



CIHI–CCN Cardiac Care Quality Indicators Pilot Project

About the Project

Working together, the Canadian Institute for Health Information (CIHI) and the Cardiac Care Network of Ontario (CCN) have developed a set of cardiac care quality indicators. These comparative performance indicators support cardiac care centres through routine monitoring of their quality of care and fostering an environment of quality improvement.

The goals of this collaborative project are to provide hospitals with

- Cardiac care quality indicators that cannot be calculated from facility data alone;
- Comparable national indicators, based on the same data standards and methodology; and
- Well-defined, relevant and useful indicators to support routine monitoring and quality improvement.

Both Ontario and British Columbia participated in this pilot project.

Indicator Development

A national expert panel, composed of representatives from cardiology, interventional cardiology, cardiac surgery, hospital administration and the Canadian Cardiovascular Society, provided input and expertise to develop an initial set of pilot cardiac care quality indicators. The resulting 14 indicators provide new information to hospitals on outcomes related to select cardiac interventions. Additionally, the indicators provide hospitals with information regarding outcomes occurring outside of their facility—such as transfers or readmissions to another facility—for a more complete picture of patient care.

Indicators

The indicators examine quality outcomes—such as acute renal failure, stroke and mortality—for patient groups that had undergone the following cardiac interventions:

- Diagnostic cardiac catheterization;
- Percutaneous coronary intervention;
- Isolated coronary artery bypass graft surgery;
- Isolated valve surgery; and
- Combined CABG and valve surgery.

Information Sheet

About CIHI

Who We Are

Established in 1994, CIHI is an independent, not-for-profit corporation that provides essential information on Canada's health system and the health of Canadians. Funded by federal, provincial and territorial governments, we are guided by a Board of Directors made up of health leaders across the country.

Our Vision

To help improve Canada's health system and the well-being of Canadians by being a leading source of unbiased, credible and comparable information that will enable health leaders to make better-informed decisions.

About the CCN

The Cardiac Care Network (CCN) serves as an advisor on adult cardiovascular care in Ontario. In addition to helping to plan, coordinate, implement and evaluate cardiovascular care in Ontario, CCN is responsible for the provincial cardiac registry. CCN works in collaboration with key stakeholders, including the Ministry of Health and Long-Term Care, Local Health Integration Networks, hospitals, health service planners and researchers, and clinical leaders. Through scientific evidence, expert panels and working groups, CCN uses consensus-driven methods to identify and implement best practices and strategies to effectively deliver cardiovascular services, across the continuum of care.

CARDIAC CARE NETWORK



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The 14 indicators are as follows:

Renal failure

- PCI cases with acute renal failure within 14 days
- CABG (isolated) cases with acute renal failure within 14 days
- CABG + Valve surgery cases with acute renal failure within 14 days
- Valve surgery cases with acute renal failure within 14 days

Stroke

- CC cases with stroke within same episode of care
- PCI cases with stroke within 14 days
- CABG (isolated) cases with stroke within 14 days
- CABG + Valve surgery cases with stroke within 14 days
- Valve surgery cases with stroke within 14 days

Mortality

- 30-day in-hospital mortality for PCI cases
- 30-day in-hospital mortality for CABG cases
- 30-day in-hospital mortality for CABG + Valve surgery cases
- 30-day in-hospital mortality for valve surgery cases

CABG and PCI

- PCI cases with CABG within 2 days

Reports

Participating hospitals receive two reports:

- The Hospital-Specific Report shows detailed crude and risk-adjusted reports for the hospital.
- The Comparative Report shows risk-adjusted results from all participating cardiac centres.

Using the Comparative Report, participating facilities can compare their results with those of other cardiac centres.

Data Sources

The data sources for the indicators are the Discharge Abstract Database (DAD) and the National Ambulatory Care Reporting System (NACRS).

Because this project uses existing CIHI data collection systems, it does not require additional hospital resources.