

# Cardiac Revascularization Rate

Name	Cardiac Revascularization Rate
Short/Other Names	Not applicable
Description	<p>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.</p> <p>For further details, please see the <a href="#">General Methodology Notes</a>.</p>
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	<a href="http://www.cihi.ca/hirpt/?language=en">http://www.cihi.ca/hirpt/?language=en</a>

## Identifying Information

Name Cardiac Revascularization Rate  
Short/Other Names Not applicable

### Indicator Description and Calculation

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](#).

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)

### Calculation: Description

Unit of Analysis: Single admission

### Calculation: Geographic Assignment

Place of residence

### Calculation: Type of Measurement

Rate - Per 100,000

### Calculation: Adjustment Applied

Age-adjusted

### Calculation: Method of Adjustment

Direct Standardization

**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^^. 1.IJ.54.GQ-AZ (this code is used for 2006–2007 to 2008–2009 only)

### Numerator

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. Cardiac Care Network of Ontario Consensus Panel on Target Setting. <i>Final Report and Recommendations</i> . 2004.
References	Faris, P. D. et al. "Diagnostic Cardiac Catheterization and Revascularization Rates for Coronary Heart Disease." <i>Canadian Journal of Cardiology</i> 20 (2004): pp. 391-397.

Institute for Clinical Evaluative Sciences. Cardiovascular Health and Services in Ontario. Toronto, Ont.: ICES, 1999.

#### Availability of Data Sources and Results

Data Sources	DAD, NACRS <b>Type of Year:</b> Fiscal
Available Data Years	<b>First Available Year:</b> 2010 <b>Last Available Year:</b> 2016
Geographic Coverage	All provinces/territories except Quebec
Reporting Level/Disaggregation	National, Province/Territory, Region
Result Updates	
Update Frequency	Every year
Indicator Results	<b>Web Tool:</b> Health Indicators E-Publication <b>URL:</b> <a href="http://www.cihi.ca/hirpt/?language=en">http://www.cihi.ca/hirpt/?language=en</a>
Updates	Not applicable
Quality Statement	
Caveats and Limitations	Rates for Quebec are not available due to differences in data collection. 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.