Objectives

- Understand the research cycle
  - Select the best type of resource to meet your research needs
- Identify key McGill library resources
  - Learn about various collections and services
- Learn about other subject specific databases
  - Select a database best suited for your research needs
The Research Cycle

Lab notebooks, Grant proposals

Develop an idea

Encyclopedias, Textbooks

Generalize

Present preliminary research

Conference papers

Books

Integrate

Report Research

Theses and dissertations

Publish Research

Journal Articles
Scope of information sources:

General
- Encyclopedias
- Dictionaries

Specific
- Books (General Topic)
- Books (Specific Topic)
- Books (Collections of Essays)

Newspapers, Magazines, Journals
Things to Consider

• Stage of your research
  • Your level of background knowledge
  • How focused your research question is

• What type of information you are looking for
  • Scope of the information (ex. encyclopedia vs journal article)
  • Information time-line (current vs retrospective)
  • Language
  • Etc.
Key Resources at McGill
Discover various types of resources by completing the exercises on the ‘Research Toolkit Scavenger Hunt’

We will be asking for volunteers to show us how they approached the tasks – don’t be shy!

• McGill Library Catalogue:
  • WorldCat: http://mcgill.worldcat.org/

• Guide to E-books:
  • http://www.mcgill.ca/library/find/ebooks
Liaison librarians

• Subject librarians with expertise in your area of research
• Available for one-on-one research consultations
• Contact your librarian with your questions!

http://www.mcgill.ca/library/contact/askus/liaison
Theses and Dissertations

• **eScholarship@McGill**
  - Theses and dissertations from all McGill departments searchable by author, supervisor, and department, as well as title and abstract

• **ProQuest Dissertations & Theses**
  - Theses and dissertations from around the world
Interlibrary Loan (ILL)

• **COLOMBO is our Interlibrary Loan (ILL) system**
  - Request a work-related book or article from anywhere in the world:
    

• Before submitting an ILL request:
  - Check the catalogue before submitting ILL requests (will only process requests for items labeled missing or lost)
    • Exception: OK to request print versions of ebooks we own
  - Cannot borrow ebooks through ILL but can get PDFs of chapters
  - Respect the due date or request a renewal online

• **ILL questions**: colombo.library@mcgill.ca
• **BCI Card** (*Bureau de Coopération Interuniversitaire*)
  
  • Your BCI Card gives you borrowing privileges at other academic libraries in Quebec and across Canada.

  http://www.mcgill.ca/library/services/otherloans

  • BCI cards are available from any branch library during normal business hours.
Beware online filter bubbles!

“it will be very hard for people to watch or consume something that has not in some sense been tailored for them.”

-Eric Schmidt, Google

https://startpage.com/

https://duckduckgo.com/

Country specific Google (google.fr, google.co.uk, etc.)
Articles and conference papers

- **Journal articles** are the primary means of research dissemination in science and medicine
- **Conference papers** report research in-progress

http://www.mcgill.ca/library/find/reference/conferences

Find journal articles and conference papers by searching databases
## Subject Guides

<table>
<thead>
<tr>
<th>Use the Library</th>
<th>Find</th>
<th>Subject guides</th>
</tr>
</thead>
<tbody>
<tr>
<td>Library account</td>
<td>Databases A-Z</td>
<td>Agriculture &amp; environmental sciences</td>
</tr>
<tr>
<td>Article scan service</td>
<td>E-journals A-Z</td>
<td>Art, architecture &amp; urban planning</td>
</tr>
<tr>
<td>Interlibrary loan (ILL)</td>
<td>Course reserves</td>
<td>Education</td>
</tr>
<tr>
<td>Questions? Ask Us!</td>
<td>Course guides</td>
<td>Engineering</td>
</tr>
<tr>
<td>Find a librarian</td>
<td>Citation guides</td>
<td>Health &amp; biological sciences</td>
</tr>
<tr>
<td>Hours</td>
<td>Reference materials</td>
<td>Humanities</td>
</tr>
<tr>
<td>Room booking</td>
<td>Theses &amp; dissertations</td>
<td>Law</td>
</tr>
<tr>
<td>Computers &amp; software</td>
<td>Newspapers</td>
<td>Management &amp; business</td>
</tr>
<tr>
<td>uPrint: scan, print, copy</td>
<td>Maps &amp; geospatial data</td>
<td>Music</td>
</tr>
<tr>
<td>Borrowing books, etc</td>
<td>Government information</td>
<td>Physical sciences</td>
</tr>
<tr>
<td>Workshops</td>
<td>Audio/visual materials</td>
<td>Social sciences</td>
</tr>
</tbody>
</table>
Why do we have so many databases?

• Subject areas
• Journal coverage
• Date coverage
• Geography
Databases

Database 1

Database 2

Example: Scopus v. Web of Science
## Database comparison

<table>
<thead>
<tr>
<th>Database</th>
<th>Subject areas</th>
<th>Dates covered</th>
<th>Types of information indexed</th>
<th>Controlled vocabulary</th>
</tr>
</thead>
<tbody>
<tr>
<td>MEDLINE / PubMed</td>
<td>Biomedicine and health care</td>
<td>1946 to present</td>
<td>Journal articles, conference proceedings (<a href="https://www.nlm.nih.gov/mesh/subject-guide.html">NLM subject guide on conference proceedings</a>)</td>
<td>Yes: MeSH</td>
</tr>
<tr>
<td>Embase</td>
<td>Biomedicine and pharmacology</td>
<td>1947 to present</td>
<td>Journal articles, conference proceedings</td>
<td>Yes: Emtree</td>
</tr>
<tr>
<td>BIOSIS</td>
<td>Biomedicine and biology</td>
<td>1926 to present</td>
<td>Journal articles, conference proceedings, patents, technical papers</td>
<td>Very poor</td>
</tr>
<tr>
<td>Web of Science</td>
<td>All subjects</td>
<td>1899 to present</td>
<td>Journal articles, conference proceedings, patents</td>
<td>No</td>
</tr>
<tr>
<td>Google Scholar</td>
<td>All subjects</td>
<td>?</td>
<td>Everything</td>
<td>No</td>
</tr>
</tbody>
</table>
"That which is produced on all levels of government, academics, business and industry in print and electronic formats, but which is not controlled by commercial publishers."

The Fourth International Conference on Grey Literature, (Luxembourg, 1997)

(i.e. where publishing is not the primary activity of the producing body.)
## Grey literature

<table>
<thead>
<tr>
<th>Type of information</th>
<th>Examples</th>
<th>Helpful Links</th>
</tr>
</thead>
<tbody>
<tr>
<td>Data and statistics</td>
<td>• Statistics Canada&lt;br&gt;• Health Canada&lt;br&gt;• NCBI</td>
<td><a href="http://www.mcgill.ca/library/find/edrs">http://www.mcgill.ca/library/find/edrs</a></td>
</tr>
<tr>
<td>information</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Theses and dissertations</td>
<td>• McGill theses&lt;br&gt;• Other theses</td>
<td><a href="http://www.mcgill.ca/library/find/theses">http://www.mcgill.ca/library/find/theses</a></td>
</tr>
</tbody>
</table>
Health Stats - Overview

Canada

• Statistics Canada
• Canadian Institute for Health Information (CIHI)

Global

• World Bank Development Indicators (open data)
• OECD iLibrary (McGill subscription)
• World Health Organization (WHO) (open data)
• UNData (open data)
Recent Statistics Canada releases

- **Study: Depression and suicidal ideation among Canadians aged 15 to 24**  Jan 18, 2017
- **Product/Study: Health Reports, Vol. 28, no. 1**  Jan 18, 2017
- **Product/Study: Tanning equipment use: 2014 Canadian Community Health Survey, Health Reports**  Jan 18, 2017
- **Product/Study: Depression and suicidal ideation among Canadians aged 15 to 24, Health**

Canadian Sources

Unless specified, sources listed below are publications of Statistics Canada.

- **Births (1997-2009)**
  This product presents statistical tables showing the number of live births and fetal deaths (stillbirths) of at least 20 weeks' gestation or birth weight of 500 grams or more; total and age-specific fertility rates and crude birth rates; live births by age of mother and live birth order, male and female birth weights; weeks of gestation at the time of birth; and multiple births. Numbers are shown for Canada, the ten provinces and the three territories. See also:
  - CANSIM tables 102-4005 and 102-4501 to 102-4516.
  - Births and deaths (1995)

- **Canadian Cancer Statistics (Canadian Cancer Society)**

- **Canadian Community Health Survey**
  "The public use microdata file from the Canadian Community Health Survey (CCHS) provides data for health regions combined health regions across Canada. It includes information on a wide range of topics, including alcohol consumption, chronic health conditions, fruit and vegetable consumption, general health, use of health services, height and weight, injuries, physical activity, restriction of activities and smoking. It also provides information on the socio-demographic characteristics, the income and the labour force characteristics of the population. Data were collected from over 130,000 respondents, aged 12 or older, residing in households across all provinces and territories."
  - Access restriction: **DL**
  - **Documentation**
  - Public-use microdata file via <odes>
Health in Canada

Your resource for Canadian health statistics.

Spotlight on...

Call for proposals for the Canadian Health Measures Survey (CHMS) Biobank

From November 1 to December 31, 2016, Statistics Canada is inviting researchers to apply for access to blood, urine and DNA samples from the CHMS Biobank for use in health studies.

Further details about the application and review process may be found by visiting the Biobank section of the CHMS website or by contacting the CHMS biobank coordinator at statcan.chms-biobank-ecms-biobanque.statcan@canada.ca
Health

General

General resources either cover many of the subtopics, or are too specific to correspond to any of the subtopics.

Resources

- [Latest news releases in The Daily](#) (71)
- [Summary tables](#) (1)
- Census tables (0)
- [Detailed tables from CANSIM](#) (23)
- [Publications](#) (303)
- [Information for analysts and researchers](#) (205)
- [Definitions, data sources and methods](#) (56)
Health

According to the World Health Organization, "health is a complete state of mental, physical and social well-being, not only the absence of disease". These topics provide information on the health of the population, lifestyle and environmental factors affecting health, access to and use of health care services, and research into health topics.

Subtopics

- Health (general)
- Disability
- Diseases and health conditions
- Environmental factors
- Health care services
- Life expectancy and deaths
- Lifestyle and social conditions
- Mental health and well-being
- Pregnancy and births
- Prevention and detection of disease
- All subtopics for Health

Featured products

- Canada Year Book (Health)
- Health in Canada
- Health Reports
- Health Research Working Paper Series
- Health Indicators
- Health Profile
- Teenage pregnancy: Guide to the latest information
- Smoking: Guide to the latest information
- Suicide: Guide to the latest information
- Analytical Studies Branch Research Paper Series

External links

- Public Health Agency of Canada
- Canadian Institute for Health Information
- Health Canada
Tables by subject: Health

- Health
- Disability
- Diseases and health conditions
- Environmental factors
- Health care services
- Life expectancy and deaths
- Lifestyle and social conditions
- Mental health and well-being
- Pregnancy and births
- Prevention and detection of disease
## Exposure to second-hand smoke at home by age group and sex (Number)

<table>
<thead>
<tr>
<th>Age Group</th>
<th>2011</th>
<th>2012</th>
<th>2013</th>
<th>2014</th>
</tr>
</thead>
<tbody>
<tr>
<td>Both sexes</td>
<td>1,268,943</td>
<td>1,097,658</td>
<td>1,069,994</td>
<td>962,682</td>
</tr>
<tr>
<td>Males</td>
<td>661,980</td>
<td>526,252</td>
<td>488,402</td>
<td>504,740</td>
</tr>
<tr>
<td>Females</td>
<td>606,963</td>
<td>571,406</td>
<td>581,592</td>
<td>457,942</td>
</tr>
<tr>
<td>12 to 19 years</td>
<td>373,437</td>
<td>333,525</td>
<td>302,605</td>
<td>268,358</td>
</tr>
<tr>
<td>Males</td>
<td>195,331</td>
<td>169,150</td>
<td>144,158</td>
<td>139,399</td>
</tr>
<tr>
<td>Females</td>
<td>178,106</td>
<td>164,375</td>
<td>158,447</td>
<td>128,959</td>
</tr>
<tr>
<td>20 to 34 years</td>
<td>303,711</td>
<td>247,458</td>
<td>232,473</td>
<td>214,808</td>
</tr>
<tr>
<td>Males</td>
<td>171,142</td>
<td>135,760</td>
<td>91,727</td>
<td>96,795</td>
</tr>
<tr>
<td>Females</td>
<td>132,569</td>
<td>111,698</td>
<td>140,746</td>
<td>118,013</td>
</tr>
<tr>
<td>35 to 44 years</td>
<td>111,702</td>
<td>73,297</td>
<td>70,315</td>
<td>64,791</td>
</tr>
</tbody>
</table>
Note:

CANSIM has replaced the term "Terminated" with the term "Archived" for all terminated tables. Terminated members and series are still possible within active tables.

Statistics Canada encourages the downloading and reuse of its data. Full dataset downloads are available in CANSIM - see the download tab on any CANSIM table. Please note that the high volume harvesting of data using data scraping techniques or automated crawlers which do not conform to industry best practices cannot be supported. When such activity is detected, continued access to our online content will be denied. If you require assistance or for further information please Contact us.

Search CANSIM

Enter your search terms, CANSIM table or series number(s)

Search
<table>
<thead>
<tr>
<th>Title</th>
<th>Description</th>
<th>Table no.</th>
</tr>
</thead>
<tbody>
<tr>
<td>Aboriginal peoples survey, perceived general health, by Aboriginal identity, age group and sex, population aged 6 years and over, Canada, provinces and territories, occasional</td>
<td>Description</td>
<td>577-0001</td>
</tr>
<tr>
<td>Aboriginal peoples survey, perceived general health, by age group and sex, Inuit population aged 6 years and over, Canada and Inuit Nunangat, occasional</td>
<td>Description</td>
<td>577-0002</td>
</tr>
<tr>
<td>Changes in self-rated health between 1994/1995 and 2010/2011, household population aged 12 and over who rated their general health every 2 years, by age group and sex, Canada and provinces, every 2 years</td>
<td>Description</td>
<td>104-7018</td>
</tr>
<tr>
<td>Changes in self-rated health since 1994/95, household population aged 12 and over who rated their general health every 2 years, between 1994/95 and 2000/01, by age group and sex, Canada and provinces, every 2 years</td>
<td>Description</td>
<td>104-7017</td>
</tr>
<tr>
<td>Dependency ratio (2006 Census and administrative data), by age group for July 1st, Canada, provinces, territories, health regions (2013 boundaries) and peer groups, annually</td>
<td>Description</td>
<td>109-5326</td>
</tr>
<tr>
<td>Dependency ratio (2011 Census and administrative data), by age group for July 1st, Canada, provinces, territories, health regions (2013 boundaries) and peer groups, annually</td>
<td>Description</td>
<td>109-5336</td>
</tr>
</tbody>
</table>
## Table 577-0006

Aboriginal peoples survey, long-term health problems (self-reported) by Aboriginal identity, age group and sex, population aged 12 years and over, Canada, provinces and territories

### Data table

The data below is a part of CANSIM table 577-0006. Use the Add/Remove data tab to customize your table.

### Selected items

- **Geography**: Canada
- **Aboriginal identity**: Total, Aboriginal identity
- **Age group**: Total, 12 years and over
- **Sex**: Both sexes
- **Statistics**: Number of persons (persons)

<table>
<thead>
<tr>
<th>Long-term health problems (self-reported)</th>
<th>2012</th>
</tr>
</thead>
<tbody>
<tr>
<td>Total, long-term health problems (self-reported)</td>
<td>852,150</td>
</tr>
<tr>
<td>With no long-term health problem</td>
<td>326,460</td>
</tr>
<tr>
<td>With long-term health problems</td>
<td>486,470</td>
</tr>
<tr>
<td>With long-term health problem: asthma</td>
<td>117,650</td>
</tr>
<tr>
<td>With long-term health problem: arthritis (excluding fibromyalgia)</td>
<td>144,580</td>
</tr>
<tr>
<td>With long-term health problem: high blood pressure</td>
<td>127,960</td>
</tr>
</tbody>
</table>
### Total, Aboriginal Identity
- First Nations (North American Indian)
- First Nations (North American Indian), Registered or Treaty Indian
- First Nations (North American Indian), not a Registered or Treaty Indian
- Métis

### Step 3 - Select: Age group
(1 of 5 items selected)

Use the following checkboxes to select/deselect items from the list below:
- All
- Total, 12 years and over
  - 12 to 14 years
  - 15 to 24 years
  - 25 to 54 years
  - 55 years and over

### Step 4 - Select: Sex
(1 of 3 items selected)

Use the following checkboxes to select/deselect items from the list below:
- All
- Both sexes
  - Male
  - Female

### Step 5 - Select: Long-term health problems (self-reported)
(8 of 8 items selected)

Use the following checkboxes to select/deselect items from the list below:
- All
- Total, long-term health problems (self-reported)
  - With no long-term health problem
  - With long-term health problems
  - With long-term health problem: asthma
<odesi> contains over 3,535 datasets for the social sciences, with more than 13,000 additional dataset descriptions available for searching.

Collections:
- All of <odesi>
- Statistics Canada (Microdata)
- Statistics Canada (Aggregate data)
- Public Opinion Polls
- Other Data

Additional Collections:
- Statistics Canada (Master File)
- CORA
- ICPSR
- Canadian Dataverses

Search

Learning Tools
- Video Tutorials
- User Guide
- FAQ

About
- About <odesi>
- Who can Access it
- Terms of Use

McGill Library. Everything You Need.
Health

- CANADA
  - Alcohol Consumption in Canada: A National Survey
  - Canada Fitness Survey
  - Canada Health Monitor
  - Canada Health Survey (CHS)
  - Canada’s Alcohol and Other Drugs Survey (CADS)
  - Canadian Addiction Survey (CAS)
  - Canadian Alcohol and Drug Use Monitoring Survey (CADUMS)
  - Canadian Community Health Survey (CCHS)
  - Canadian Fertility Survey
  - Canadian Health and Disability Survey
  - Canadian Heart Health Database
  - Canadian Survey of Experiences with Primary Health Care
  - Canadian Tobacco, Alcohol and Drugs Survey (CTADS)
  - Canadian Tobacco Use Monitoring Survey (CTUMS)
  - Canadians' Attitudes Toward the Health Care System
  - Discharge Abstract Database (DAD)
  - Health and Activity Limitation Survey (HALS)
  - Health Behaviour In School-Aged Children
  - Health Promotion Survey (HPS)
  - Health Regions
  - Health Statistics at a Glance
  - Joint Canada/United States Survey of Health (JCUSH)
  - National Alcohol and Drug Survey (NADS)
  - National Population Health Survey (NPHS)
  - National Survey on Drinking and Driving
  - Occupational Surveillance in Canada
  - Ontario Health Survey (OHS)
  - Participation and Activity Limitation Survey (PALS)
  - Smoking Habits of Canadians
Canadian Community Health Survey, 2014: Annual Component

- Metadata
- Variable Description
  - Access to Health Care Services
  - Activities of Daily Living
  - Administrative Information
  - Alcohol Use
  - Alcohol use - Dependence
    - Alcohol dependence scale - short form score (D)
    - Probability of caseness to respondents - (D)
    - Alcohol interference - mean - 12 months (D)
    - Alcohol interference - 12 months - (F)
  - Alcohol Use During the Past Week
  - Blood Pressure Check
  - Changes Made to Improve Health
  - Chronic Conditions
  - Colorectal Cancer Screening
  - Consultations about Mental Health
  - Contacts with Health Professionals
  - Dental Visits
  - Depression
  - Diabetes Care
  - Distress
  - Driving and Safety
  - Dwelling and Household Variables
  - Education
  - Exposure to Second-Hand Smoke
  - Eye examinations
  - Flu Shots
  - Food Choices
  - Food Security
  - Fruit and Vegetable Consumption
  - General Health
  - Geography Variables
  - Health care system satisfaction
  - Health Care Utilization
  - Health Utilities Index
  - Height and Weight - Self Reported
  - Illicit Drug Use
  - Income
  - Injuries
Download

Please select a data format from the drop-down box. If you wish to download a subset of the data, click on the 'Subset' button. Click on 'Download' to start downloading. Please note that you may be asked for a password.

- SPSS
- Include documentation

Download the documentation

Please select a download format from the drop-down box. Click on 'Download' to start downloading.

- In pdf format
- DOWNLOAD
Quick Stats

Quick Stats are a series of free, publicly available, reports that provide aggregate-level data about health care in Canada. Unless otherwise indicated, the original data is provided to CIHI by Canada's provinces and territories.

You can view this data in two different ways:

- An interactive format lets you manipulate how you see the health system information. Choose from specific time frames, diagnosis groups, hospital types and so on. View a short Quick Stats video on how to understand and use these reports.
- A static format has information in tables that are easy to print.

<table>
<thead>
<tr>
<th>Type</th>
<th>Topic</th>
<th>Statistics</th>
<th>Topic</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pre-formatted Table</td>
<td>Primary Health Care</td>
<td>PHC Adults Age 45 to 64 and Seniors Who Reported Individual Chronic Conditions</td>
<td>Primary Health Care</td>
</tr>
<tr>
<td>Pre-formatted Table</td>
<td>Primary Health Care</td>
<td>PHC Percentage of Adults Who Reported Having at Least 1 of 11 Chronic Conditions</td>
<td>Primary Health Care</td>
</tr>
<tr>
<td>Pre-formatted Table</td>
<td>Primary Health Care</td>
<td>PHC Percentage of Seniors Who Reported Having 1 or More of 11 Chronic Conditions, for Canada and by Province (Age–Sex Standardized)</td>
<td>Primary Health Care</td>
</tr>
<tr>
<td>Pre-formatted Table</td>
<td>Primary Health Care</td>
<td>PHC Rates of Health Care Visits in the Past 12 Months, by Number of Chronic Conditions</td>
<td>Primary Health Care</td>
</tr>
<tr>
<td>Pre-formatted Table</td>
<td>Primary Health Care</td>
<td>The Commonwealth Fund 2014 International Health Survey of Older Adults</td>
<td>Primary Health Care</td>
</tr>
</tbody>
</table>
The Graduate Student Data Access Program (GSDAP)

What is the GSDAP?

CIHI provides data to qualifying graduate students at no cost through the Graduate Student Data Access Program (GSDAP). Graduate students conducting research can access data through various databases and clinical registries in the following areas:

- Health Services;
- Health Spending; and
- Health Human Resources

The GSDAP has two objectives:

- To build the capacity of graduate students to undertake health service research; and
- To increase awareness of CIHI and CIHI’s data holdings, and the importance of data quality and privacy, as graduate students pursue health service careers.

Eligibility Criteria for the GSDAP

Data may be provided under CIHI’s Graduate Student Data Access Program for requests that meet the following criteria:

1. Data are to be used by the student to fulfill graduate requirements (for example, master’s thesis, PhD dissertation or medical research fellow requirements).
2. The research project was reviewed by a research ethics board (as appropriate).
3. The research project will support CIHI’s mandate to provide accurate and timely information that is required for sound health policy, effective management of the health care system and public awareness of health determinants.
Recommended strategy

1. Search your term using the main search bar.

2. No luck?
   - No results -> You may be searching the wrong term. Check the thesaurus.
   - Too many results -> Use Advanced Search
   - Not sure what you’re looking for -> Browse by subject

3. Still no luck? Search Google using site:.gc.ca

4. Go to the numeric data library website.

5. Ask a librarian for specialized support.
1. What percentage of Canadians (aged 20-34) received a flu shot less than a year ago in 2014?

2. How many Quebecers received the flu shot during that time?
Using data in CANSIM, what was the most common wait time for non-emergency surgeries in Quebec?

a) <1 month
b) 1-3 months
c) >3 months
Module 3 – Search Strategies

- Learn effective research strategies
- Find relevant information
- Refine search topics
- Use alerting services and RSS to keep up to date

See you next time!
Questions?

Genevieve Gore
genevieve.gore@mcgill.ca
(514) 398-3472

Kathryn Jacob
kathryn.wright@mail.mcgill.ca

Martin Morris
martin.morris@mcgill.ca
(514) 398-8140