

Percutaneous Coronary Intervention (PCI) Volume by Province and Centre

Name	Percutaneous Coronary Intervention (PCI) Volume by Province and Centre
Short/Other Names	PCI Volume by Province and Centre
Description	Total number of percutaneous coronary intervention (PCI) procedures performed in a fiscal year. For further details, please see the Cardiac Care Quality Indicators (CCQI) General Methodology Notes .
Interpretation	Volumes above 400 are desirable.
HSP Framework Dimension	Health System Outputs: Appropriate and effective
Areas of Need	Getting Better
Geographic Coverage	All provinces/territories except Quebec
Reporting Level /Disaggregation	National, Province/Territory, Facility
Indicator Results	https://www.cihi.ca/en/cardiac-care

Identifying Information

Name	Percutaneous Coronary Intervention (PCI) Volume by Province and Centre
Short/Other Names	PCI Volume by Province and Centre
Indicator Description and Calculation	
Description	Total number of percutaneous coronary intervention (PCI) procedures performed in a fiscal year. For further details, please see the Cardiac Care Quality Indicators (CCQI) General Methodology Notes .
Calculation: Description	The total number is calculated by adding the total number of intervention codes for the province or facility in a fiscal year.
Calculation: Description	Unit of analysis: Intervention code
Calculation: Geographic Assignment	Place of service
Calculation: Type of Measurement	Number - Total number
Calculation: Adjustment Applied	None
Calculation: Method of Adjustment	Not applicable

	Description: Total number of PCI procedures performed in a fiscal year
	Inclusions:
Denominator	1. PCI intervention codes (CCI code: 1.IJ.50.^, 1.IJ.57.GT, or 1.IJ.57.GU), where the intervention was not coded as out of hospital or abandoned (Out-of-Hospital Indicator not equal to Y and Intervention Status Attribute not equal to A)
	Exclusions: None
Numerator	Description: Not applicable

Background, Interpretation and Benchmarks

Considering that about 2.4 million Canadians are living with heart disease and that Canada's population is increasingly at risk,¹ it's important to examine the quality of cardiac care in order to support improvements in care and ultimately in the health of Canadians.

Rationale PCI is a well-established procedure to treat coronary artery stenosis. Current evidence suggests that centres that perform fewer than 400 PCIs per year have a larger incidence of adverse events.² Based on this evidence, annual PCI volume has been identified as a key quality indicator for PCI care by the Canadian Cardiovascular Society.³

National measurement of and reporting on this indicator is important due to the continued establishment of new PCI centres.⁴

Interpretation	Volumes above 400 are desirable.
HSP Framework Dimension	Health System Outputs: Appropriate and effective
Areas of Need	Getting Better
Targets /Benchmarks	Not applicable

1. Government of Canada. [Heart Disease in Canada](#). Accessed February 22, 2019.

2. Harold JG, et al. ACCF/AHA/SCAI 2013 update of the Clinical Competence Statement on Coronary Artery Interventional Procedures: A report of the American College of Cardiology Foundation/American Heart Association/American College of Physicians Task Force on Clinical Competence and Training (Writing Committee to Revise the 2007 Clinical Competence Statement on Cardiac Interventional Procedures). *Circulation*. July 2013.

3. Canadian Cardiovascular Society. *Quality Indicators for Percutaneous Coronary Intervention*. 2015.

4. Quraishi A, et al. *Quality of care for percutaneous coronary intervention: Development of Canadian Cardiovascular Society quality indicators*. *Canadian Journal of Cardiology*. December 2016.

Availability of Data Sources and Results

Data Sources DAD, NACRS

Type of Year:
Fiscal

Available Data Years **First Available Year:**
2013
Last Available Year:
2018

Geographic Coverage All provinces/territories except Quebec

Reporting Level/Disaggregation National, Province/Territory, Facility

Result Updates

Update Frequency Every year

Web Tool:

Indicator Results *Cardiac Care Quality Indicators Report*
URL: <https://www.cihi.ca/en/cardiac-care>

Updates Please refer to the [CCQI General Methodology Notes](#).

Quality Statement

Caveats and Limitations There is no comprehensive capture of PCI data in Quebec, so Quebec cannot be included in analyses.

Trending Issues Not applicable

Comments This indicator belongs to a suite of Cardiac Care quality indicators (CCQI) that provide pan-Canadian comparable information on outcomes related to selected cardiac interventions. The goal is to support monitoring and quality improvement in cardiac care.

More information on the CCQI Report is available on our [Cardiac Care web page](#).