

# Cardiac Revascularization Rate

Name	Cardiac Revascularization Rate
Short/Other Names	Not applicable
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 <a href="#">General Methodology Notes</a> .
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 <a href="#">General Methodology Notes</a> .  (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 <b>Standard Population:</b> Canada 2011
Denominator	<b>Description:</b> 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)

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** Health System Inputs and Characteristics: Health system resources

**Dimension**

**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. *Final Report and Recommendations*. 2004.

**References** Faris, P. D. et al. "Diagnostic Cardiac Catheterization and Revascularization Rates for Coronary Heart Disease." *Canadian Journal of Cardiology* 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

**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:**

**Indicator Results** Health Indicators e-Publication

**URL:** <http://www.cihi.ca/hirpt/?language=en>

**Updates** Not applicable

**Quality Statement**

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

**Caveats**

and 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.