute = A or OOH Indicator Flag = Y)

**Background, Interpretation and Benchmarks**

**Rationale**
The choice of revascularization mode (PCI or CABG) depends on numerous factors, including physician preferences, availability of services and referral patterns, as well as differences in population health and socio-economic status. The combined cardiac revascularization rate represents total cardiac revascularization activity in a jurisdiction.

**Interpretation**
Does not apply to this measure (i.e., there is no predefined preference for the measure score)

**HSP Framework**
**Dimension**
Health System Inputs and Characteristics: Health system resources

**Areas of Need**
Not applicable

**Targets/Benchmarks**
Benchmarks have not been identified for this indicator.

**References**

**Availability of Data Sources and Results**

**Data Sources**
DAD, NACRS

**Type of Year:**
Fiscal

**Available Data Years**
First Available Year: 2010
Last Available Year: 2017

**Geographic Coverage**
All provinces/territories except Quebec

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

**Result Updates**
Update Frequency Every year

**Web Tool:**
Health Indicators e-Publication
URL: http://www.cihi.ca/hirpt/?language=en

**Quality Statement**
Rates for Quebec are not available due to differences in data collection.

**Caveats and Limitations**
Some residents in New Brunswick's Zone 4 and Zone 5 receive cardiac procedures in Quebec under a referral agreement between the 2 provinces. Due to differences in data collection in Quebec, data for New Brunswick residents undergoing PCI in Quebec is not available; thus the rates for these 2 regions are suppressed.

**Trending Issues**
Not applicable

**Comments**
Cardiac revascularization procedures can be performed in designated cardiac centres only; therefore, procedures reported by facilities without on-site cardiac services were excluded from the indicator calculation.