Canadian Institute for Health Information

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About CIHI

The Canadian Institute for Health Information (CIHI) is an independent, not-for-profit organization that provides essential information on Canada’s health systems and the health of Canadians.
About CIHI: Comparable and actionable data

We provide comparable and actionable data and information that are used to accelerate improvements in health care, health system performance and population health across Canada.
Our stakeholders use our broad range of health system databases, measurements and standards, together with our evidence-based reports and analyses, in their decision-making processes.
About CIHI: Privacy and confidentiality

We protect the privacy of Canadians by ensuring the confidentiality and integrity of the health care information we provide.
Governance

CIHI is governed by a 16-member Board of Directors

- Proportional representation to create a balance among health sectors and regions of Canada
- Links federal, provincial and territorial governments with non-government health-related groups
- Provides the strategic leadership necessary to establish and review CIHI’s mission, vision, mandate and corporate goals and objectives
In 2016-17, CIHI had a total budget of $104.3 million

- CIHI is funded through Health Canada and provincial/territorial contributions
- The recent federal budget committed an additional $53 million over the next 5 years, with $15 million per year ongoing to support CIHI’s mandate
Key Priorities
CIHI’s Strategic Plan 2016 to 2021

Vision

Mandate
Deliver comparable and actionable information to accelerate improvements in health care, health system performance and population health across the continuum of care

Strategic goals
- Be a trusted source of standards and quality data
- Expand analytical tools to support measurement of health systems
- Produce actionable analysis and accelerate its adoption

Priority themes and populations
Themes
- Patient experience
- Quality and safety
- Outcomes
- Value for money
- Health system performance

Populations
- Seniors and aging
- Mental health and addictions
- First Nations, Inuit and Métis
- Children and youth

Foundation
- Our people
- Stakeholder engagement and partnerships
- Privacy and security
- Information technology

Values
Respect • Integrity • Collaboration • Excellence • Innovation
Our vision, mandate and values

**Vision**
Better data.  
Better decisions.  
Healthier Canadians.

**Mandate**
Deliver comparable and actionable information to accelerate improvements in health care, health system performance and population health across the continuum of care.

**Values**
Respect • Integrity • Collaboration • Excellence • Innovation
Priority themes and populations

Themes
- Patient experience
- Quality and safety
- Outcomes
- Value for money

Populations
- Seniors and aging
- Mental health and addictions
- First Nations, Inuit and Métis
- Children and youth
Strategic goals and priorities

1. Be a trusted source of standards and quality data

2. Expand analytical tools to support measurement of health systems

3. Produce actionable analysis and accelerate its adoption
Our core strengths include

- Identifying health information needs and priorities
- Coordinating and promoting standards and data quality
- Developing and managing health system databases and registries
- Developing comparable measures of health system performance
- Conducting analyses in the areas of population health and health services
- Building capacity and conducting education sessions
Key Deliverables
Health Standards and Data
Standards are the cornerstone of meaningful health information
Data Standards at CIHI

- **Clinical Data Standards**
  - interRAI instruments for home and continuing care and mental health
  - Disease and intervention classifications ICD-10-CA and CCI

- **Information Standards**
  - Case Mix
  - Indicators

- **Financial Standards**
  - Management Information Standards (MIS) for collecting and reporting financial and statistical data on daily operations of health service organizations
Types of Data at CIHI

**Types of care**
- Acute and emergency
- Mental health
- Home care
- Long-term care
- Rehabilitation
- Pharmaceuticals
- More

**Health workforce**
- Physicians
- Regulated nurses
- Pharmacists
- Occupational therapists
- Physiotherapists
- More

**Health spending**
- Macro health expenditures
- Hospital and regional health authority financial accounts
- Patient costing
Sources of CIHI Data

- Hospitals
- Clinicians
- Regional health authorities
- Residential facilities
- Other organizations
- Regulatory authorities and professional associations
- Provinces and territories
CIHI Data Users

- Funders
- Health ministries
- Regional health authorities
- Hospital administrators
- Clinicians

- Researchers
- Journalists
- Students
- Public
Tools and Analyses
YourHealthSystem: In Brief, In Depth, Insight

How well is your health system actually working?

- Access: Can you get the health services you need when you need them?
- Quality of Care: How good is the care you are receiving, and is it safe?
- Spending: How much do the health services you use cost the system?
- Health Promotion and Disease Prevention: How well is the system working to help you stay healthy and avoid getting sick?
- Health Outcomes: Are Canadians actually getting healthier?

CIHI Data Analytic Tools

Wait Times Tool

British Columbia
- Hip Replacement: 61%
- Knee Replacement: 47%
- Hip Fracture Repair: 91%
- Cataract: 64%
- Bypass Surgery: No benchmark established
- Radiation Therapy: 63%
- CT Scan: No data available
- MRI Scan: No data available
- Cancer Surgery: No benchmark established

Alberta
- Hip Replacement: 63%
- Knee Replacement: 79%
- Hip Fracture Repair: 80%
- Cataract: 64%
- Bypass Surgery: No benchmark established
- Radiation Therapy: 96%
- CT Scan: No benchmark established
- MRI Scan: No benchmark established
- Cancer Surgery: No benchmark established

Patient Cost Estimator

OECD Interactive Tool
Monitoring Progress and Learning From Others

Top 10% Long-Term Care facilities with lowest fall rates 2012-13 to 2014-15 in the Province of Ontario

Trends in % of falls in last 30 days in long-term care facilities
### Tracking Key Measures of Interest – Wait Times

#### Benchmarks for treatment and wait time trending across Canada

#### British Columbia
- **Hip Replacement**: 61%
- **Knee Replacement**: 47%
- **Hip Fracture Repair**: 91%
- **Cataract**: 54%
- **Bypass Surgery**: No benchmark established
- **Radiation Therapy**: 93%
- **CT Scan**: No data available
- **MRI Scan**: No data available
- **Cancer Surgery**: No benchmark established

#### Alberta
- **Hip Replacement**: 83%
- **Knee Replacement**: 79%
- **Hip Fracture Repair**: 86%
- **Cataract**: 64%
- **Bypass Surgery**: No benchmark established
- **Radiation Therapy**: 99%
- **CT Scan**: No benchmark established
- **MRI Scan**: No benchmark established
- **Cancer Surgery**: No benchmark established

#### Saskatchewan
- **Hip Replacement**: 100%
- **Knee Replacement**: 99%
- **Hip Fracture Repair**: 80%
- **Cataract**: 96%
- **Bypass Surgery**: No benchmark established
- **Radiation Therapy**: 97%
- **CT Scan**: No data available
- **MRI Scan**: No data available
- **Cancer Surgery**: No benchmark established

#### Manitoba
- **Hip Replacement**: 69%
- **Knee Replacement**: 64%
- **Hip Fracture Repair**: 92%
- **Cataract**: 41%
- **Bypass Surgery**: No benchmark established
- **Radiation Therapy**: 100%
- **CT Scan**: No benchmark established
- **MRI Scan**: No benchmark established
- **Cancer Surgery**: No benchmark established

#### Ontario
- **Hip Replacement**: 87%
- **Knee Replacement**: 86%
- **Hip Fracture Repair**: 86%
- **Cataract**: 74%
- **Bypass Surgery**: No benchmark established
- **Radiation Therapy**: 99%
- **CT Scan**: No benchmark established
- **MRI Scan**: No benchmark established
- **Cancer Surgery**: No benchmark established

#### Quebec
- **Hip Replacement**: 85%
- **Knee Replacement**: 85%
- **Hip Fracture Repair**: 85%
- **Cataract**: 88%
- **Bypass Surgery**: No benchmark established
- **Radiation Therapy**: 96%
- **CT Scan**: No data available
- **MRI Scan**: No data available
- **Cancer Surgery**: No benchmark established

CIHI
Supporting International Benchmarking

Figure A: How provinces compare with OECD countries on Health Status indicators

Figure A presents Canadian and provincial results relative to the OECD average, measured in standard deviations. The shaded band represents the area between the top and bottom quarters (25th and 75th percentiles) of OECD countries.
Child and youth mental health in Canada

10% to 20% of Canadian children and youth may develop a mental disorder

Mental disorders among all ages accounted for 13% of the global burden of disease

Profiling populations at risk

Has hospital use for mental disorders changed?

- Increase in ED visits
  - 56%
- Increase in hospitalizations
  - 47%
- Decrease in hospitalizations for other conditions
  - 18%

Notes:
- In a hospital setting, it is common for children and youth to be treated for mental health issues.
- Children and youth with mental health issues often require additional care and support.

How many youth received medication for mental disorders?

1 in 12 youth*

* Approximately 8% of youth living in Canada were prescribed at least one antidepressant or antipsychotic medication for mental health issues.

The most commonly prescribed antipsychotic medication was prescribed to youth almost exclusively at dosages below the recommended range for treating schizophrenia and bipolar disorders.

Visit www.cihi.ca for more detailed information about youth and mental health in Canada.

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Impact
Partnering with others to shed light on care

**Unnecessary care in Canada**

- Wastes health system resources
- Increases wait times for patients
- Can lead to patient harm

Canadians have **1 million+** potentially unnecessary medical tests and treatments each year.

**Up to 30%** of patients indicated in the 8 selected Choosing Wisely Canada recommendations had tests, treatments and procedures that are potentially unnecessary.

There is room to reduce unnecessary care. Substantial variation exists among regions and facilities in terms of the number of unnecessary tests and procedures performed — this points to an opportunity to improve.

Choosing Wisely Canada is a campaign to help clinicians and patients engage in conversations about unnecessary tests and treatments, and make smart choices.

Unnecessary Care in Canada explores 8 out of 200 Choosing Wisely Canada recommendations across sectors of the health system: primary care, specialist care, emergency care and hospital care.
Responding to the opioid crisis in Canada

CIHI has committed to:

- Developing key metrics on the prevalence, consumption and harms
- Collaborating with provincial/territorial chief coroners and medical examiners to release recommendations for the investigation and reporting of drug-related deaths
- Publicly report on an ongoing basis the number of opioid-related deaths
Questions?