Coronary Artery Bypass Graft (CABG) Rate

Coronary Artery Bypass Graft (CABG) Rate

Name Short/Other Names Description Interpretation **HSP Framework Dimension** Areas of Need Geographic Coverage Reporting Level/Disaggregation Indicator Results Identifying Information Name Short/Other Names CABG Indicator Description and Calculation Description Calculation: Description Calculation: Geographic Assignment Calculation: Type of Measurement Calculation: Adjustment Applied Calculation: Method of Adjustment Denominator

Numerator

Coronary Artery Bypass Graft (CABG) Rate

CABG

This indicator measures the age-standardized rate of coronary artery bypass graft (CABG) surgery performed on inpatients in acute care hospitals, per 100,000 population age 18 and older.

For further details, please see the General Methodology Notes.

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

Health System Inputs and Characteristics: Health system resources

Not applicable

All provinces/territories

National, Province/Territory, Region http://www.cihi.ca/hirpt/?language=en

This indicator measures the age-standardized rate of coronary artery bypass graft (CABG) surgery performed on inpatients in acute care hospitals, per 100,000 population age 18 and older.

For further details, please see the General Methodology Notes. (Total number of discharges for CABG for inpatients age 18 and older ÷ total mid-year population age 18 and older) × 100,000 (age adjusted)

Unit of Analysis: Single admission

Place of residence Rate - Per 100,000 Age-adjusted **Direct Standardization** Standard Population:

Canada 2011

Description:

Total mid-year population age 18 and older

Description:

Total number of discharges for CABG for inpatients age 18 and older

Inclusions:

1. CABG is identified as the following procedure code recorded in any position of the procedure code fields:

CCP: 48.1[^]

ICD-9-CM: 36.1

CCI: 1.IJ.76^^

- 2. Age at admission 18 years and older
- 3. Sex recorded as male or female
- 4. Admission to an acute care institution (Facility Type Code = 1)

Exclusions:

- 1. Newborn, stillbirth or cadaveric donor records (Admission Category = N, R or S)
- 2. CABG can be performed in designated cardiac centres only; therefore, procedures reported by facilities without on-site 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)

realionale
Interpretation HSP Framework Dimension Areas of Need Targets/Benchmarks
References
Availability of Data Sources and Results Data Sources
Available Data Years
Geographic Coverage Reporting Level/Disaggregation Result Updates Update Frequency
Indicator Results
Updates Quality Statement
Caveats and Limitations
Trending Issues
Comments

Background, Interpretation and Benchmarks

Dationalo

As with other types of surgical procedures, variation in CABG surgery rates can be attributed to numerous factors, including differences in population demographics, physician practice patterns and availability of services. In cases amenable to treatment with less-invasive procedures, percutaneous coronary intervention (PCI), an alternative intervention to improve blood flow to the heart muscle, may be used. Variations in the extent to which PCI is utilized may result in variations in the rate of bypass surgery.

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

Health System Inputs and Characteristics: Health system resources Not applicable

Benchmarks have not been identified for this indicator.

Cardiac Care Network of Ontario Consensus Panel on Target Setting. Final Report and Recommendations. 2004.

Conigliaro, J. et al. "Understanding Racial Variation in the Use of Coronary Revascularization Procedures: The Role of Clinical Factors." Archives of Internal Medicine 160 (2000): pp. 1329-1335.

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.

Yap, A. G. et al. "Coronary Artery Bypass Surgery on Small Patients." Journal of Invasive Cardiology 12 (2000): pp. 242-246.

DAD, HMDB

Type of Year:

Fiscal.

First Available Year:

2010

Last Available Year:

2017

All provinces/territories

National, Province/Territory, Region

Every year

Web Tool:

Health Indicators e-Publication

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

Not applicable

Some residents in New Brunswick's Zone 4 and Zone 5 receive CABG in Quebec under a referral agreement between the 2 provinces. Due to differences in data collection, New Brunswick residents receiving care in Quebec cannot be assigned to their region of residence; thus the rates for these 2 regions are suppressed.

Not applicable

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