



Canadian Institute for Health Information

Better Data. Better Decisions. Healthier Canadians.



Data Liberation  
Initiative

# CIHI's Graduate Student Data Access Program (GDSAP)



James Doiron,  
RDM Services Coordinator & DLI Representative

Digital Initiatives



UNIVERSITY OF ALBERTA  
LIBRARIES

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# Bird's eye view:

1. What is CIHI?
2. Why am I presenting on CIHI data?
3. CIHI's data holdings
4. How can users access CIHI data?
5. What is the Graduate Student Data Access Program (GSDAP)?





Canadian Institute for Health Information

**Better Data. Better Decisions. Healthier Canadians.**

- Independent not-for-profit organization, EST. 1994
- Collects and provides information and data on Canada's health system & the health of Canadians
- Partners include both Statistics and Health Canada, as well as Health Ministries across the country

### Strategic goals (2016-2021):

- 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

# Why am I presenting on CIHI?

- Applied health research background:
  - Autism Spectrum Disorders Canadian-American Consortium (ASD-CARD), Queen's University (2003-2006)
  - Translating Research in Elder Care (TREC), U of A (2008-2012)
- U of A Health Research Data Repository (HRDR)
  - Co-led development (2009-2012)
  - Manager (2013-2015)
- Experience accessing and working with CIHI data
- Some CIHI data in DLI currently
- Opportunities for more CIHI data in DLI in future

# CIHI's data holdings fall under three categories:

## Health personnel

- National Physician Database (NPDB)
- Registered Nurses Database (RNDB)
- Pharmacist Database (PDB)
- Occupational Therapist Database (OTDB)
- Medical Radiation Technologist Database (MRTDB)
- Medical Laboratory Technologist Database (MLTDB)
- Physiotherapist Database (PTDB)
- Scott's Medical Database (SMD)

## Health spending

- Canadian Management Information System Database (CMDB)
- National Health Expenditure Database (NHEX)

## Health services

- Discharge Abstract Database (DAD)
- National Rehabilitation Reporting System (NRS)
- National Prescription Drug Utilization Information System (NPDUIS)
- Organization for Economic Co-operation and Development (OECD) Health Database (Canadian Segment)
- National Ambulatory Care Reporting System (NACRS)
- Canadian Joint Replacement Registry (CJRR)
- National Trauma Registry (NTR)
- Therapeutic Abortions Database (TADB)
- Ontario Mental Health Reporting System (OMHRS)
- Hospital Morbidity Database (HMDB)
- National Health Expenditure Database (NHEX)
- Canadian Organ Replacement Register (CORR)
- Continuing Care Reporting System (CCRS)
- Hospital Mental Health Database (HMHDB)
- Canadian Management Information System Database (CMDB)
- Canadian Multiple Sclerosis Monitoring System (CMSMS)





- [Access Data](#)
- [Bulletins and Technical News](#)
- [Data Holdings](#)
- [Data Quality](#)
- [Data Submission](#)
- [interRAI](#)
- [Standards](#)
- [Vendor Licensing](#)



## Data and Standards



### Featured products

[interRAI Implementation Toolkit](#)

Health organizations use interRAI assessment standards to assess people at the point of care. Real-time information supports clinical, funding and program planning decisions. This toolkit helps organizations implement these standards.

[Indicator Library](#)

[MIS Standards 2016](#)

[Acute and Ambulatory Care Data Content Standard](#)

[All featured products >>](#)

### Data and Standards information

[Bulletins and technical news](#)

The latest information related to the collection, processing and release of CIHI's data for data suppliers and users.

### Looking for Client Services?

Client Services is now in [Applications](#).

### News

#### Bulletin

October 12, 2016

[National Nursing Data Standards Symposium Proceedings](#)

#### Bulletin

April 15, 2016

[CIHI's eQuery Tool: 2016-2017 Enhancements](#)

#### Bulletin

April 13, 2016

[Scanning Product Barcodes for the Canadian Joint Replacement Registry](#)

[MORE NEWS](#)

Access Data
Bulletins and Technical News
<b>Data Holdings</b>
Data Quality
Data Submission
interRAI
Standards
Vendor Licensing

# Data Holdings

CIHI collects comparable, pan-Canadian data on different aspects of the health system.

View a summary of all the  [data available by year and jurisdictional coverage](#).

Researchers, decision-makers and health managers can request specific data from CIHI's databases to suit their information needs.

- [What data can I access?](#)
- [Make a data request](#)

[Visit the Indicator Library](#) to see how CIHI's data holdings are used to calculate key health indicators.

## Data Availability (As of September 30, 2016)

Data Holding	Types of Care/Professions	Most Current Year Available	Next Data Release	Availability of Preliminary Data	
				Data Requests	Reports for Participating Organizations
Hospital Care					
<a href="#">Discharge Abstract Database (DAD)</a>	<ul style="list-style-type: none"><li>• Inpatient</li><li>• Day Surgery</li></ul>	2015–2016	July 2017	✓	Monthly
<a href="#">National Ambulatory Care Reporting System (NACRS)</a>	<ul style="list-style-type: none"><li>• ED Visits</li><li>• Day Surgery</li><li>• Outpatient Clinics</li></ul>	2015–2016	July 2017	✓	Monthly

# Option 1: Publicly accessible data

Interactive reports and analytical tools	Analytical publications	Quick Stats
<ul style="list-style-type: none"><li>• <a href="#">Wait times</a>: Interactive report presents wait times as provinces work to meet benchmarks for priority procedures in Canada</li><li>• <a href="#">Patient Cost Estimator</a>: Estimates the average cost of various services provided in hospitals</li><li>• Looking for indicator information? Visit <a href="#">CIHI's Indicator Library</a> for definitions, methodologies and the location of indicator results on CIHI's website.</li></ul>	<p><a href="#">Published topic-specific analytical reports</a> and products present figures, graphs, tables and accompanying narratives</p>	<p><a href="#">Quick Stats</a> are a series of free, publicly available, aggregate-level reports about Canada's health care statistics. They are available in two formats:</p> <ul style="list-style-type: none"><li>• An <b>interactive</b> format lets you manipulate how you see information. Choose from specific time frames, diagnosis groups, hospital types and so on.</li><li>• A <b>static</b> format has information in tables that are easy to print.</li></ul> <p>View a short <a href="#">Quick Stats video</a> on how to use and interpret these reports.</p>



# Option 2: Data accessible to CIHI clients

CIHI–Statistics Canada Collaborative	E-reports	CIHI Portal
<p>Sample, de-identified, record-level clinical and administrative data from CIHI's Discharge Abstract Database (DAD), accessible through Statistics Canada's <a href="#">Data Liberation Initiative</a> (DLI):</p> <ul style="list-style-type: none"><li>• CIHI and Statistics Canada pilot project since March 2013</li><li>• Data available at no additional cost to post-secondary institutions having access to DLI</li><li>• For more details, send an email to <a href="mailto:dli-idd@statcan.gc.ca">dli-idd@statcan.gc.ca</a></li></ul>	<p>View e-reports based on record-level de-identified information. Visit our <a href="#">data holdings</a> to access secure, interactive, web-based e-reports. Accessible only to data providers and their corresponding ministries.</p>	<p><a href="#">CIHI Portal</a> provides access to enriched, facility-identifiable data on the delivery of services by Canada's hospitals. Accessible only to data providers and their corresponding ministries.</p>

# Option 3: Requesting data from CIHI

1. Submit the online [Data Inquiry Form](#)
2. If request moves forward you then complete:
  - Formal data request form
  - Non-disclosure/confidentiality agreement (NDCA)
3. Finalize data specifications with CIHI
4. CIHI confirms **response time** and **cost**
5. CIHI processes request
6. You securely receive the data requested

Straightforward: 10 (aggregate) to 20 (record level) days

Complex: 20 (aggregate) to 40 (record level) days

Very Complex: Negotiated

**FREE: Graduate students**

\$150/hr: health care facilities, universities, not-for-profit, government, etc

\$300/hr: Private sector/foreign

# What is the GDSAP?

CIHI program which provides data to \*qualifying graduate students at no cost

## Two objectives:

1. To build capacity of graduate students in health service/research
2. To increase awareness of CIHI's data holdings, as well as importance of data quality & privacy

\*“Qualifying”:

1. Fulfilling graduate requirements (e.g., thesis, dissertation, research fellowship),
2. REB approved;
3. Aligns with CIHI's mandates

## Option 3: Requesting data from CIHI

1. Submit the online [Data Inquiry Form](#)
2. If request moves forward **the graduate student and supervisor** then complete:
  - Formal data request form
  - Non-disclosure/confidentiality agreement (NDCA)
3. Finalize data specifications with CIHI
4. CIHI confirms **response time**
5. CIHI processes request
6. Graduate student securely receive the data requested

Straightforward: 10 (aggregate) to 20 (record level) days

Complex: 20 (aggregate) to 40 (record level) days

Very Complex: Negotiated



# CIHI Client Affairs Managers





# Questions?

**James Doiron**

Research Data Management Services Coordinator  
Digital Initiatives  
University of Alberta Libraries

[jdoiron@ualberta.ca](mailto:jdoiron@ualberta.ca)



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