

IHE In Your Pocket
A Handbook of Health
Economic Statistics

2017



INSTITUTE OF
HEALTH ECONOMICS
ALBERTA CANADA

The Institute of Health Economics (IHE) is an independent, not-for-profit organization that performs research in health economics and synthesizes evidence in health technology assessment to assist health policy making and best medical practices.

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The Institute of Health Economics (IHE) is a non-profit organization that provides research to support policy and practice in a broad range of areas which impact health, including health care, public health, education, legal, and other services.

The IHE produces a large number of evaluations within our health technology assessment (HTA) and economic modelling programs, along with other economics intelligence studies that inform policy. The IHE also facilitates discussions about current issues in health through a number of initiatives, such as our series of consensus development conferences, policy forums, and targeted knowledge exchange programs.

The secretariats of the main international organizations in the fields of HTA are located within the IHE, namely HTAi (Health Technology Assessment International) and INAHTA (International Network of Agencies in Health Technology Assessment).

Introduction

IHE In Your Pocket was designed to provide a compact, comprehensive, and comparative overview of the economic aspects of the Canadian health care system. It was first published in 2006. The 2017 version follows the pattern of the previous, 2014 edition. We use similar categories to those in 2014, including aggregate costs, utilization and cost data for separate sectors or provider groups, population indicators, and system-wide performance indicators. All data sources are referenced.

In the present version we have expanded some components, notably pharmaceuticals and long-term care, where new data has become available. We provide data comparing provinces and countries that have similar levels of economic development to Canada. We have placed cross-provincial and cross-national indicators on adjacent pages; the reader should note that these numbers sometimes come from different sources, and they are not always strictly comparable. We also provide trend graphs where data was available.

We hope you like *IHE In Your Pocket 2017* and we would appreciate any comments or suggestions you might have. You can send these to info@ihe.ca, or write to us at the address on the back cover.

IHE project staff for the 2017 version included Philip Jacobs, who has directed *IHE In Your Pocket* since it was conceived by Egon Jonsson, the IHE CEO. Fernanda Nagase conducted the research and writing of this version, along with Jian Wang. Lisa Tjosvold, Dagmara Chojewski, and Carla Martin conducted searches and provided referencing guidance, and Stefanie Kletke assisted with editing and formatting.

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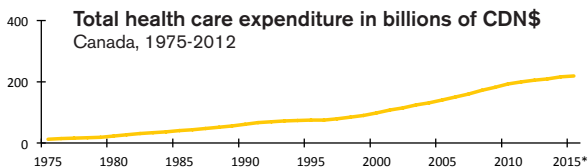
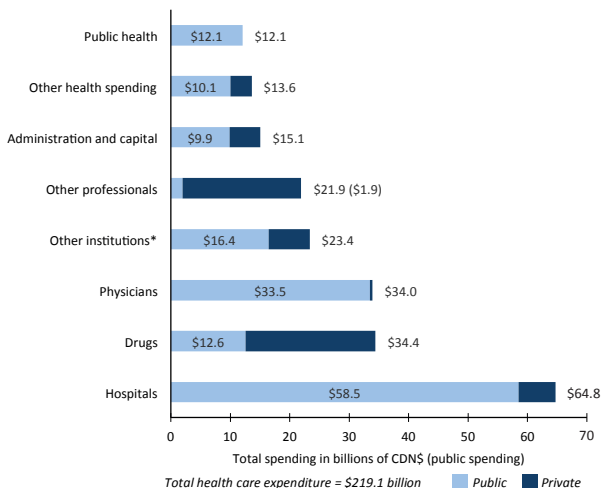
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Health Care Expenditures



Total health expenditure by category of funds

Canada, 2015



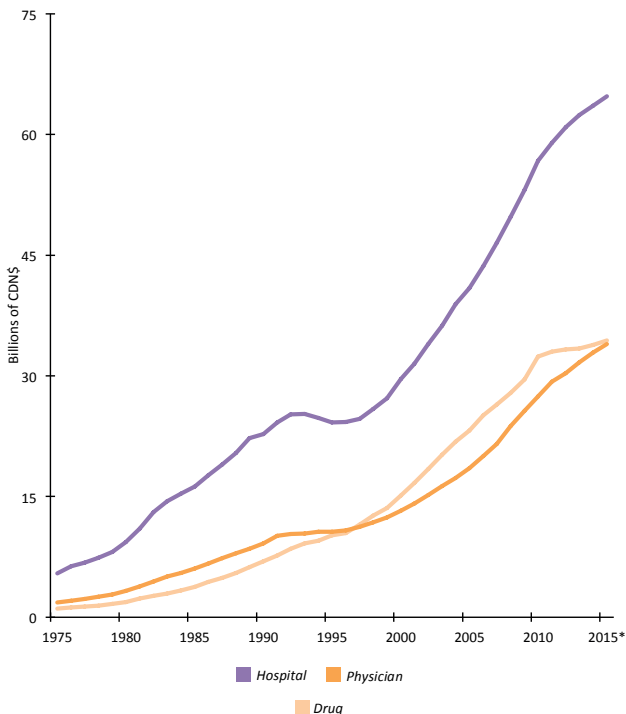
*CIHI defines *other institutions* as "residential care types of facilities (for the chronically ill or disabled, who reside at the institution more or less permanently) and that are approved, funded or licensed by provincial or territorial departments of health and/or social services"

**Forecast data

Source: National health expenditure trends, 1975-2015. Canadian Institute for Health Information. Accessed at <https://www.cihi.ca/en/spending-and-health-workforce/spending/national-health-expenditure-trends> on October 2, 2016. www.cihi.ca

Selected health care expenditure

Canada, 1975-2015

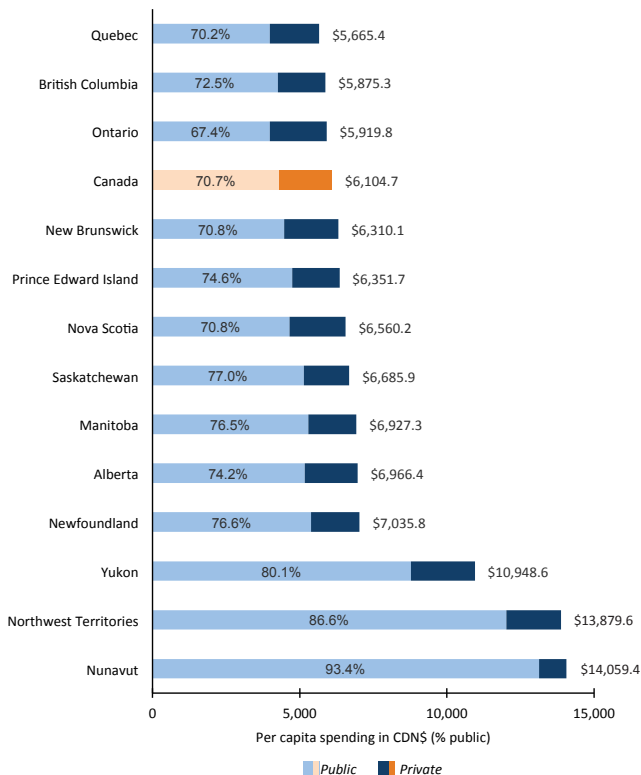


*Forecast data

Source: National health expenditure trends, 1975-2015. Canadian Institute for Health Information. Accessed at <https://www.cihi.ca/en/spending-and-health-workforce/spending/national-health-expenditure-trends> on October 2, 2016. www.cihi.ca

Health care expenditure per capita

Canada, 2015

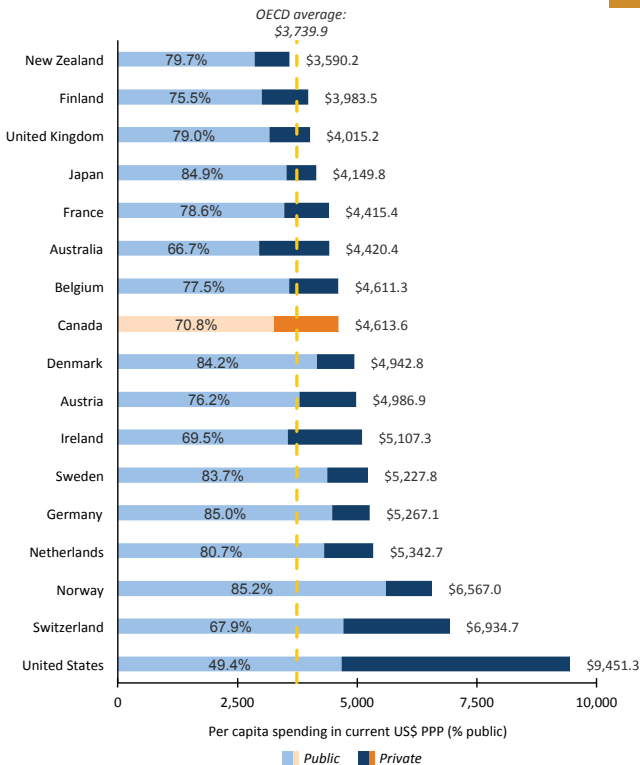


Note: Forecast data for 2015

Source: National health expenditure trends, 1975-2015. Canadian Institute for Health Information. Accessed at <https://www.cihi.ca/en/spending-and-health-workforce/spending/national-health-expenditure-trends> on March 23, 2016. www.cihi.ca

Health care expenditure per capita

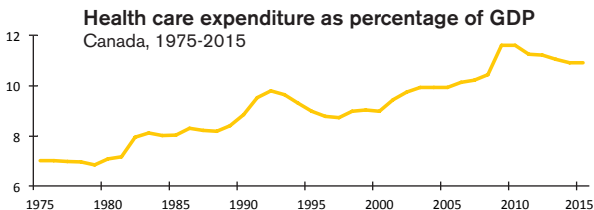
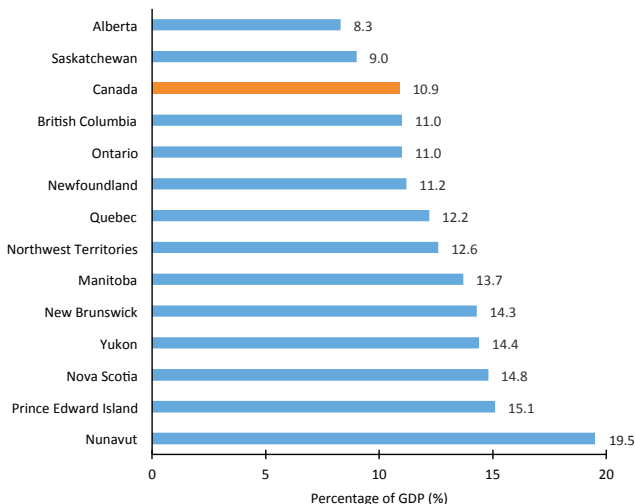
selected OECD countries, 2015



Source: OECD health statistics, 2015. Organization for Economic Co-operation and Development.
 Accessed at <http://stats.oecd.org/viewhtml.aspx?datasetcode=SHA&lang=en#> on July 14, 2016.
www.oecd.org

Health care expenditure as percentage of gross domestic product (GDP)

Canada, 2015

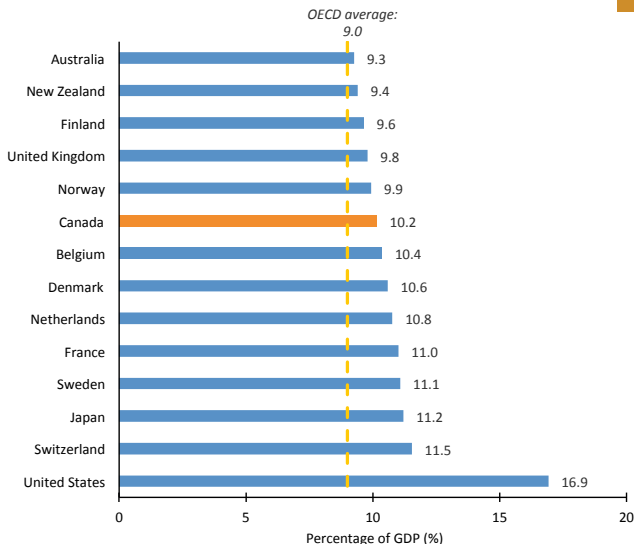


*2014 and 2015 are forecast data

Source: National health expenditure trends, 1975-2015. Canadian Institute for Health Information. Accessed at <https://www.cihi.ca/en/spending-and-health-workforce/spending/national-health-expenditure-trends> on October 2, 2016. www.cihi.ca

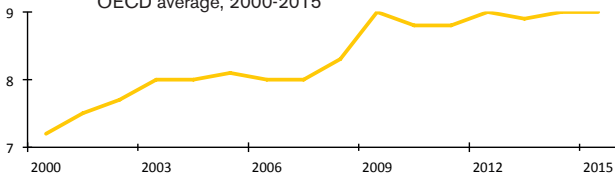
Health care expenditure as percentage of GDP

selected OECD countries, 2015



Health care expenditure as percentage of GDP

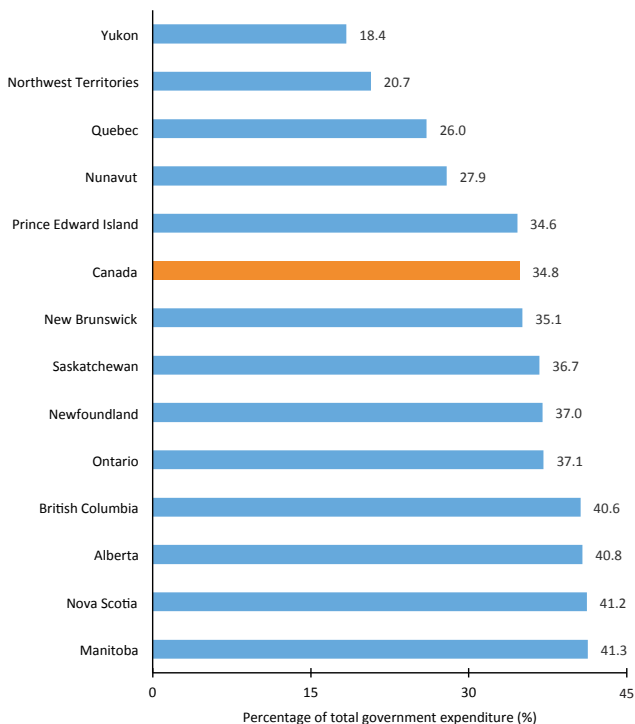
OECD average, 2000-2015



Source: OECD health statistics, 2015. Organization for Economic Co-operation and Development.
 Accessed at <http://stats.oecd.org/viewhtml.aspx?datasetcode=SHA&lang=en#> on July 7, 2016.
www.oecd.org

Provincial health care expenditure as percentage of provincial government expenditure

Canada, 2014

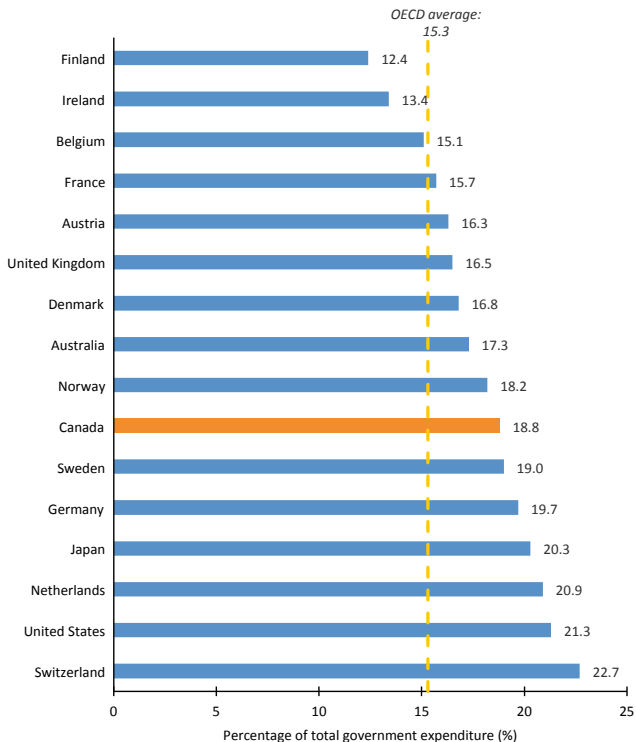


Note: Forecast data for 2014

Source: National health expenditure trends, 1975-2015. Canadian Institute for Health Information. Accessed at <https://www.cihi.ca/en/spending-and-health-workforce/spending/national-health-expenditure-trends> on October 2, 2016. www.cihi.ca

National health care expenditure as percentage of government expenditure

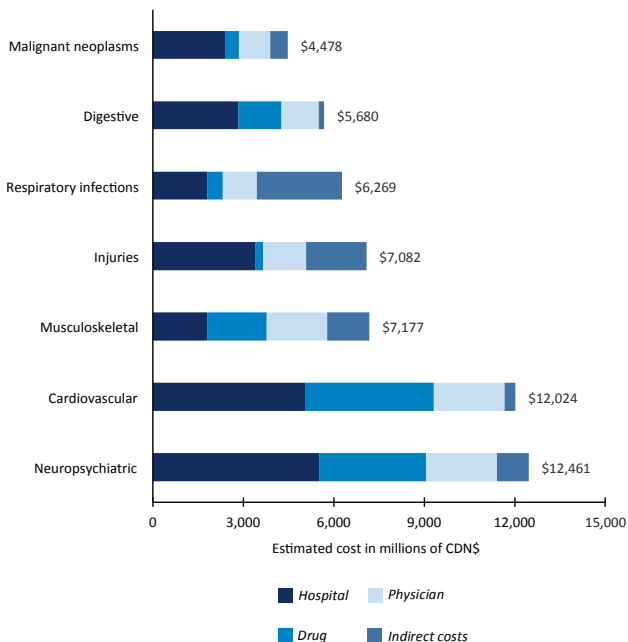
selected OECD countries, 2014



Source: Percentage of total government expenditure on health as percentage of total government expenditure. The World Health Organization. Accessed at http://www.who.int/gho/health_financing/government_expenditure/en/ on July 7, 2016. www.who.int

Estimated cost for selected diagnostic categories by major cost categories

Canada, 2008

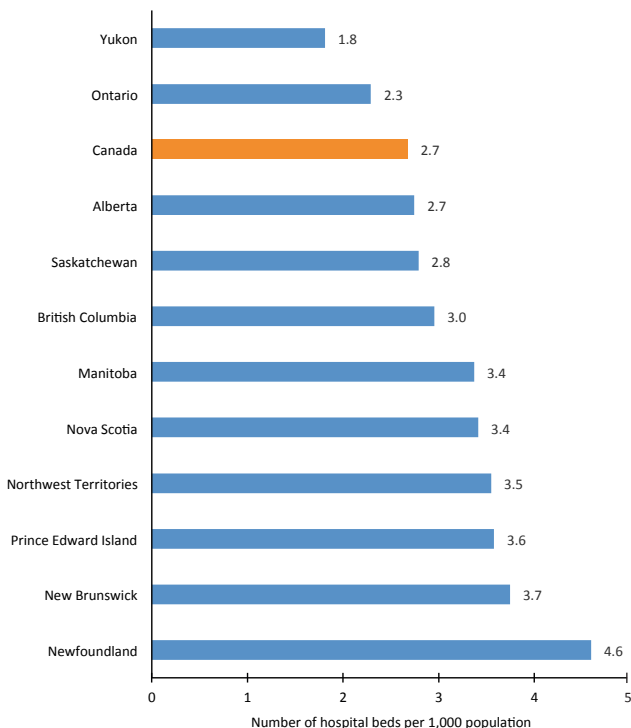


Source: Economic burden of illness in Canada (EBIC). Public Health Agency of Canada. Accessed at <http://ebic-femc.phac-aspc.gc.ca/index.php> on August 25, 2016. www.phac-aspc.gc.ca

Hospital Inpatient Services



Hospital beds per 1,000 population Canada, 2014-2015



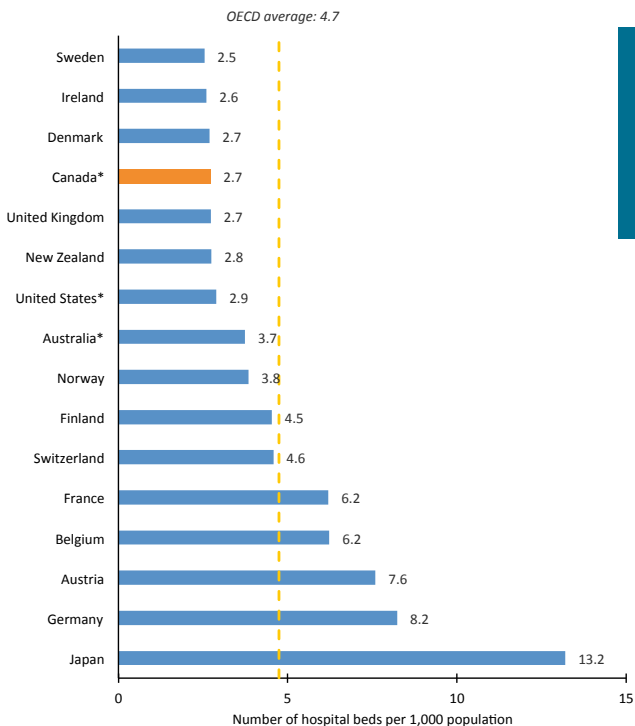
Note: Represents the number of beds and cribs available in hospitals for intensive care, obstetrics, pediatrics, psychiatry, rehabilitation, long-term care, and other acute care. Data was not available for Nunavut and Yukon.

Source: Hospital beds and staffed in operation, 2014-2015. Canadian Institute for Health Information. Accessed at <https://www.cihi.ca/en/quick-stats> on July 7, 2016. www.cihi.ca

Population by year, by province and territory. Statistics Canada. Accessed at <http://www.statcan.gc.ca/tables-tableaux/sum-som/l01/cst01/demo02a-eng.htm> on July 7, 2016. www.statcan.gc.ca

Hospital beds per 1,000 population

selected OECD countries, 2014



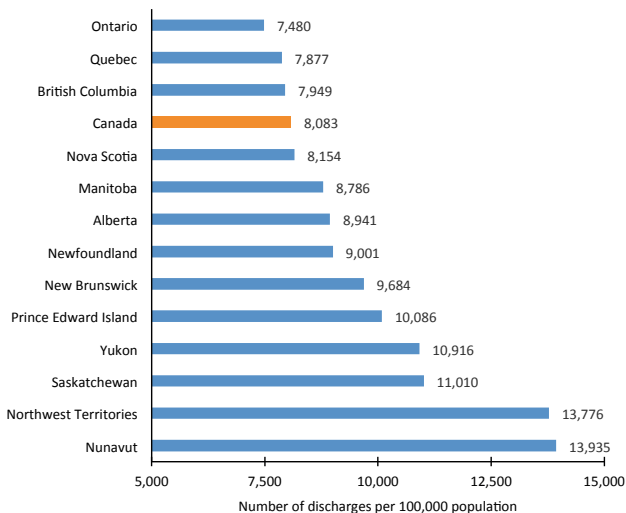
Note: Represents the number of beds available in hospitals for acute care, psychiatric care, and other specialist care

*2013 data

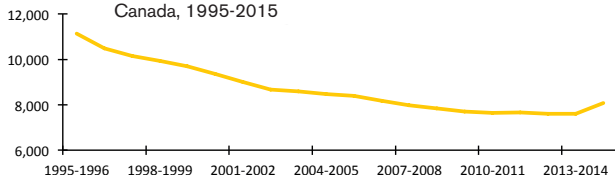
Source: Health care resources. Organization for Economic Co-operation and Development. Accessed at http://stats.oecd.org/viewhtml.aspx?datasetcode=HEALTH_REAC&lang=en# on March 23, 2017. www.oecd.org

Hospital discharge rates per 100,000 population

Canada, 2014-2015



Hospital discharge rates per 100,000 population Canada, 1995-2015



Note: Data standardized by age and sex

Source: Inpatient hospitalizations: Volumes, length of stay, and standardized rates. Canadian Institute for Health Information. Accessed at https://apps.cihi.ca/mstrapp/asp/Main.aspx?Server=apmstxtprd_i&pr object=Quick%20Stats&uid=pce_pub_en&pwd=&evt=2048001&visualizationMode=0&documentID=C6F8B4144B03958E3AE3CAB5DD440EA7 on March 23, 2017. www.cihi.ca

Hospital discharge rates per 100,000 population

selected OECD countries, 2014

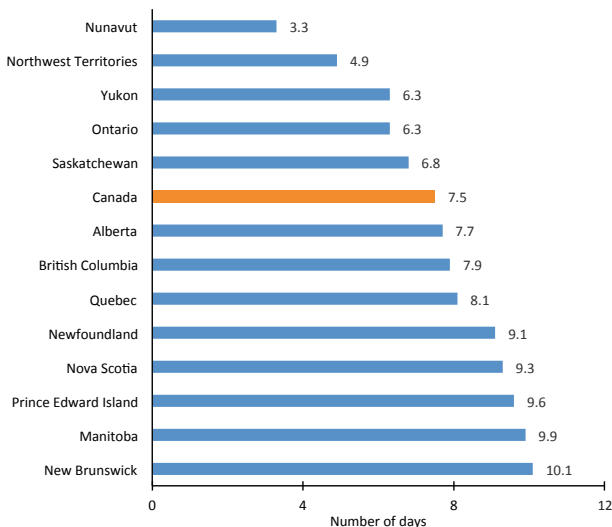


*2013 data

Source: Health care utilization. Organization for Economic Co-operation and Development. Accessed at http://stats.oecd.org/viewhtml.aspx?datasetcode=HEALTH_PROC&lang=en# on July 14, 2016. www.oecd.org

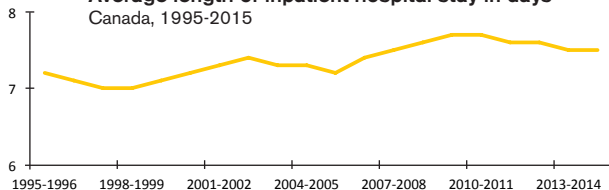
Average length of inpatient hospital stay

Canada, 2014-2015



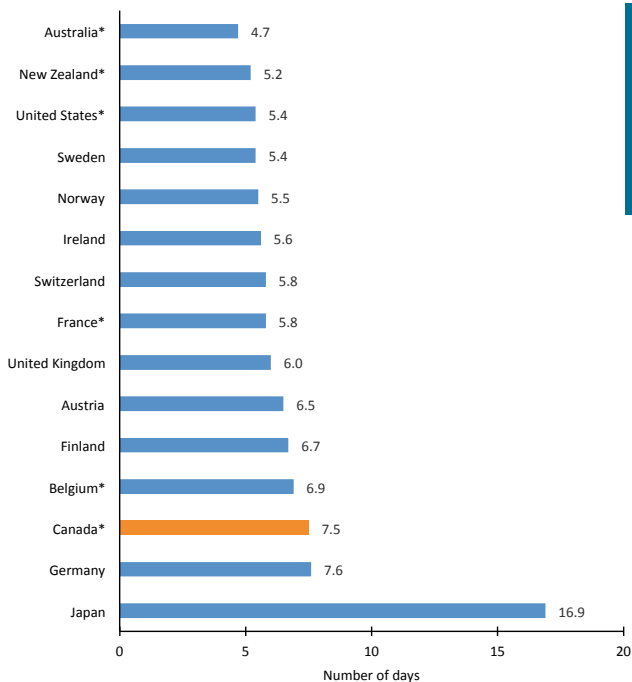
Average length of inpatient hospital stay in days

Canada, 1995-2015



Source: Inpatient hospitalizations: Volumes, length of stay, and standardized rates. Canadian Institute for Health Information. Accessed at https://apps.cihi.ca/mstrapp/asp/Main.aspx?Server=apmstxtprdi&project=Quick%20Stats&uid=pce_pub_en&pwd=&evt=2048001&visualizationMode=0&documentID=C6F8B4144B03958E3AE3CAB5DD440EA7 on July 14, 2016. www.cihi.ca

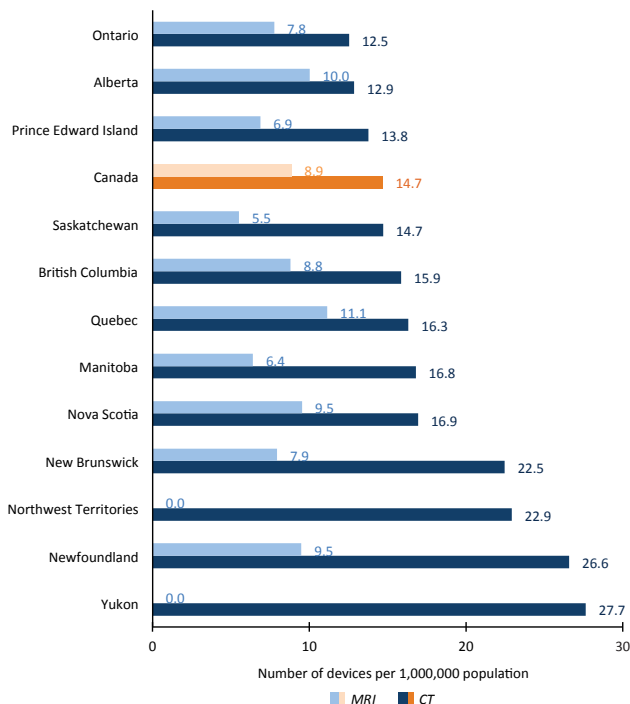
Average length of stay for acute care selected OECD countries, 2014



*2013 data

Source: Health care utilization. Organization for Economic Co-operation and Development. Accessed at http://stats.oecd.org/viewhtml.aspx?datasetcode=HEALTH_PROC&lang=en# on July 14, 2016.
www.oecd.org

Number of MRI and CT scanners per 1,000,000 population Canada, 2012



Note: MRI data was not available for Yukon and Northwest Territories. No data was available for Nunavut.

Source: Quickstats - Selected medical equipment in Canada. Canadian Institute for Health Information. Accessed at https://apps.cihi.ca/mstrapp/asp/Main.aspx?Server=apmstextprd_i&project=Quick%20Stats&uid=pce_pub_en&pwd=&evt=2048001&visualizationMode=0&documentID=50A7B0D5472B6AE40A9AE7AA062D42EC on March 23, 2017. www.cihi.ca

Number of MRI and CT scanners per 1,000,000 population

selected OECD countries, 2014

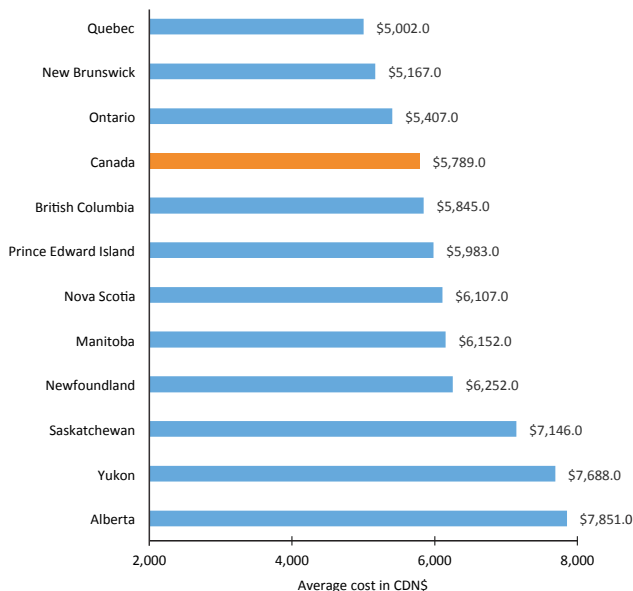


*2013 data

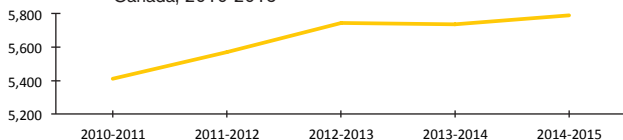
Source: Health equipment. Organization for Economic Co-operation and Development. Accessed at <https://data.oecd.org/healtheq/magnetic-resonance-imaging-mri-units.htm#indicator-chart> and <https://data.oecd.org/healtheq/computed-tomography-ct-scanners.htm#indicator-chart> on July 7, 2016. www.oecd.org

Average cost of standard hospital stay

Canada, 2015



Average cost of standard hospital stay in CDN\$ Canada, 2010-2015



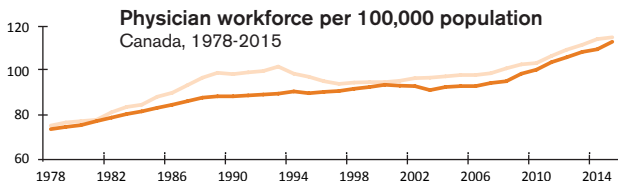
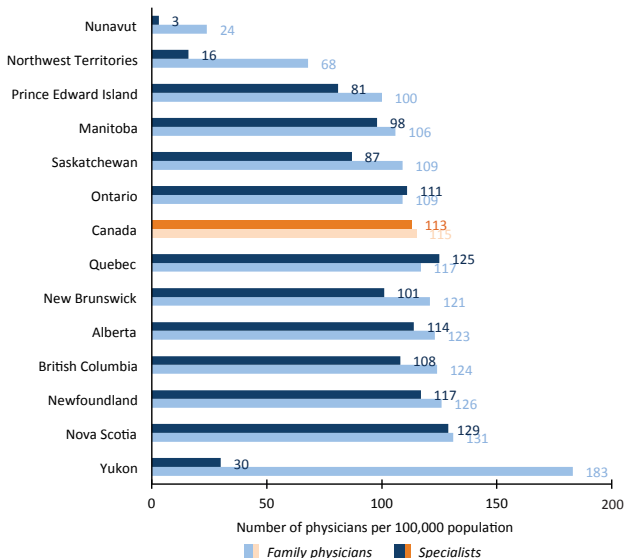
Source: Your health system: Cost of a standard hospital stay. Canadian Institute for Health Information. Accessed at <https://yourhealthsystem.cihi.ca/hsp/inbrief?lang=en#/indicators/015/cost-of-a-standard-hospital-stay-cshs/mapC1;mapLevel2;/> on February 2, 2017. www.cihi.ca

Physician Services



Physician workforce per 100,000 population

Canada, 2015

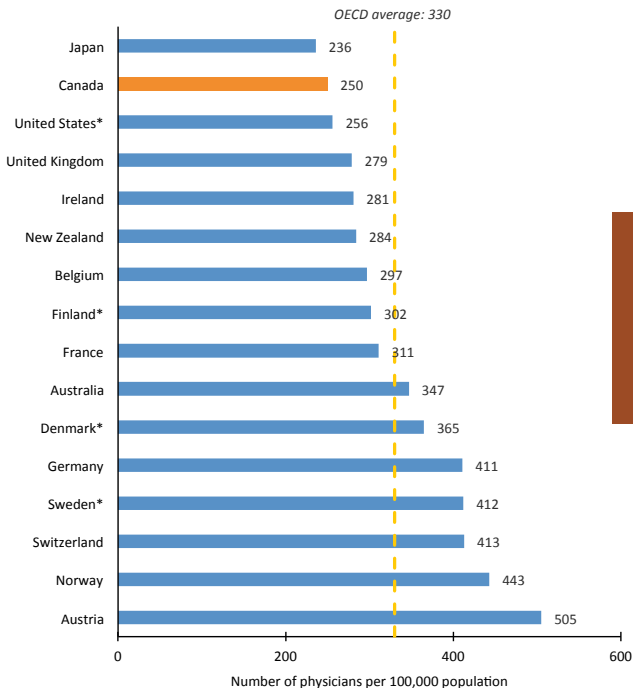


Note: CIHI includes "active physicians in clinical and non-clinical practice (e.g., research and academia) who have an MD degree and a valid mailing address"; it excludes "residents, physicians in the military, as well as semi-retired and retired physicians"

Source: Supply, distribution and migration of physicians in Canada, 2015. Canadian Institute for Health Information. Accessed at <https://secure.cihi.ca/estore/productFamily.htm?locale=en&pf=PFC3269> on March 23, 2017. www.cihi.ca

Physician workforce per 100,000 population

selected OECD countries, 2014

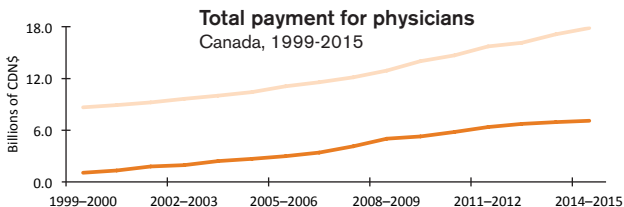
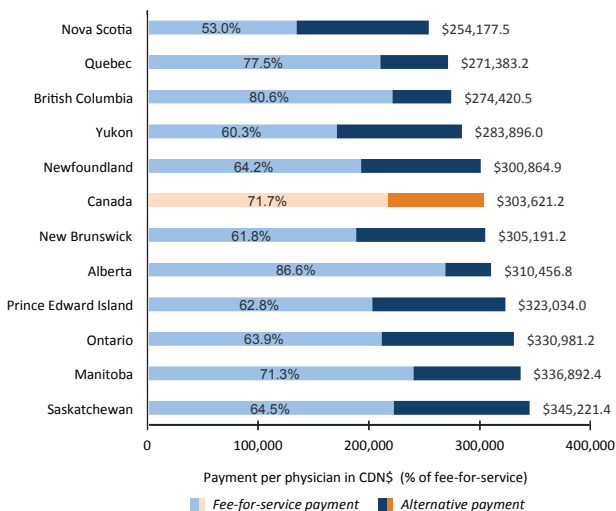


Note: Data collected on practicing physicians who "provide services directly to patients"; excludes "students who have not graduated; physicians working in administration, research and in other posts that exclude direct contact with patients; unemployed physicians and retired physicians"

*2013 data

Source: Health care resources: Physicians. Organization for Economic Co-operation and Development. Accessed at <http://stats.oecd.org/index.aspx?DataSetCode=SHA#> on July 7, 2016. www.oecd.org

Average gross payment per physician Canada, 2014-2015



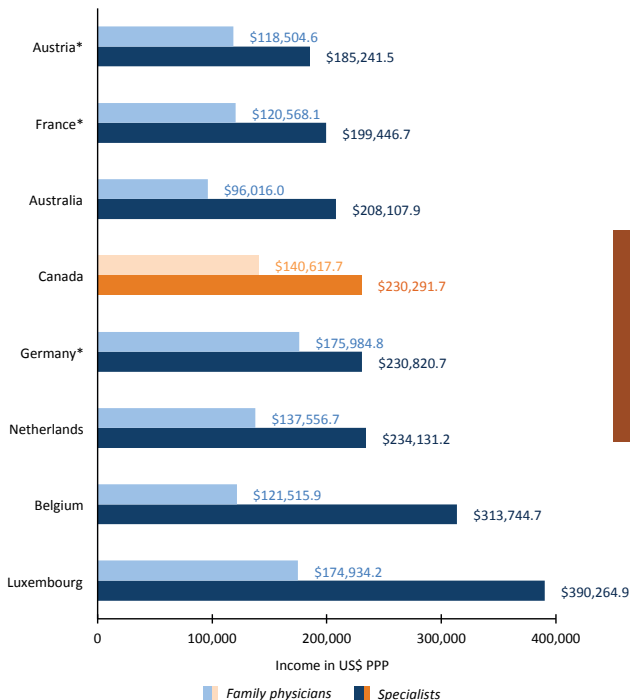
Note: Nunavut and Northwest Territories have not submitted data

Source: National Physician Database, 2013-2014. Canadian Institute for Health Information. Accessed at <https://secure.cihi.ca/estore/productFamily.htm?locale=en&pf=PFC3268> on March 23, 2017. www.cihi.ca

Supply, distribution and migration of physicians in Canada, 2015. Canadian Institute for Health Information. Accessed at <https://secure.cihi.ca/estore/productFamily.htm?locale=en&pf=PFC3269> on March 23, 2017. www.cihi.ca

Income of self-employed physicians

selected OECD countries, 2013



Note: OECD defines *self-employed physicians* as "physicians who are primarily non-salaried. That is, they are either self-employed, or operate independently, usually receiving (mainly) either capitation or fee-for-service reimbursement"

*2011 data

Source: Health care resources: Remuneration of health professionals. Organization for Economic Co-operation and Development. Accessed at http://stats.oecd.org/index.aspx?DataSetCode=HEALTH_STAT# on March 24, 2017. www.oecd.org

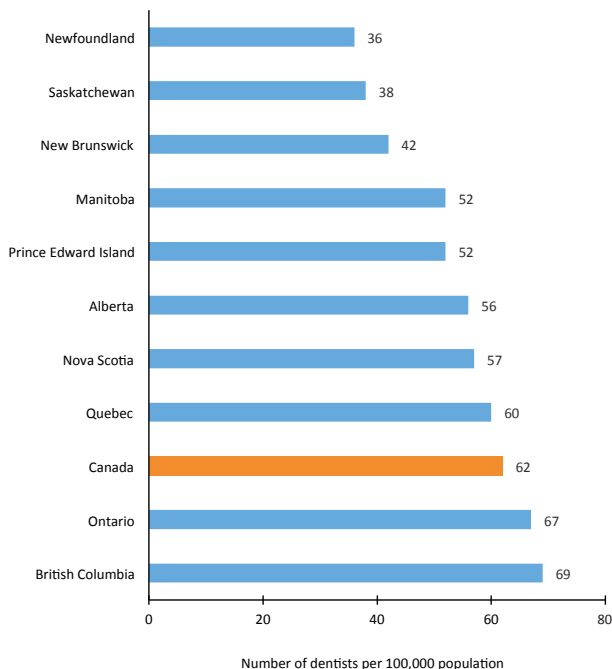
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Other Providers



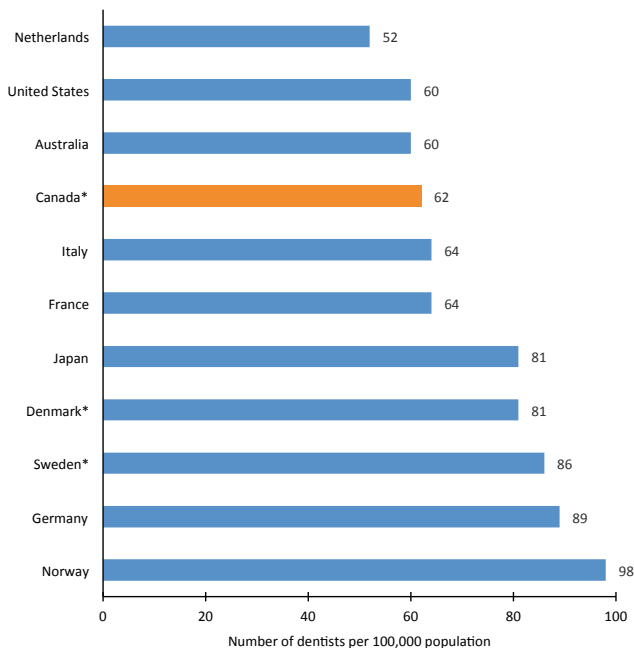
Dentist workforce per 100,000 population

Canada, 2013



Dentist workforce per 100,000 population

selected OECD countries, 2014



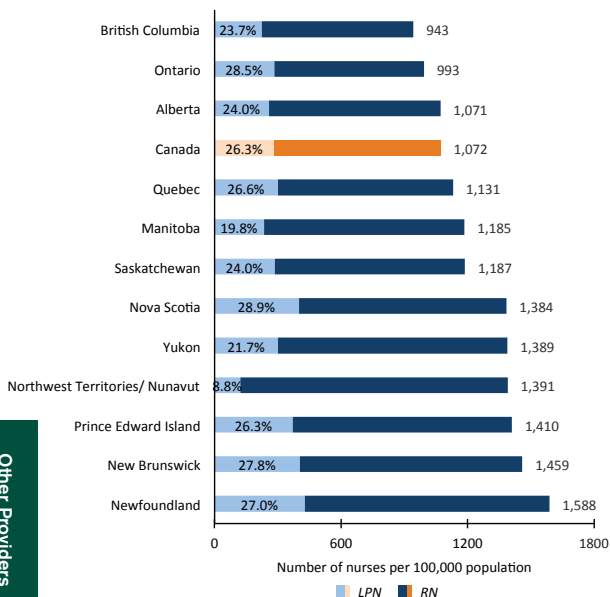
Other Providers

*2013 data

Source: Health care resources statistics. Organization for Economic Co-operation and Development. Accessed at http://stats.oecd.org/viewhtml.aspx?datasetcode=HEALTH_REAC&lang=en# on March 23, 2017. www.oecd.org

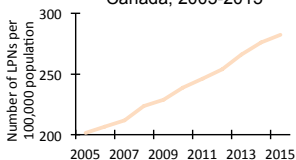
Regulated nurse workforce per 100,000 population

Canada, 2015

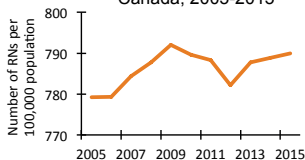


Other Providers

LPN workforce
Canada, 2005-2015



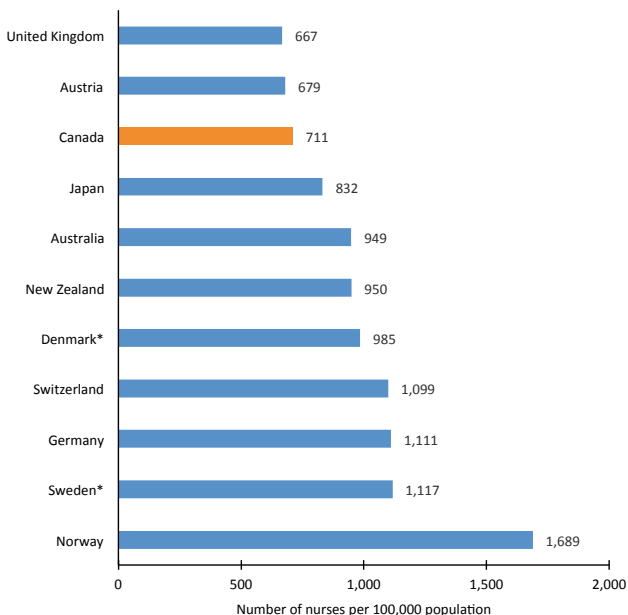
RN workforce
Canada, 2005-2015



Source: Regulated nurses, 2015. Canadian Institute for Health Information. Accessed at <https://secure.cihi.ca/estore/productFamily.htm?pf=PFC3152&lang=en&media=0> on July 7, 2016. www.cihi.ca

Professional nurse workforce per 100,000 population

selected OECD countries, 2014



Other Providers

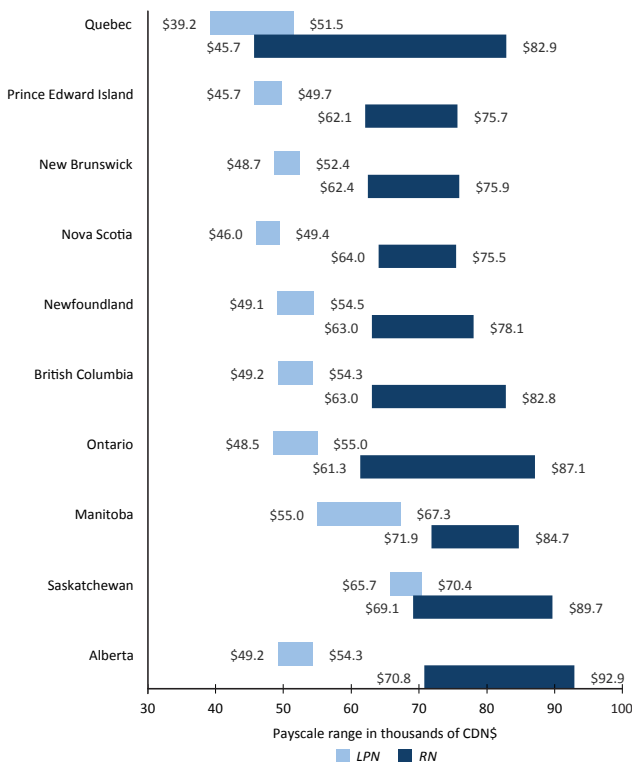
Note: OECD defines *professional nurse* as "nursing professionals assume responsibility for the planning and management of the care of patients, including the supervision of other health care workers, working autonomously or in teams with medical doctors and others in the practical application of preventive and curative measures." This excludes midwives, university lecturers, paramedical lecturers, and associate professional nurses (LPNs).

*2013 data

Source: Health care resources statistics. Organization for Economic Co-operation and Development. Accessed at http://stats.oecd.org/viewhtml.aspx?datasetcode=HEALTH_REAC&lang=en# on July 7, 2016. www.oecd.org

Annual payscale range for nurses

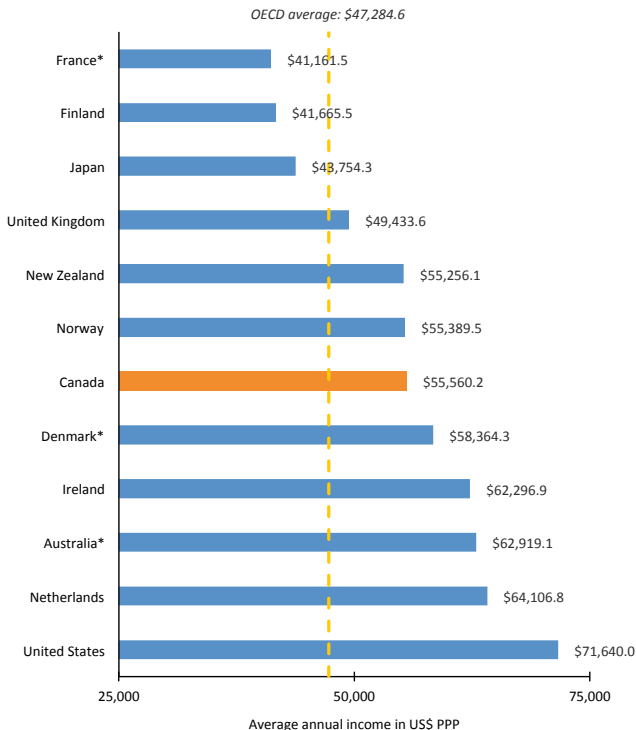
Canada, 2015



Source: Overview of key nursing contract provisions. Canadian Federation of Nurses Unions. Accessed at https://nursesunions.ca/sites/default/files/2015-10-31_contract_comparison.pdf on March 23, 2017. www.nursesunions.ca

Average annual income of hospital nurses

selected OECD countries, 2014



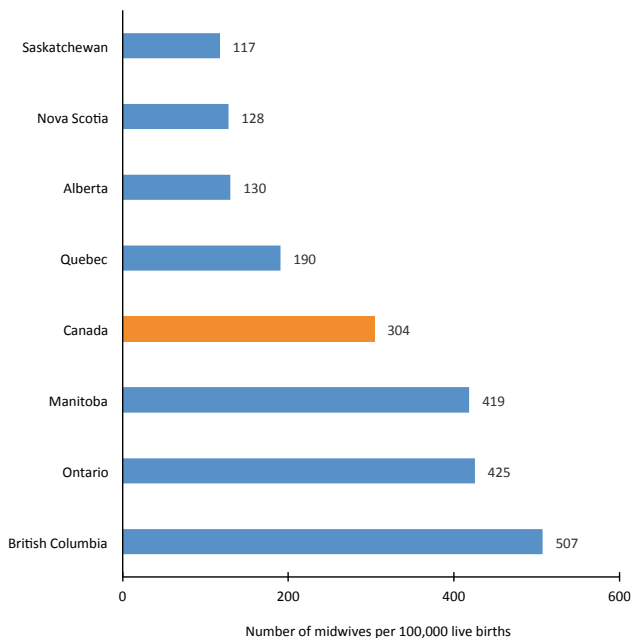
Note: Includes *certified/registered nurses actively practicing in public and private hospitals and who receive most of their income via a salary*; excludes nurses working without certification and part-time nurses

*2013 data

Source: Health care resources. Organization for Economic Co-operation and Development. Accessed at http://stats.oecd.org/viewhtml.aspx?datasetcode=HEALTH_REAC&lang=en# on July 7, 2016. www.oecd.org

Ratio of midwives to births

Canada, 2013-2014



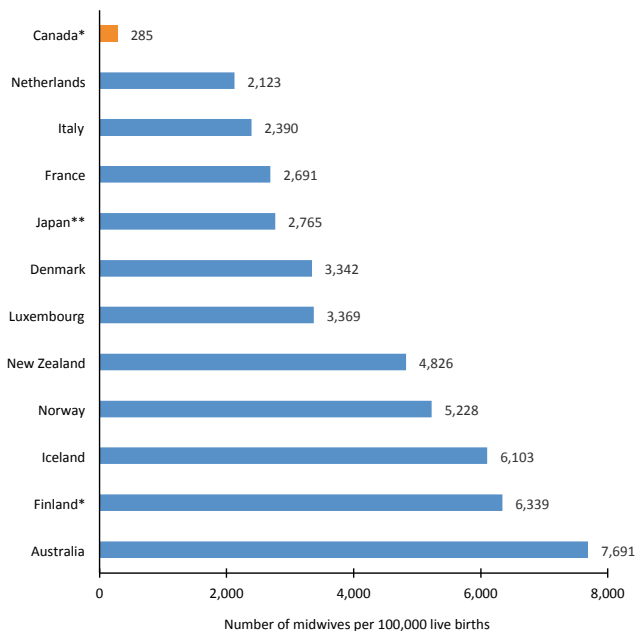
Note: Data was not available for Prince Edward Island, Newfoundland, New Brunswick, and territories

Source: Canada's health care providers: Provincial profiles, 2013. Canadian Institute for Health Information. Accessed at <https://secure.cihi.ca/estore/productFamily.htm?pf=PFC3045&lang=en&media=0> on March 23, 2017. www.cihi.ca

Births, estimates, by province and territory. Statistics Canada. Accessed at <http://www.statcan.gc.ca/tables-tableaux/sum-som/l01/cst01/demo04a-eng.htm> on March 23, 2017. www.statcan.gc.ca

Ratio of midwives to births

selected OECD countries, 2013



Other Providers

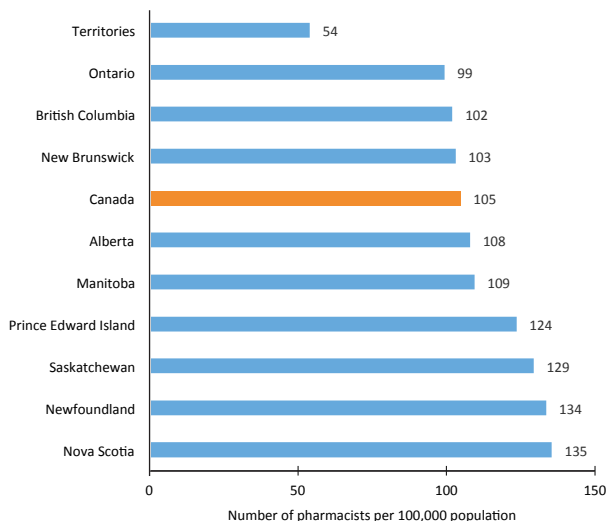
*2012 data

**2010 data

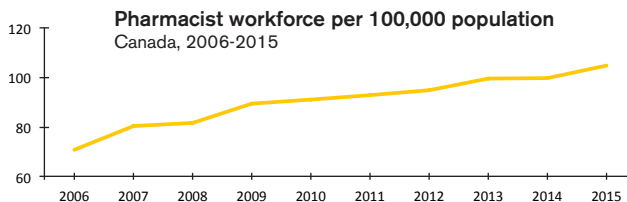
Source: Health care resources statistics. Organization for Economic Co-operation and Development. Accessed at http://stats.oecd.org/viewhtml.aspx?datasetcode=HEALTH_REAC&lang=en# on March 23, 2017. www.oecd.org

Pharmacist workforce per 100,000 population

Canada, 2015



Other Providers

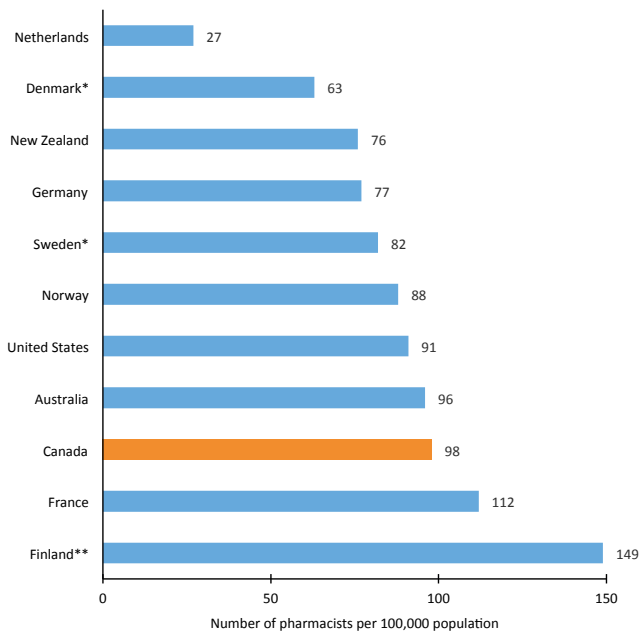


Note: Data was not available for Quebec

Source: Pharmacists, 2015, Canadian Institute for Health Information. Accessed at <https://secure.cihi.ca/estore/productFamily.htm?pf=PFC3363&lang=en&media=0> on March 23, 2017. www.cihi.ca

Pharmacist workforce per 100,000 population

selected OECD countries, 2014



Other Providers

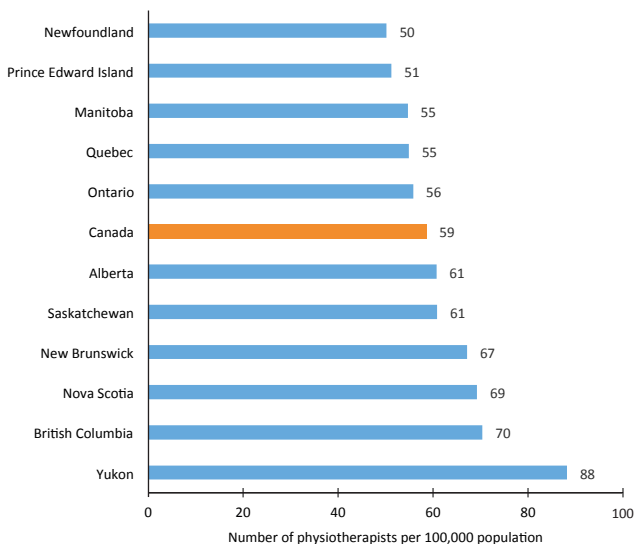
*2013 data

**2012 data

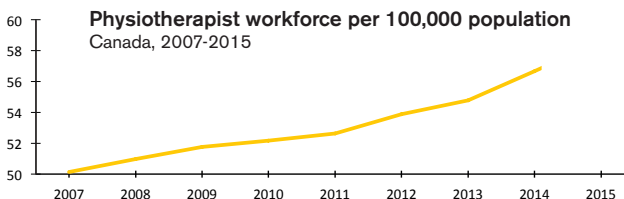
Source: Health care resources statistics. Organization for Economic Co-operation and Development. Accessed at http://stats.oecd.org/viewhtml.aspx?datasetcode=HEALTH_REAC&lang=en# on July 14, 2016. www.oecd.org

Physiotherapist workforce per 100,000 population

Canada, 2015



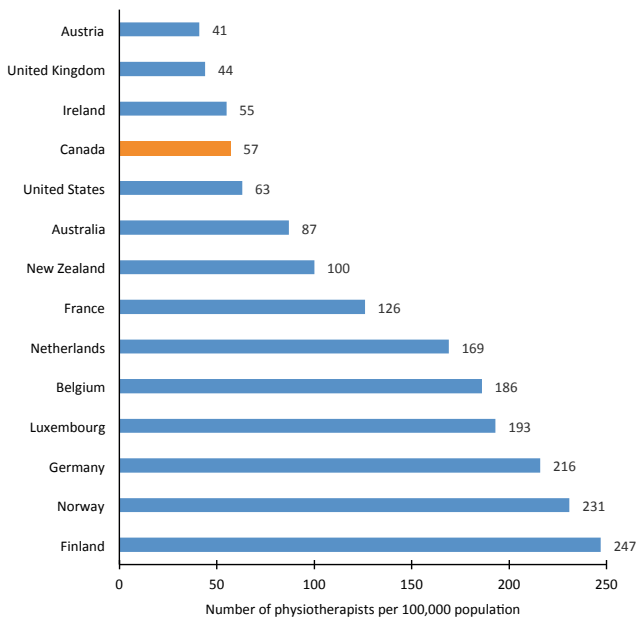
Other Providers



Source: Physiotherapists, 2015, Canadian Institute for Health Information. Accessed at [https://www.cihi.ca/en/access-data-reports/results?f\[0\]=field_primary_theme%3A2047](https://www.cihi.ca/en/access-data-reports/results?f[0]=field_primary_theme%3A2047) on March 23, 2017. www.cihi.ca

Physiotherapist workforce per 100,000 population

selected OECD countries, 2014

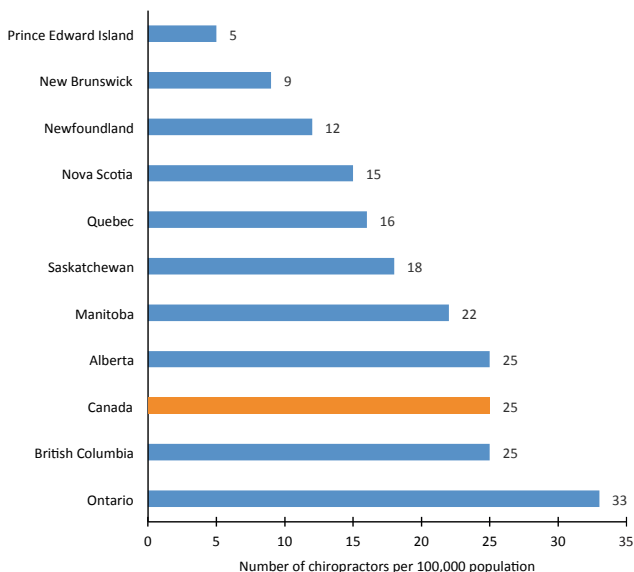


Other Providers

Source: Health care resources statistics. Organization for Economic Co-operation and Development. Accessed at http://stats.oecd.org/viewhtml.aspx?datasetcode=HEALTH_REAC&lang=en# on July 7, 2016. www.oecd.org

Chiropractor workforce per 100,000 population

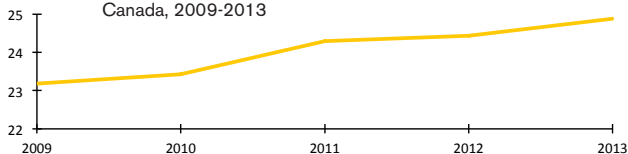
Canada, 2013



Other Providers

Chiropractor workforce per 100,000 population

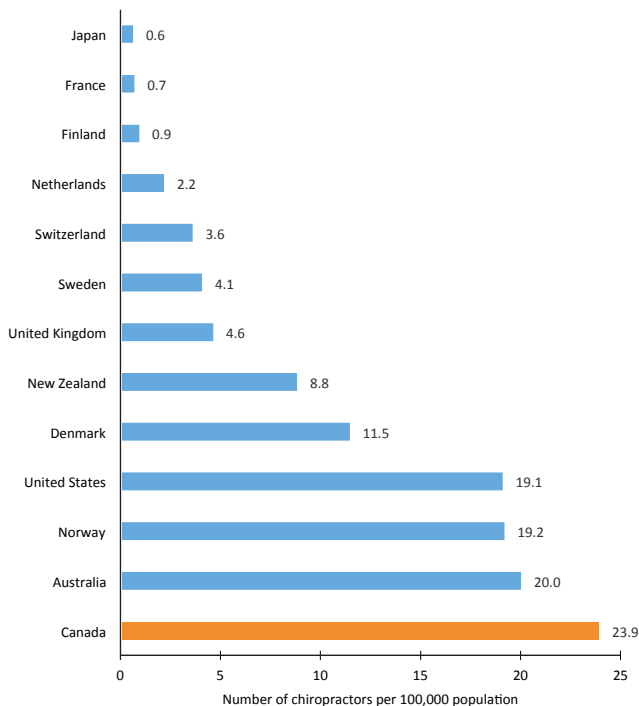
Canada, 2009-2013



Source: Canada's health care providers: Provincial profiles, 2013. Canadian Institute for Health Information. Accessed at <https://secure.cihi.ca/estore/productFamily.htm?locale=en&pf=PFC3045> on March 23, 2017. www.cihi.ca

Chiropractor workforce per 100,000 population

selected OECD countries, 2015



Source: Global statistics - Chiropractor statistics. Chiropractic Diplomatic Corp. Accessed at <http://www.chiropracticdiplomatic.com/global-statistics-page/> on March 23, 2017. www.chiropracticdiplomatic.com

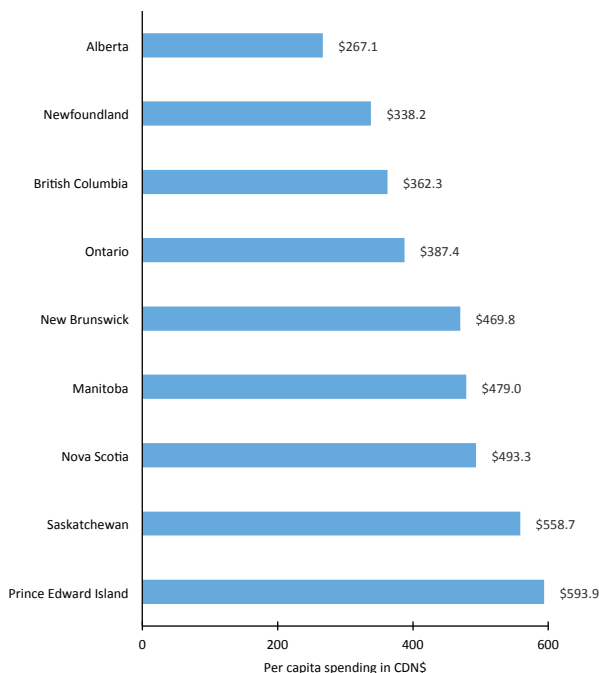
World population prospects, the 2015 revision. United Nations. Accessed at <https://esa.un.org/unpd/wpp/Download/Standard/Population/> on March 24, 2017. [www.esa.un.org](https://esa.un.org)

Continuing Care and Home Care



Expenditure on nursing homes per capita

Canada, 2013



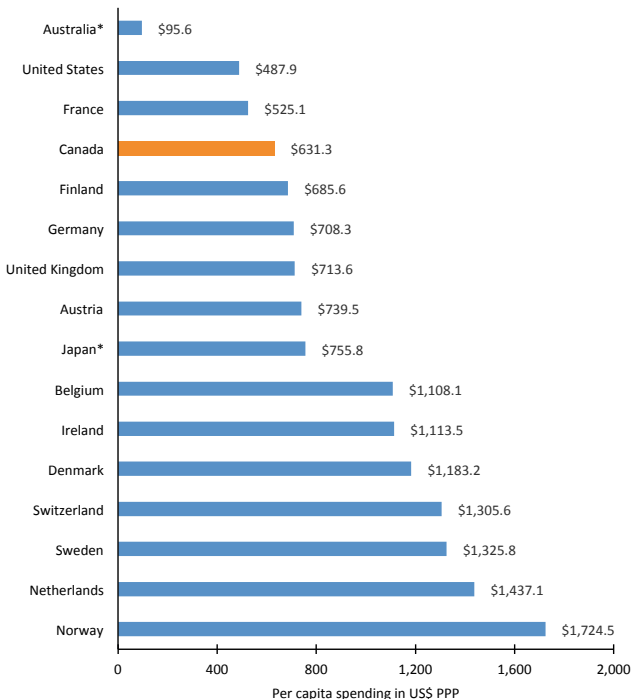
Note: Data was not available for Northwest Territories, Nunavut, and Quebec. *Nursing homes* are defined as "long-term care facilities" designated for people who "do not need to be in hospital but who do need access to 24 hours nursing care."

Source: Residential long-term care financial data tables 2013. Canadian Institute for Health Information. Accessed at <https://secure.cihi.ca/estore/productFamily.htm?locale=en&pf=PFC2740> on March 23, 2017. www.cihi.ca

National health expenditure trends, 1975-2015. Canadian Institute for Health Information. Accessed at <https://www.cihi.ca/en/spending-and-health-workforce/spending/national-health-expenditure-trends> on March 23, 2017. www.cihi.ca

Expenditure on long-term nursing care per capita

selected OECD countries, 2014



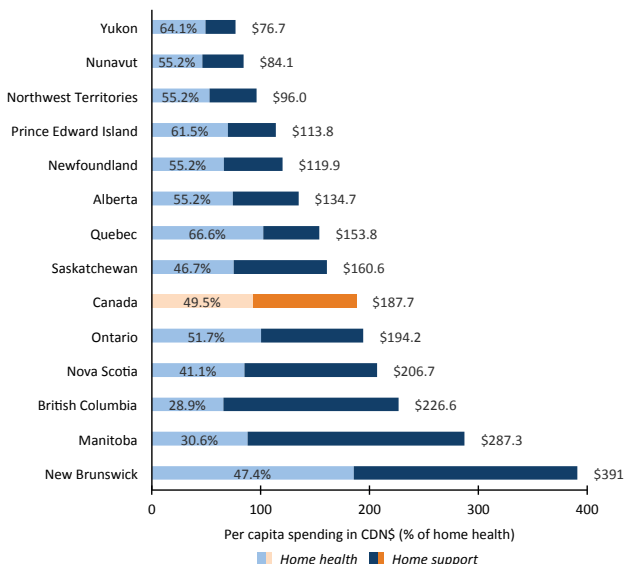
Note: Results are based on health care services expenditures and do not include social services. *Long-term nursing care* "comprises nursing care delivered to in-patients who need assistance on a continuing basis due to chronic impairments and a reduced degree of independence and activity of daily living. It is provided in institutions or community facilities."

*2013 data

Source: Health care expenditure and financing. Organization for Economic Co-operation and Development. Accessed at <http://stats.oecd.org/viewhtml.aspx?datasetcode=SHA&lang=en#> on July 14, 2016. www.oecd.org

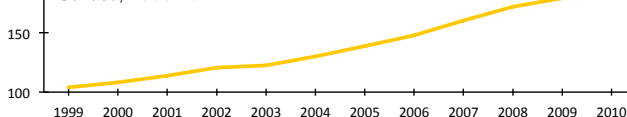
Public expenditure on home care per capita

Canada, 2010



Public health expenditure on home care per capita in CDN\$

Canada, 1999-2010

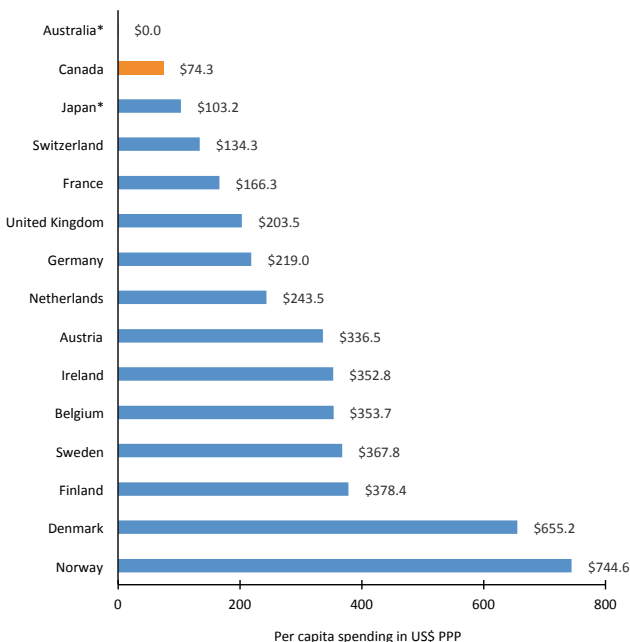


Source: Home and community care in Canada: An economic footprint. The Conference Board of Canada. Accessed at <http://www.conferenceboard.ca/e-library/abstract.aspx?did=4841> on March 23, 2017. www.conferenceboard.ca

National health expenditure trends, 1975-2016. Canadian Institute for Health Information. Accessed at <https://www.cihi.ca/en/spending-and-health-workforce/spending/national-health-expenditure-trends> on March 23, 2017. www.cihi.ca

Public expenditure on long-term home care per capita

selected OECD countries, 2014

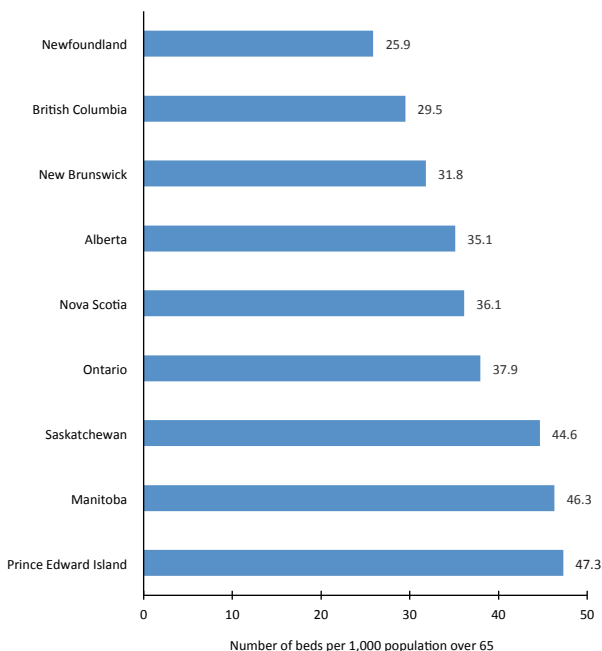


*2013 data

Note: Results are based on health care services expenditures and do not include social services and drug expenses

Source: Health care expenditure and financing. Organization for Economic Co-operation and Development. Accessed at <http://stats.oecd.org/viewhtml.aspx?datasetcode=SHA&lang=en#> on July 14, 2016. www.oecd.org

Number of beds in nursing homes per 1,000 population over 65 years old Canada, 2013

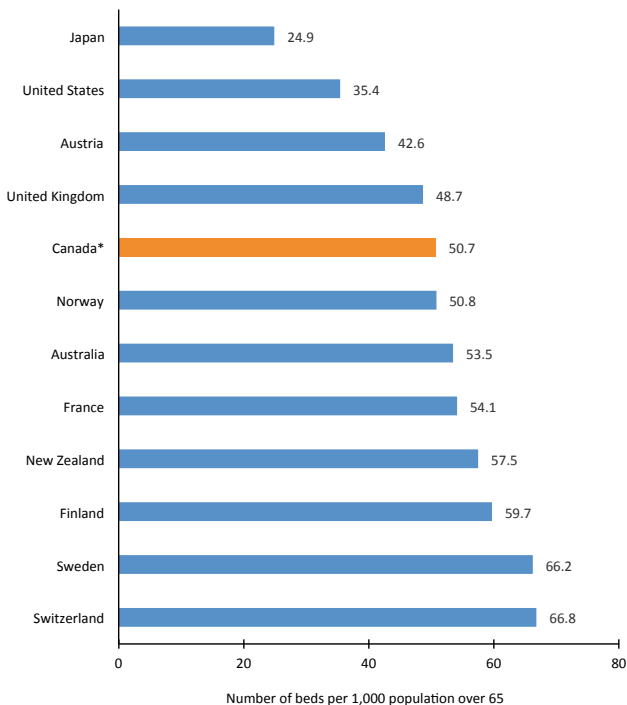


Note: Data was not available for Northwest Territories, Nunavut, and Quebec. Data was based on beds staffed and in operation.

Source: Residential long-term care financial data tables 2013. Canadian Institute for Health Information. Accessed at <https://secure.cihi.ca/estore/productFamily.htm?locale=en&pf=PFC2740> on March 23, 2017. www.cihi.ca

Table 051-000: Estimates of population, by age group and sex for July 1, Canada, provinces and territories. Statistics Canada. Accessed at <http://www20.statcan.gc.ca/tables-tableaux/cansim/csv/00510001-eng.zip> on March 24, 2017. www.statcan.gc.ca

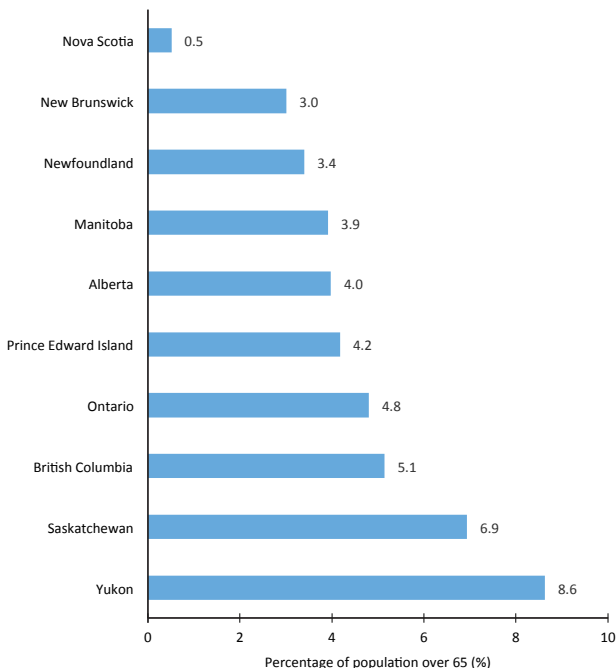
Number of beds in residential long-term care facilities per 1,000 population over 65 years old selected OECD countries, 2014



*2012 data

Source: Long-term care resources and utilization. Organization for Economic Co-operation and Development. Accessed at http://stats.oecd.org/viewhtml.aspx?datasetcode=HEALTH_LTCR&lang=en# on July 7, 2016. www.oecd.org

Elderly users of residential care facilities as a percentage of the population over 65 years old Canada, 2015

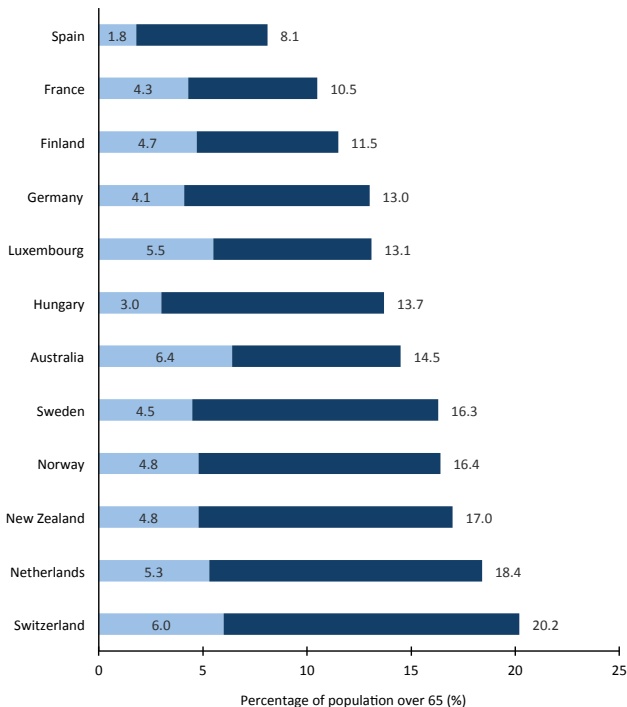


Note: Data not available for Quebec, Northwest Territories, and Nunavut

Source: CCRS quick stats, 2015-2016. Canadian Institute for Health Information. Accessed at <https://secure.cihi.ca/estore/productFamily.htm?locale=en&pf=PFC2740> on November 17, 2015. www.cihi.ca

Table 051-0001: Estimates of population, by age group and sex for July 1, Canada, provinces and territories. Statistics Canada. Accessed at <http://www20.statcan.gc.ca/tables-tableaux/cansim/csv/00510001-eng.zip> on March 24, 2017. www.statcan.gc.ca

Elderly users of long-term care facilities as a percentage of the population over 65 years old selected OECD countries, 2014



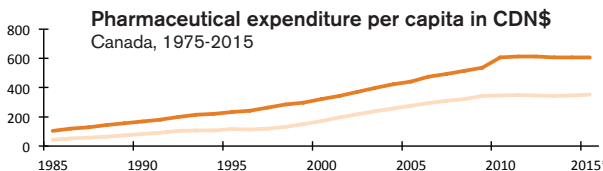
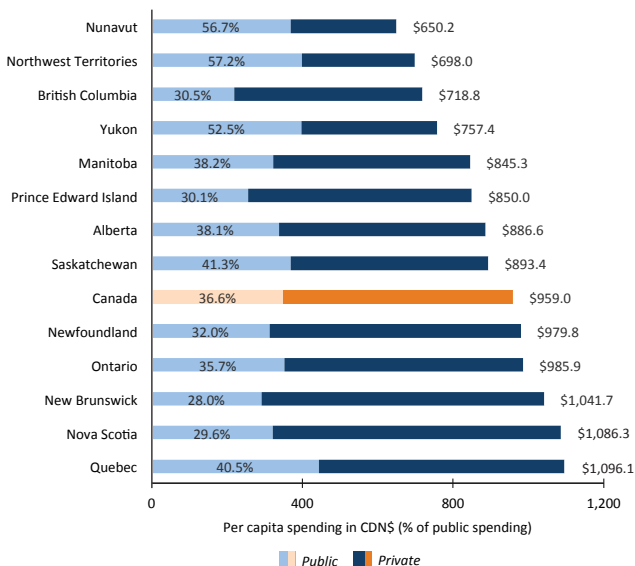
Source: Long-term care resources and utilization. Organization for Economic Co-operation and Development. Accessed at http://stats.oecd.org/viewhtml.aspx?datasetcode=HEALTH_LTCR&lang=en# on July 22, 2016. www.oecd.org

Pharmaceuticals



Pharmaceutical expenditure per capita

Canada, 2015

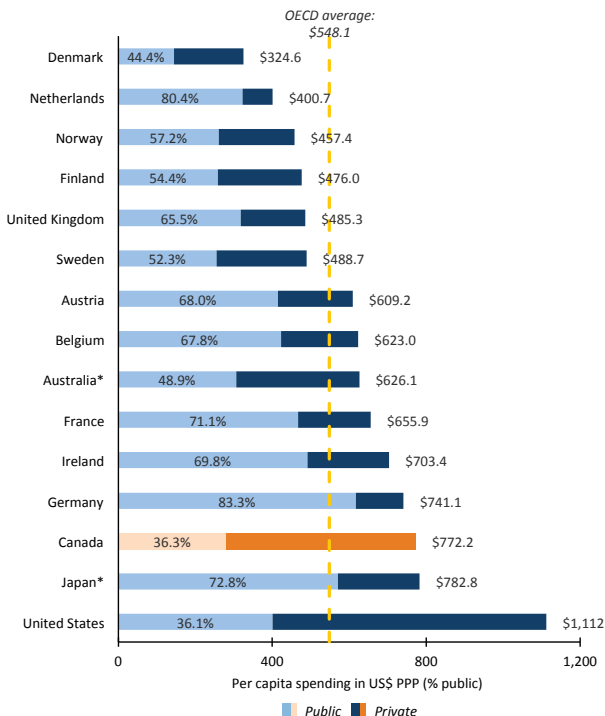


*2014 and 2015 are forecast data

Source: National health expenditure trends, 1975-2015. Canadian Institute for Health Information. Accessed at <https://www.cihi.ca/en/spending-and-health-workforce/spending/national-health-expenditure-trends> on October 29, 2015. www.cihi.ca

Pharmaceutical expenditure per capita

selected OECD countries, 2014

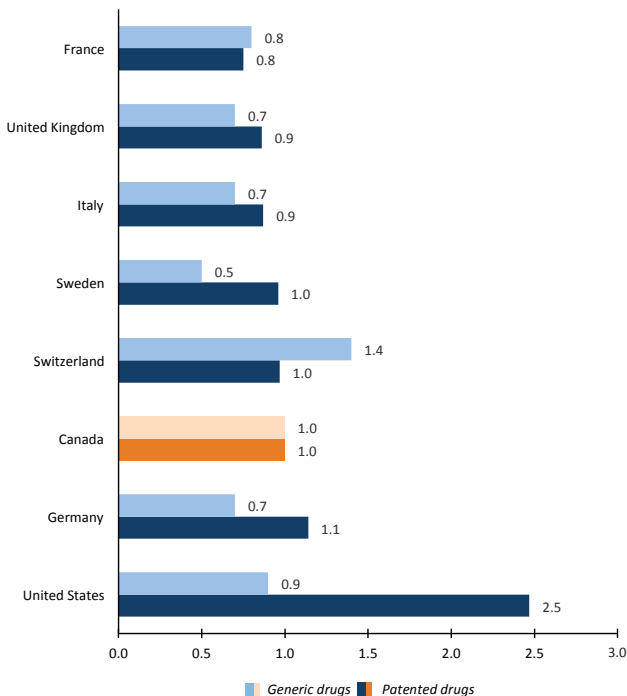


*2013 data

Source: Health expenditure and financing. Organization for Economic Co-operation and Development. Accessed at <http://stats.oecd.org/Index.aspx?DataSetCode=SHA#> on July 7, 2016. www.oecd.org

Average foreign-to-Canadian price ratio for drugs

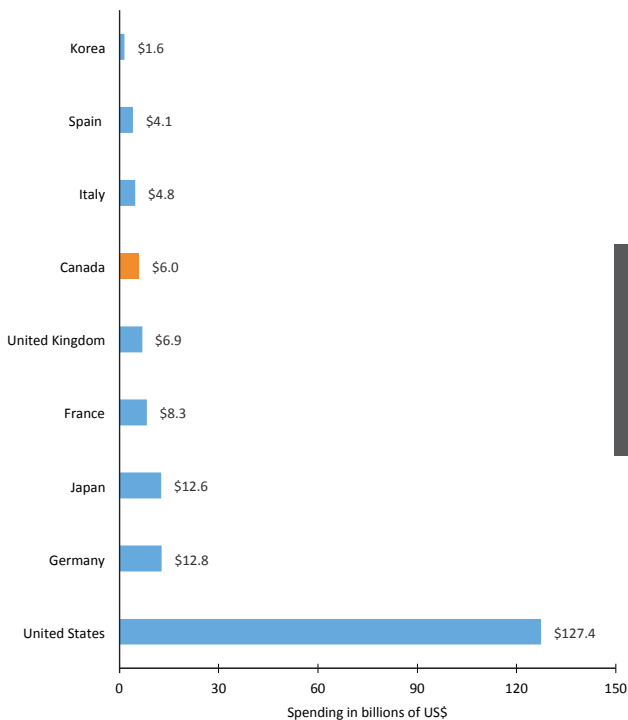
selected OECD countries, 2014



Source: Annual report, 2014. Patented Medicine Prices Review Board. Accessed at http://www.pmprb-cepmb.gc.ca/CMFiles/Publications/Annual%20Reports/2014/2014_Annual_Report_Final_EN.pdf on July 14, 2016. www.pmprb-cepmb.gc.ca

Generic drugs in Canada, 2013. Patented Medicine Prices Review Board. Accessed at http://www.pmprb-cepmb.gc.ca/CMFiles/NPDUIS/NPDUIS_Generics_360_Report_E.pdf on July 7, 2016. www.pmprb-cepmb.gc.ca

Expenditure on biologic drugs selected OECD countries, 2015

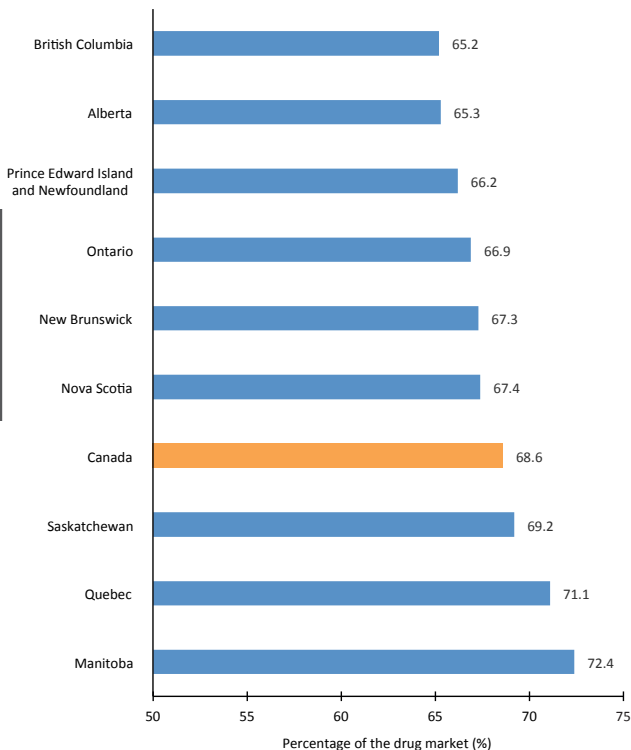


Source: The international biosimilar experience: Lessons for Alberta - 2016 Institute of Health Economics Alberta Biosimilar Forum. Institute of Health Economics. Accessed at <http://www.ihe.ca/publications/the-international-biosimilars-experience-lessons-for-alberta> on February 2, 2017. www.ihe.ca

Generic share of the prescription drug market

Canada, 2015

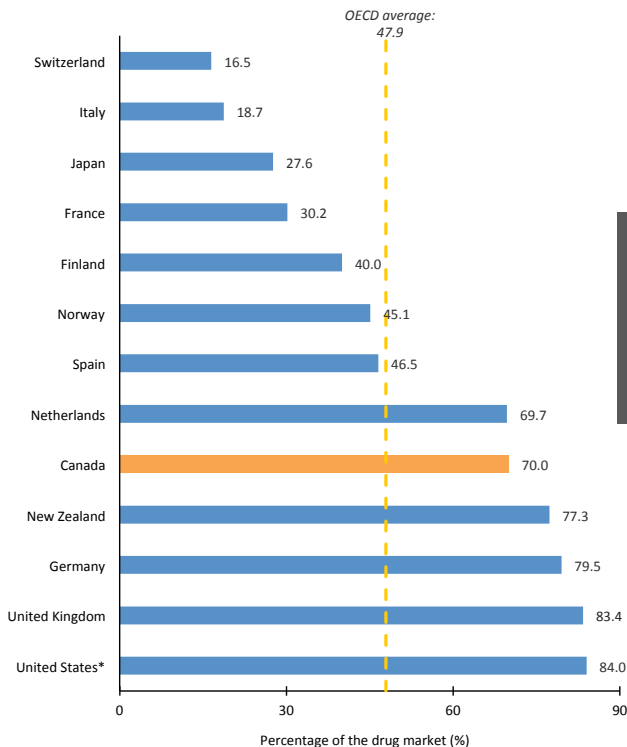
Pharmaceuticals



Source: Prescription drug market, 2015. Canadian Generic Pharmaceutical Association.
Accessed at <http://canadiangenerics.ca/resources/reports-submissions/> on March 23, 2017.
www.canadiangenerics.ca

Generic share of the pharmaceutical market

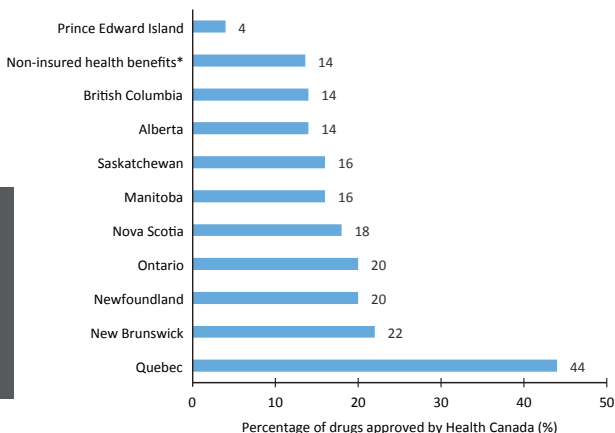
selected OECD countries, 2013



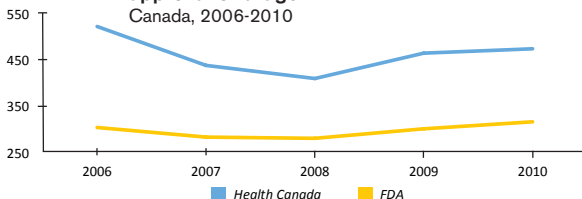
*2012 data

Source: Health at glance, 2015. Organization for Economic Co-operation and Development. Accessed at http://www.oecd-ilibrary.org/social-issues-migration-health/health-at-a-glance_19991312 on March 24, 2017. www.oecd.org

Percentage of drugs approved by Health Canada listed for public insurance coverage Canada, 2013



Time in days for regulatory and marketing approval of drugs Canada, 2006-2010



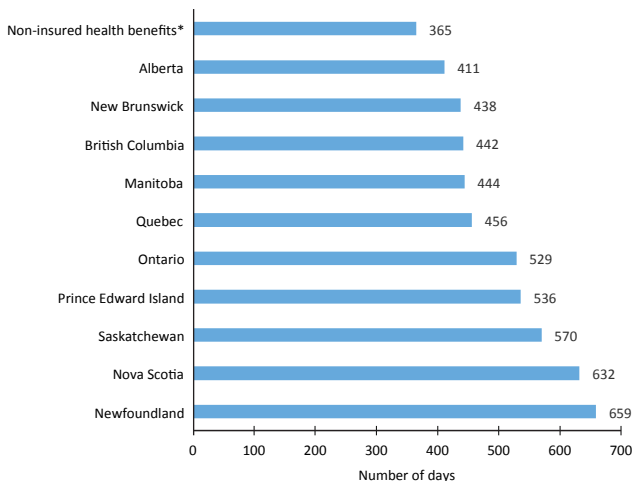
*2011 data

Source: Coverage for new medicines in Canada's public drug plans, 2015. Canadian Health Policy. Accessed at <http://www.canadianhealthpolicy.com/products/coverage-for-new-medicines-in-canada--s-public-drug-plans-2015-.html> on January 14, 2016. www.canadianhealthpolicy.com

Access delayed, access denied 2012 - waiting for new medicines in Canada. Fraser Institute. Accessed at <https://www.fraserinstitute.org/sites/default/files/access-delayed-access-denied-2012.pdf> on January 15, 2016. www.fraserinstitute.org

Time in days for drugs to be listed in public drug plans after Health Canada's approval

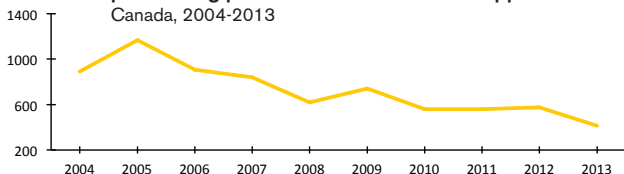
Canada, 2013



Pharmaceuticals

Average time in days for drugs to be listed in public drug plans after Health Canada approval

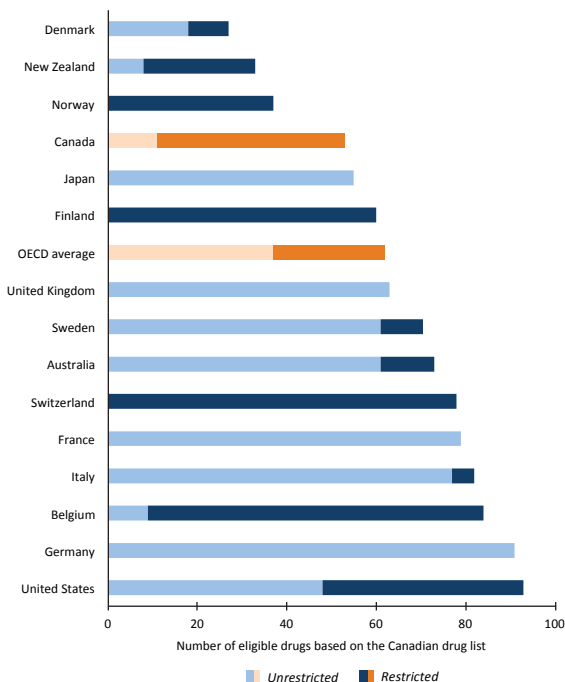
Canada, 2004-2013



*2011 data

Source: Coverage for new medicines in Canada's public drug plans, 2015. Canadian Health Policy. Accessed at <http://www.canadianhealthpolicy.com/products/coverage-for-new-medicines-in-canada---s-public-drug-plans--2015-.html> on January 14, 2016. www.canadianhealthpolicy.com

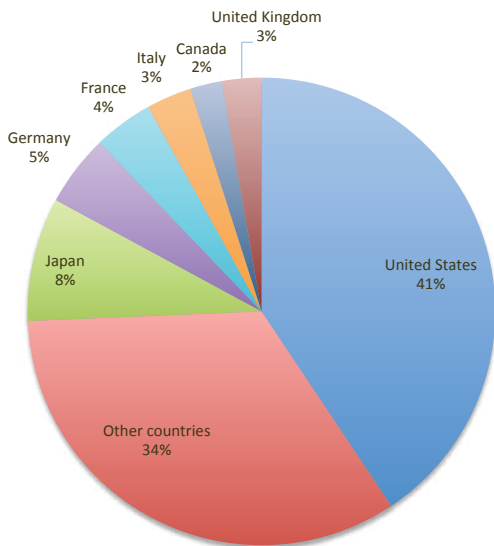
International positive reimbursement of eligible drugs based on a Canadian drug list 2011-2012



Note: The Canadian drug list was set with 153 drugs for 175 indications reviewed by Canada's Common Drug Review, and an additional 51 drugs for 82 indications reviewed by Jol Oncology Drug Review

Source: The Rx&D international report on access to medicines, 2011-2012. Wyatt Health and Canada's Research-Based Pharmaceutical Companies. Accessed at <http://www.wyatthealth.com/wp-content/uploads/IRAM/iram-2011-2012-English.pdf> on January 21, 2016. www.wyatthealth.com

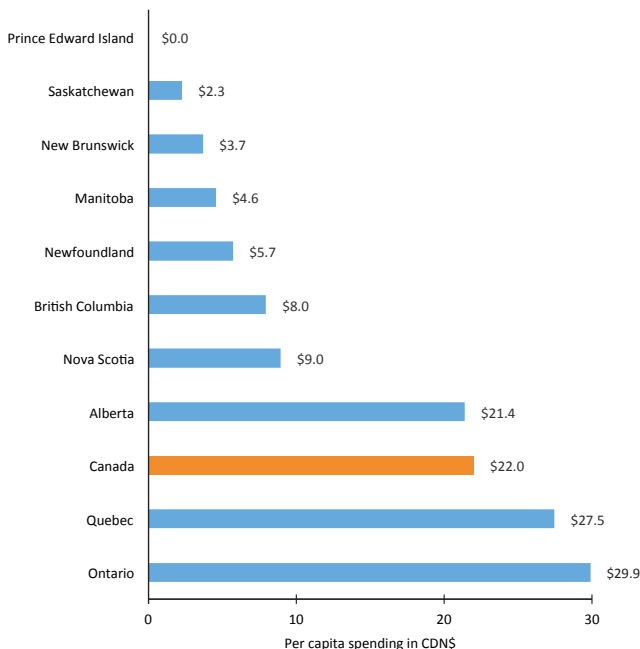
Worldwide distribution of drug sales 2014



Note: Part of the data was from the MIDAS IMS database

Source: Annual report, 2014. Patented Medicine Prices Review Board. Accessed at http://www.pmprb-cepmb.gc.ca/CMFiles/Publications/Annual%20Reports/2014/2014_Annual_Report_Final_EN.pdf on July 7, 2016. www.pmprb-cepmb.gc.ca

Expenditure on pharmaceutical research and development per capita Canada, 2015



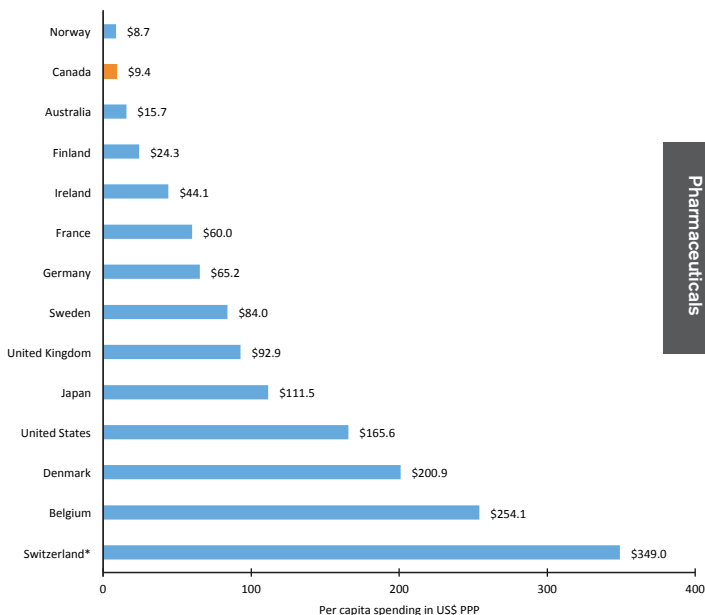
Note: Expenditure on pharmaceutical research and development in the territories was \$0.0

Source: Annual report, 2015. Patented Medicine Prices Review Board. Accessed at <http://www.pmprb-cepmb.gc.ca/view.asp?ccid=1273> on March 23, 2017. www.pmprb-cepmb.gc.ca

National health expenditure trends, 1975-2016. Canadian Institute for Health Information. Accessed at <https://www.cihi.ca/en/national-health-expenditure-trends> on March 23, 2017. www.cihi.ca

Business expenditure on research and development in pharmaceutical industries per capita

selected OECD countries, 2013



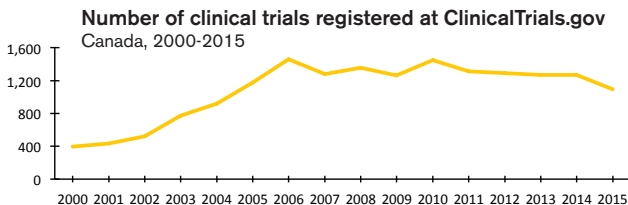
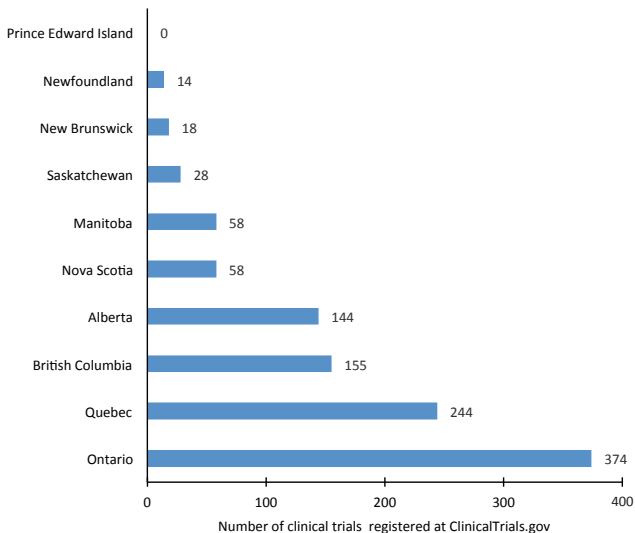
Pharmaceuticals

*2012 data

Source: Main science and technology indicators. Organization for Economic Co-operation and Development. Accessed at http://www.oecd-ilibrary.org/science-and-technology/data/oecd-science-technology-and-r-d-statistics/main-science-and-technology-indicators_data-00182-en on April 20, 2017. www.oecd.org

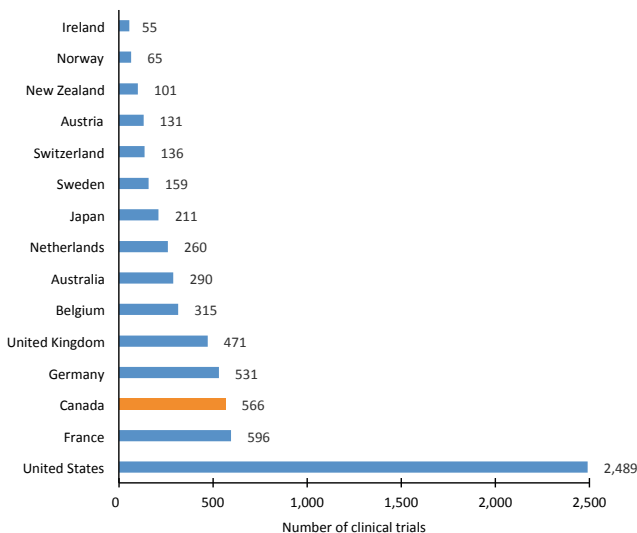
Population and vital statistics. Organization for Economic Co-operation and Development. Accessed at http://stats.oecd.org/viewhtml.aspx?datasetcode=ALFS_POP_VITAL&lang=en# on July 7, 2016. www.oecd.org

Number of clinical trials registered with ClinicalTrials.gov started in 2015 Canada

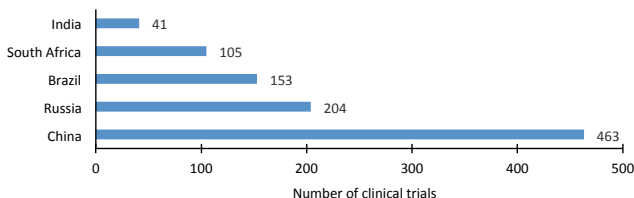


Source: Studies on map, Clinical Trials. Accessed at <https://clinicaltrials.gov/ct2/search/map> on June 24, 2016. www.clinicaltrials.gov

Number of clinical trials started in 2015 selected OECD countries



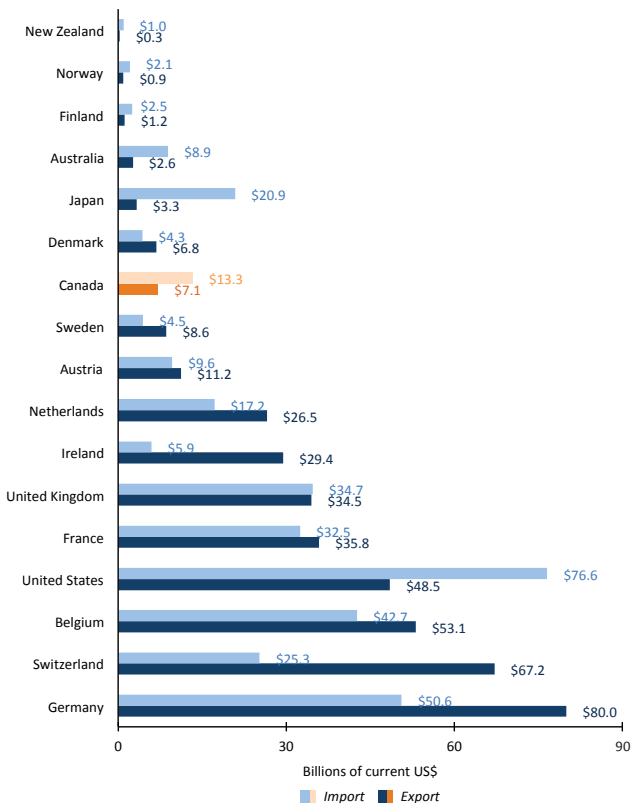
Number of clinical trials started in 2015 BRICS countries



Source: Studies on map. Clinical Trials. Accessed at <https://clinicaltrials.gov/ct2/search/map> on June 24, 2016. www.clinicaltrials.gov

International trade of pharmaceutical products

selected OECD countries, 2014



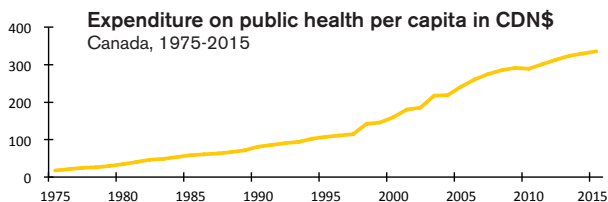
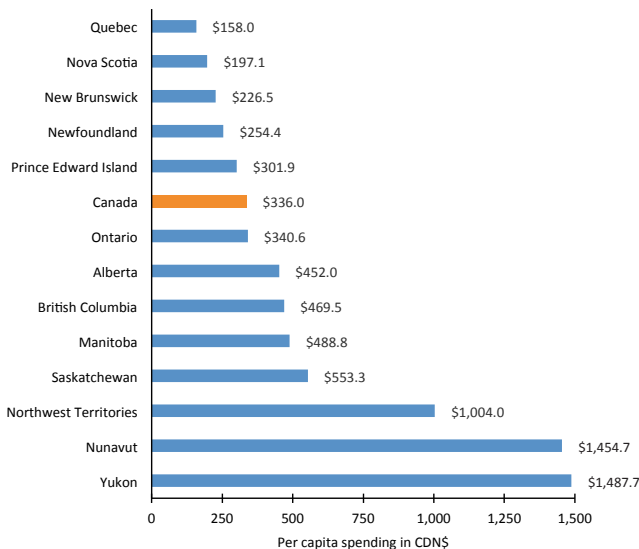
Source: International trade by commodity statistics. Organization for Economic Co-operation and Development. Accessed from a licensed version of the database on June 24, 2016. www.oecd.org

Public Health



Expenditure on public health per capita

Canada, 2015

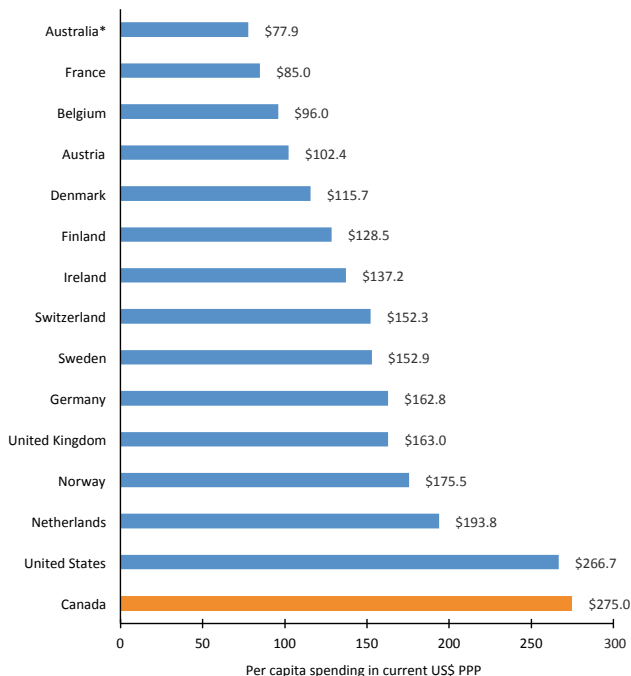


*Forecast data

Source: National health expenditure trends, 1975-2015. Canadian Institute for Health Information. Accessed at https://www.cihi.ca/sites/default/files/document/nhex_trends_narrative_report_2015_en.pdf on July 23, 2016. www.cihi.ca

Expenditure on prevention and public health per capita

selected OECD countries, 2014

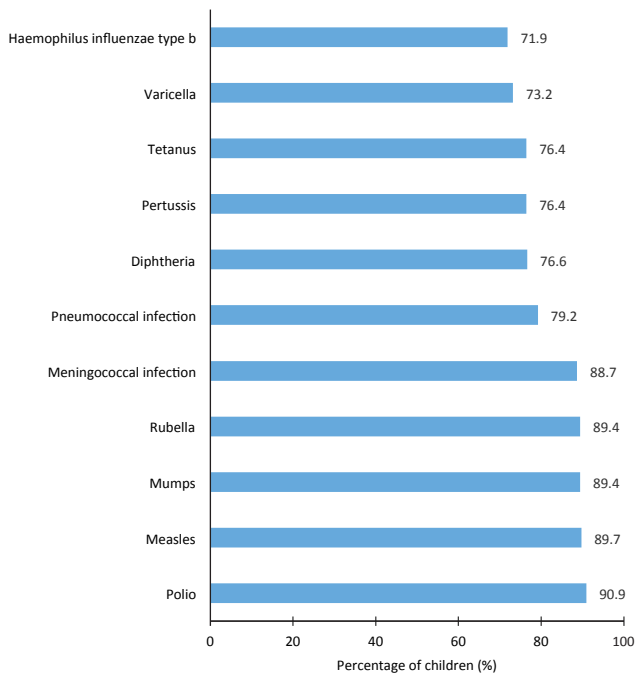


*2013 data

Source: OECD stats - Health expenditure and financing. Organization for Economic Co-operation and Development. Accessed at <http://stats.oecd.org/viewhtml.aspx?datasetcode=SHA&lang=en#> on July 7, 2016. www.oecd.org

Childhood immunization coverage

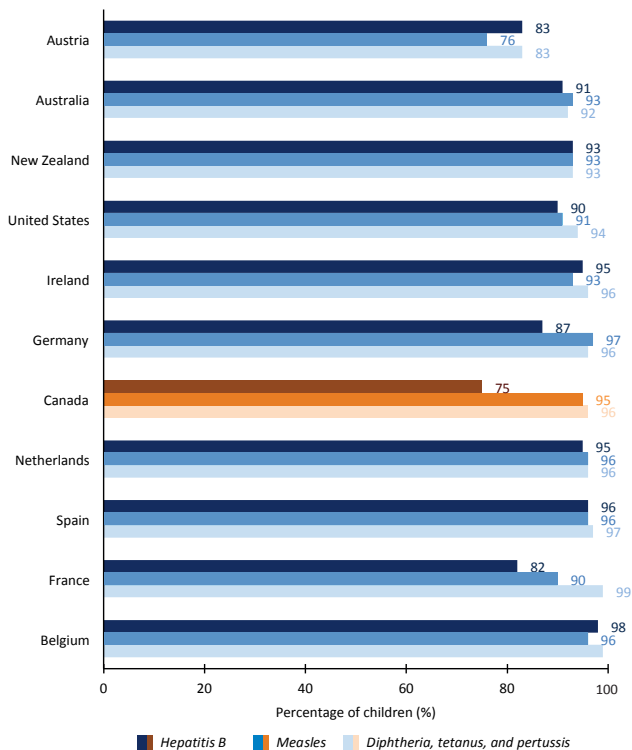
Canada, 2013



Source: Childhood national immunization coverage survey, 2013. Statistics Canada. Accessed at <http://www.statcan.gc.ca/daily-quotidien/150721/dq150721c-eng.htm> on March 23, 2017. www.statcan.gc.ca

Childhood immunization coverage

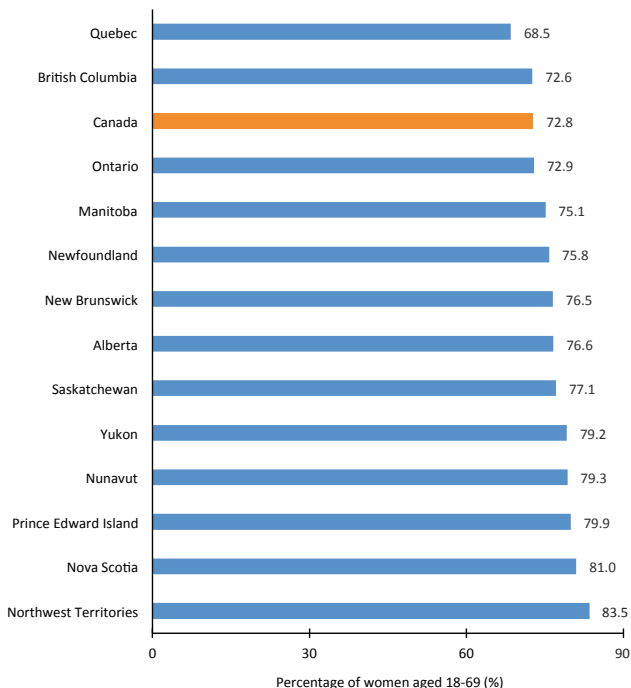
selected OECD countries, 2014



Source: Health care utilization. Organization for Economic Co-operation and Development. Accessed at http://www.oecd-ilibrary.org/social-issues-migration-health/data/oecd-health-statistics/oecd-health-data-health-care-utilisation_data-00542-en on July 7, 2016. www.oecd.org

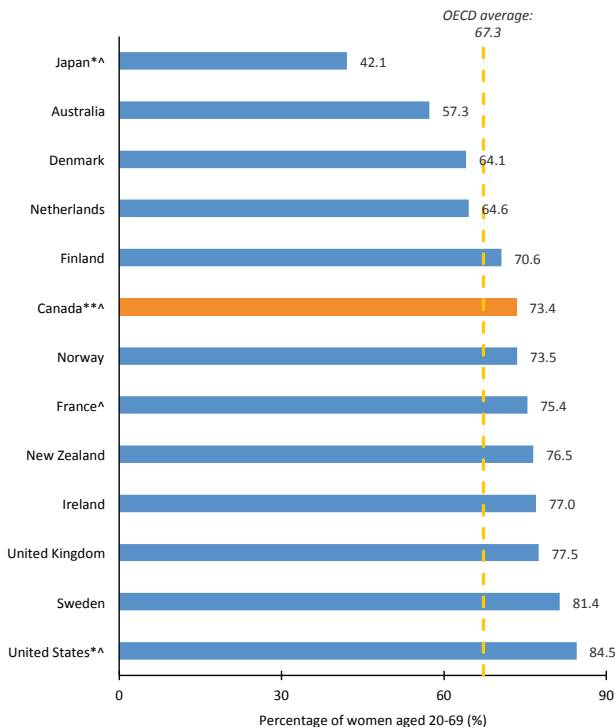
Percentage of women 18-69 years old receiving pap smear tests

Canada, 2005



Source: Table 105-4042: Pap smear, females aged 18 to 69 years, Canada, provinces and territories. Statistics Canada. Accessed at <http://www20.statcan.gc.ca/tables-tableaux/cansim/csv/01054042-eng.zip> on March 24, 2017. www.statcan.gc.ca

Percentage of women 20-69 years old receiving pap smear tests selected OECD countries, 2014



*2013 data

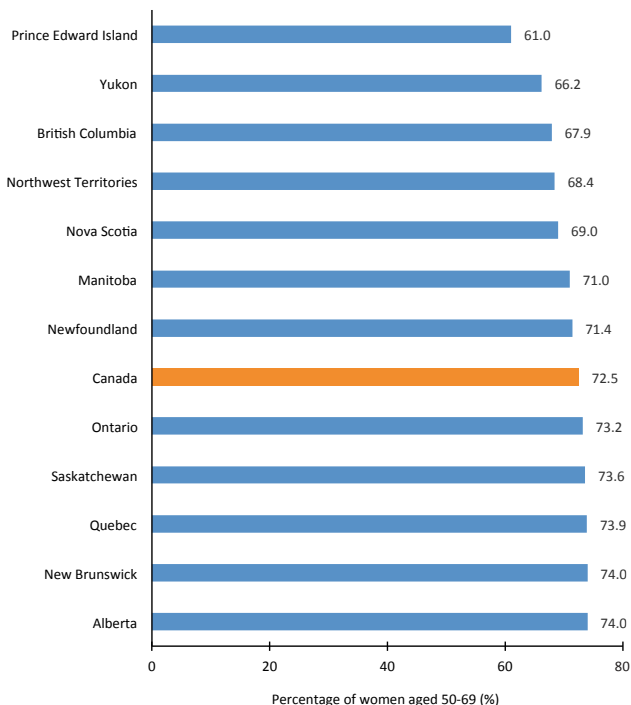
**2012 data

^Results based on a survey

Source: Health care utilization. Organization for Economic Co-operation and Development. Accessed at http://stats.oecd.org/viewhtml.aspx?datasetcode=HEALTH_PROC&lang=en# on July 7, 2016. www.oecd.org

Percentage of women 50-69 years old receiving mammograms

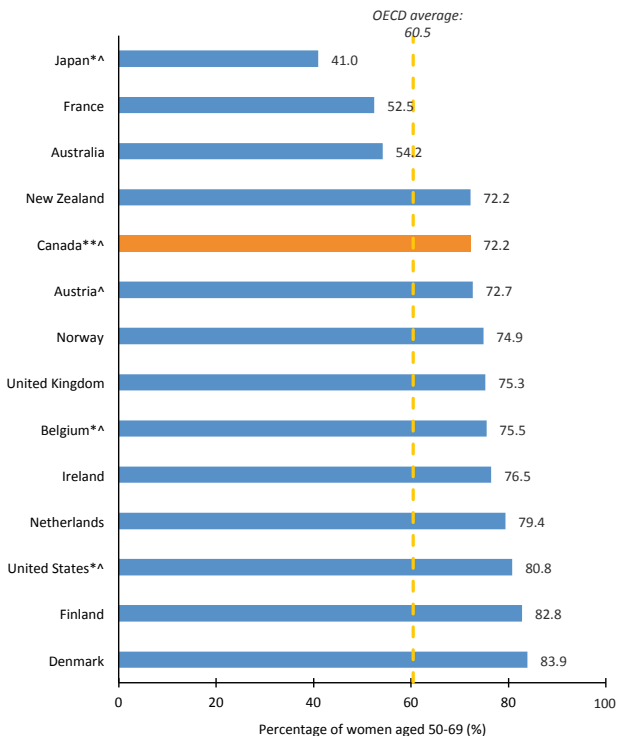
Canada, 2008



Note: Data was not available for Nunavut

Source: Table 105-0543: Mammogram obtained within the last 2 years, by age group, females aged 50 to 69 years, Canada, provinces, territories, health regions (2007 boundaries) and peer groups. Statistics Canada. Accessed at <http://www20.statcan.gc.ca/tables-tableaux/cansim/csv/01050543-eng.zip> on March 24, 2017. www.statcan.gc.ca

Percentage of women 50-69 years old receiving mammograms selected OECD countries, 2014



*2013 data

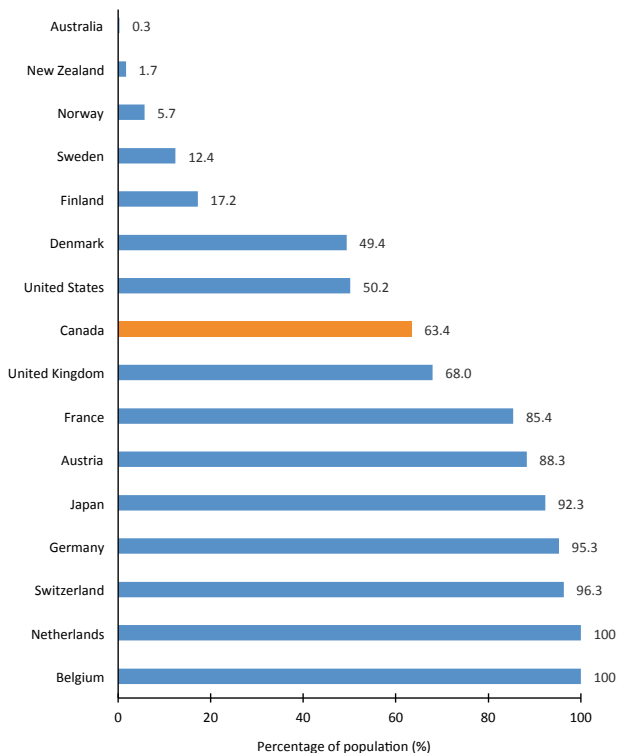
**2012 data

^Results based on a survey

Source: Health care utilization. Organization for Economic Co-operation and Development. Accessed at http://stats.oecd.org/viewhtml.aspx?datasetcode=HEALTH_PROC&lang=en# on July 14, 2016. www.oecd.org

Percentage of population exposed to PM2.5 air pollution

selected OECD countries, 2013



Note: An ambient concentration of PM2.5 is the level suggested in the WHO guidelines as the lowest concentration over which health adverse events are observed

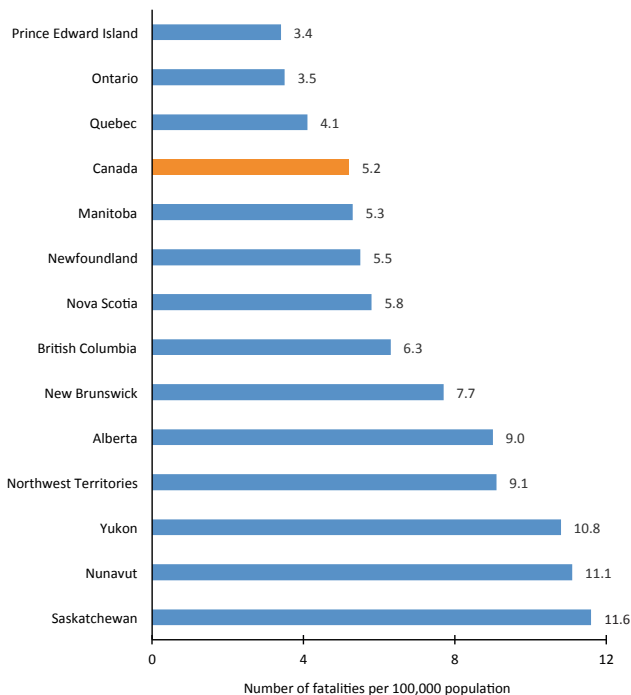
Source: PM2.5 air pollution, population exposed to levels exceeding WHO guideline value (% of total). World Bank. Accessed at <http://data.worldbank.org/indicator/EN.ATM.PM25.MC.ZS> on January 8, 2016. www.worldbank.org

Health Behaviours



Motor vehicle fatalities per 100,000 population

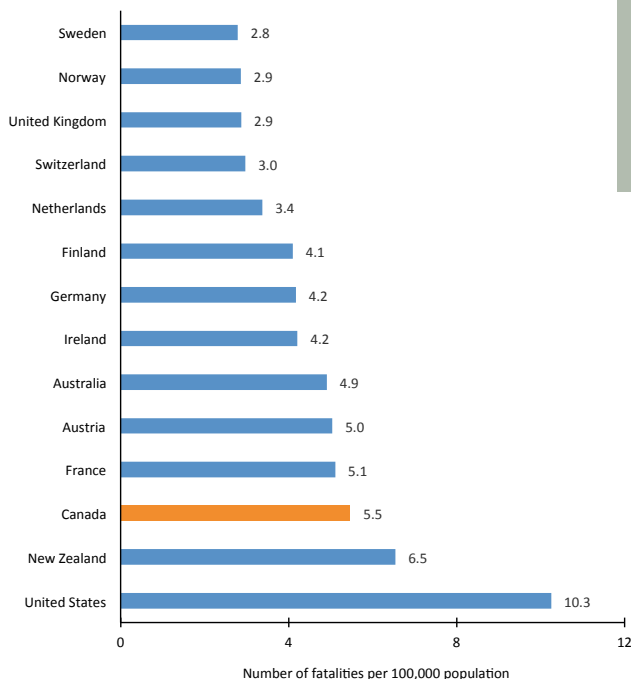
Canada, 2014



Source: Canadian motor vehicle traffic collision statistics, 2014. Transport Canada. Accessed at <https://www.tc.gc.ca/eng/motorvehiclesafety/resources-researchstats-menu-847.htm> on July 7, 2016. www.tc.gc.ca

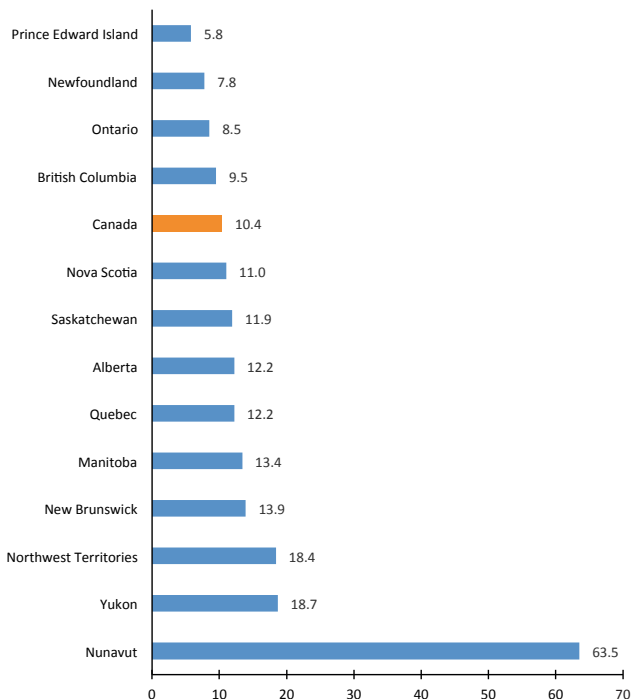
Motor vehicle fatalities per 100,000 population

selected OECD countries, 2014



Source: Road injury accidents. Organization for Economic Co-operation and Development. Accessed at http://stats.oecd.org/Index.aspx?&datasetcode=ITF_ROAD_ACCIDENTS# on March 23, 2017. www.oecd.org

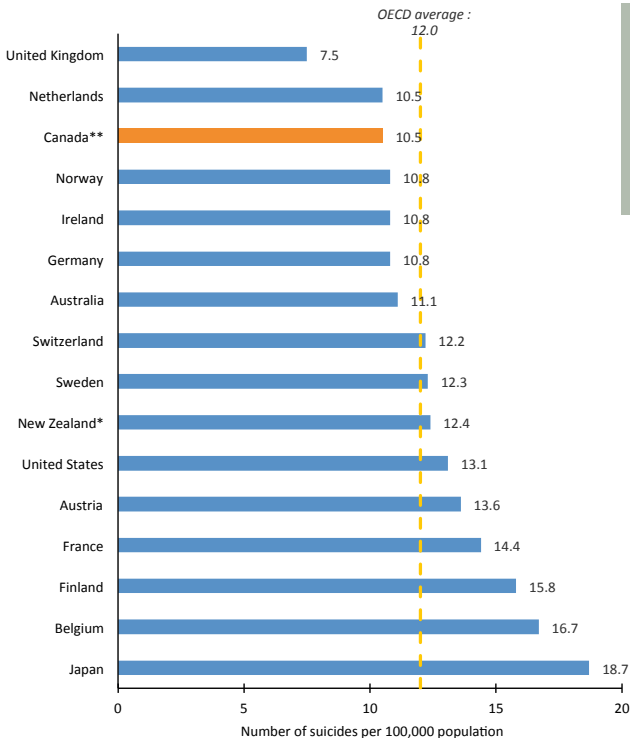
Age-standardized suicide rates per 100,000 population Canada, 2012



Source: Table 102-0563: Leading causes of death, total population, by sex, Canada, provinces and territories. Statistics Canada. Accessed at <http://www20.statcan.gc.ca/tables-tableaux/cansim/csv/01020563-eng.zip> on March 24, 2017. www.statcan.gc.ca

Age-standardized suicide rates per 100,000 population

selected OECD countries, 2013

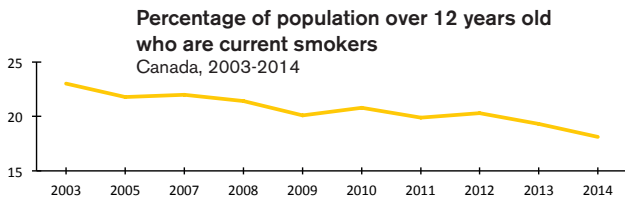
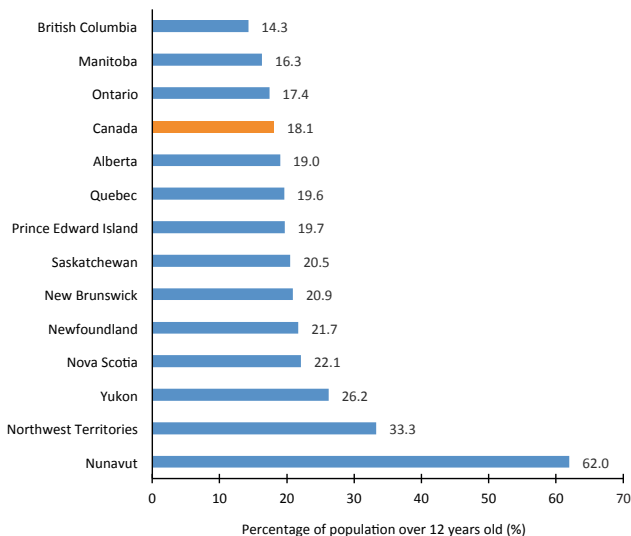


*2012 data

**2011 data

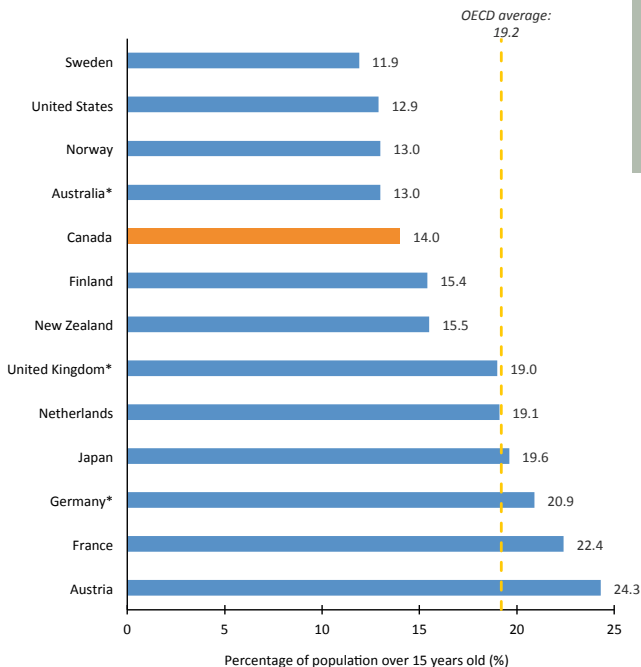
Source: Health status. Organization for Economic Co-operation and Development. Accessed at http://stats.oecd.org/viewhtml.aspx?datasetcode=HEALTH_STAT&lang=en# on February 8, 2016. www.oecd.org

Percentage of population over 12 years old who are current smokers Canada, 2014



Source: Table 105-0502: Health indicator profile, annual estimates, by age group and sex, Canada, provinces, territories, health regions (2013 boundaries) and peer groups. Statistics Canada. Accessed at <http://www20.statcan.gc.ca/tables-tableaux/cansim/csw/01050502-eng.zip> on March 24, 2017. www.statcan.gc.ca

Percentage of population over 15 years old who are current smokers selected OECD countries, 2014

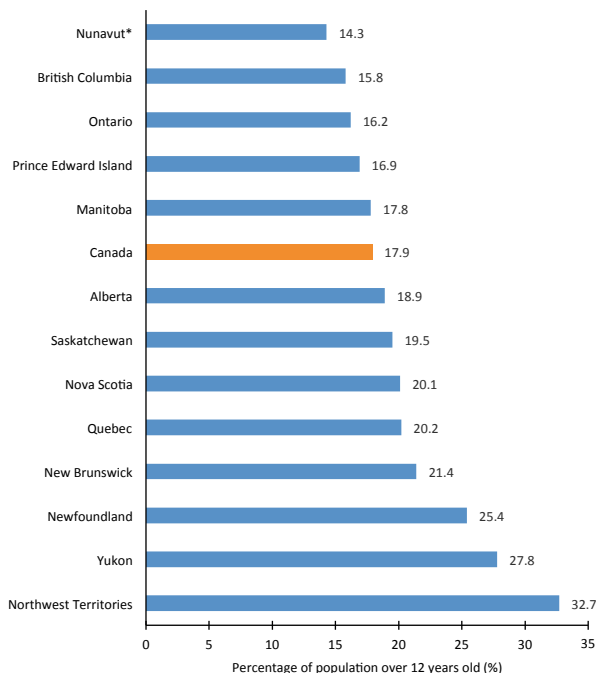


*2013 data

Source: Non-medical determinants of health. Organization for Economic Co-operation and Development. Accessed at http://stats.oecd.org/viewhtml.aspx?datasetcode=HEALTH_LVNG&lang=en# on July 14, 2016. www.oecd.org

Percentage of population over 12 years old who are heavy alcohol consumers

Canada, 2014



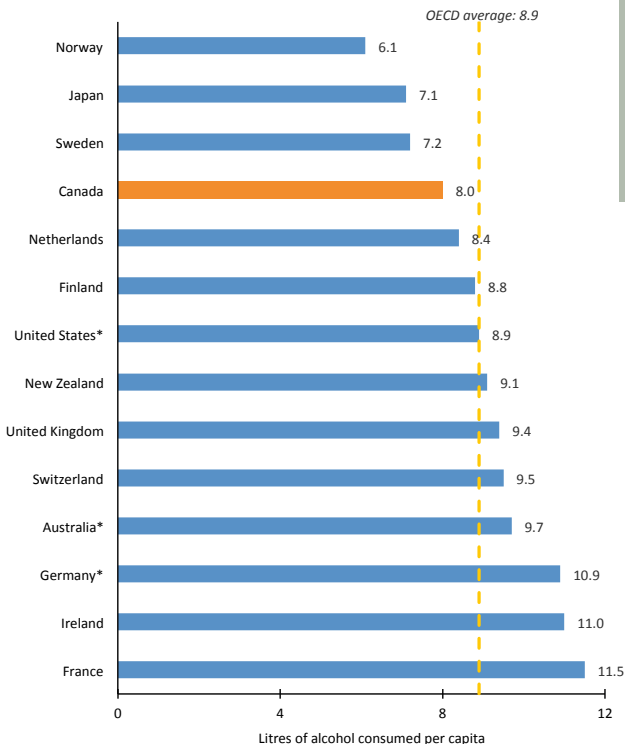
Note: *Heavy alcohol consumption* was defined as females and males, who reported, respectively, more than 4 and 5 drinks, at least once a month in the past 12 months

*Use with caution

Source: Table 105-0502: Health indicator profile, annual estimates, by age group and sex, Canada, provinces, territories, health regions (2013 boundaries) and peer groups. Statistics Canada. Accessed at <http://www20.statcan.gc.ca/tables-tableaux/cansim/csv/01050502-eng.zip> on March 24, 2017. www.statcan.gc.ca

Alcohol consumption of population over 15 years old per capita

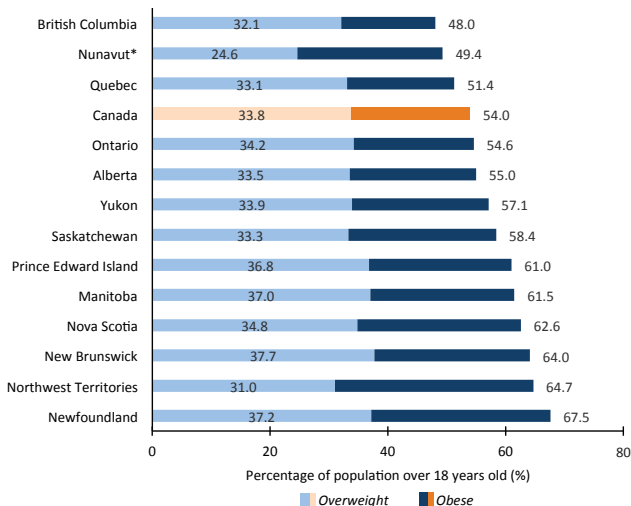
selected OECD countries, 2014



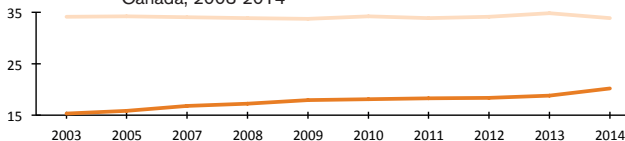
*2013 data

Source: Non-medical determinants of health. Organization for Economic Co-operation and Development. Accessed at http://stats.oecd.org/viewhtml.aspx?datasetcode=HEALTH_LVNG&lang=en# on July 14, 2016. www.oecd.org

Percentage of population over 18 years old who are overweight/obese Canada, 2014



Percentage of population over 18 years old who are overweight/obese Canada, 2003-2014

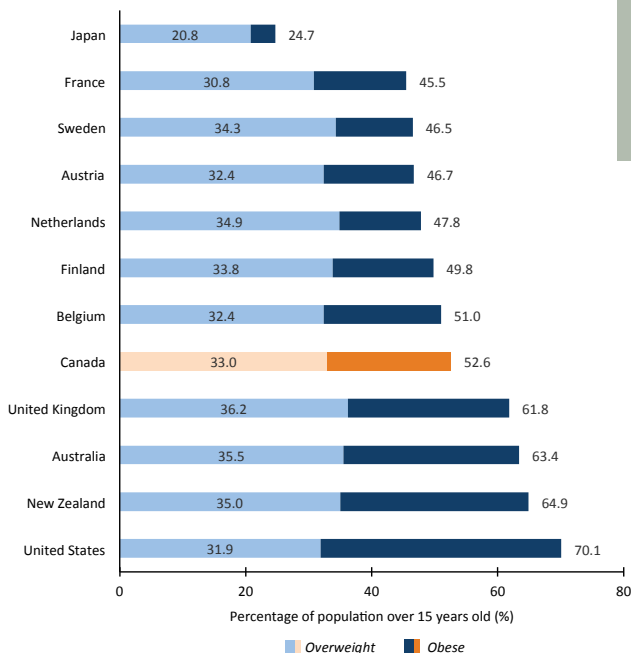


*Use with caution

Source: Table 105-0502: Health indicator profile, annual estimates, by age group and sex, Canada, provinces, territories, health regions (2013 boundaries) and peer groups. Statistics Canada. Accessed at <http://www20.statcan.gc.ca/tables-tableaux/cansim/csv/01050502-eng.zip> on March 24, 2017. www.statcan.gc.ca

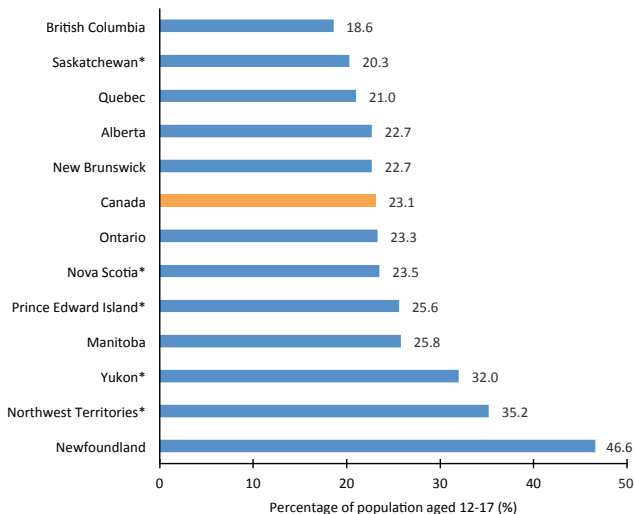
Percentage of population over 15 years old who are overweight/obese

selected OECD countries, 2014

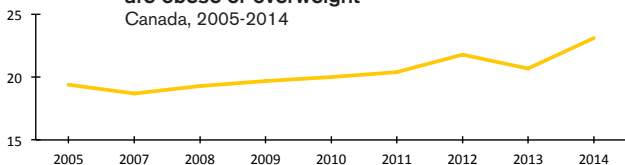


Source: Non-medical determinants of health. Organization for Economic Co-operation and Development. Accessed at http://stats.oecd.org/viewhtml.aspx?datasetcode=HEALTH_LVNG&lang=en# on July 14, 2016. www.oecd.org

Percentage of children 12-17 years old who are obese or overweight Canada, 2014



Percentage of children 12-17 years old who are obese or overweight Canada, 2005-2014



*Use with caution

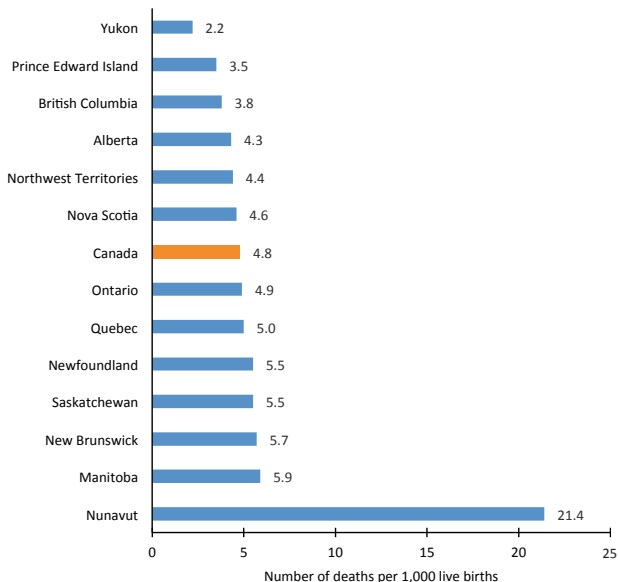
Source: Table 105-0502: Health indicator profile, annual estimates, by age group and sex, Canada, provinces, territories, health regions (2013 boundaries) and peer groups. Statistics Canada. Accessed at <http://www20.statcan.gc.ca/tables-tableaux/cansim/csw/01050502-eng.zip> on March 24, 2017. www.statcan.gc.ca

Health Status



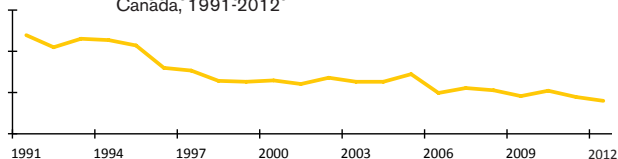
Infant mortality rates per 1,000 live births

Canada, 2012



Infant mortality rates per 1,000 live births

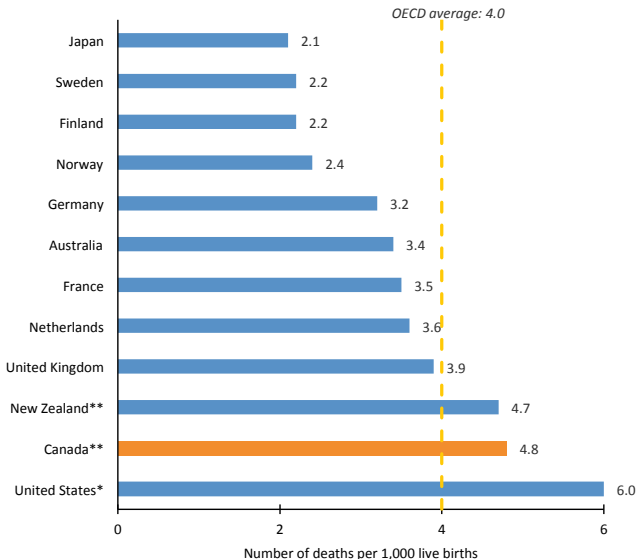
Canada, 1991-2012



Source: Infant mortality rates, by province & territory. Statistics Canada. Accessed at <http://www.statcan.gc.ca/tables-tableaux/sum-som/101/cst01/health21a-eng.htm> on March 23, 2017. www.statcan.gc.ca

Infant mortality rates per 1,000 live births

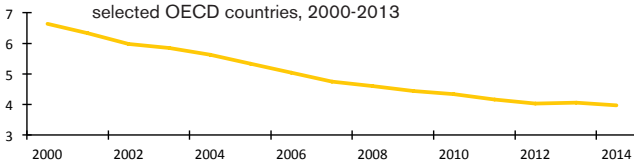
selected OECD countries, 2014



Health Status

Average infant mortality rates per 1,000 live births

selected OECD countries, 2000-2013



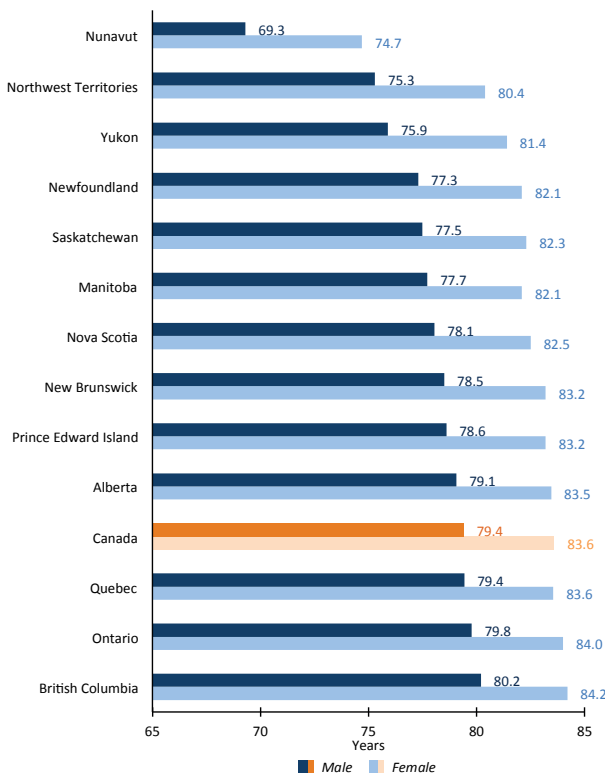
*2013 data

**2012 data

Source: Health status. Organization for Economic Co-operation and Development. Accessed at http://stats.oecd.org/viewhtml.aspx?datasetcode=HEALTH_STAT&lang=en# on July 14, 2016. www.oecd.org

Life expectancy at birth

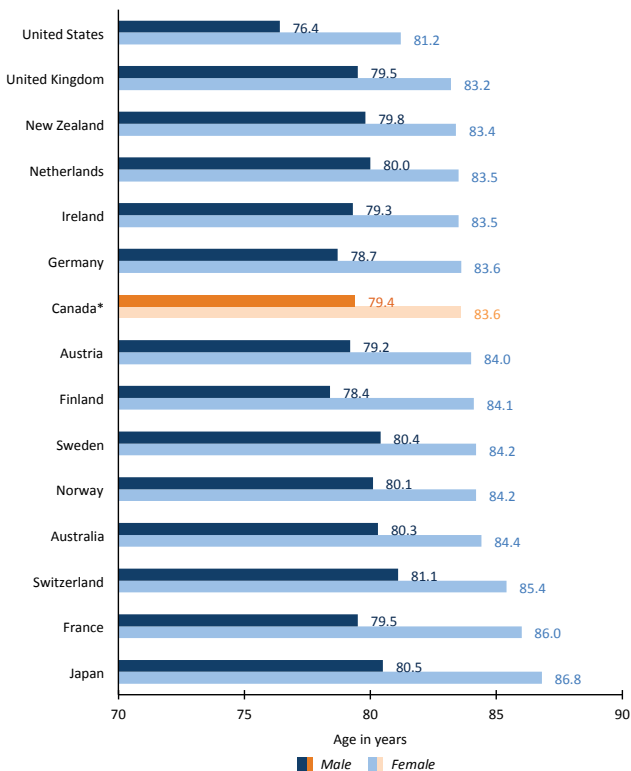
Canada, 2010-2012



Source: Table 053-0003: Elements of the life table, Canada, provinces and territories. Statistics Canada. Accessed at <http://www20.statcan.gc.ca/tables-tableaux/cansim/csv/00530003-eng.zip> on March 24, 2017. www.statcan.gc.ca

Life expectancy at birth

selected OECD countries, 2014



*2012 data

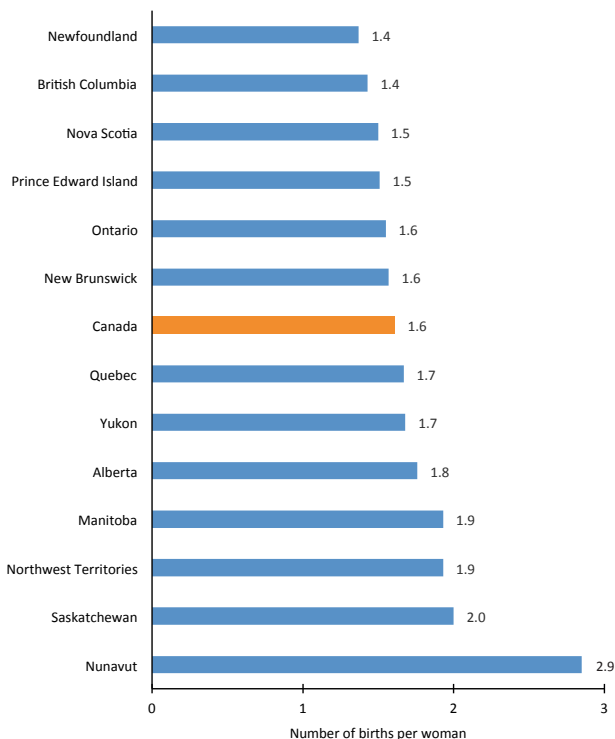
Source: Health status. Organization for Economic Co-operation and Development. Accessed at http://stats.oecd.org/viewhtml.aspx?datasetcode=HEALTH_STAT&lang=en# on July 7, 2016. www.oecd.org

Demographics



Fertility rates

Canada, 2012

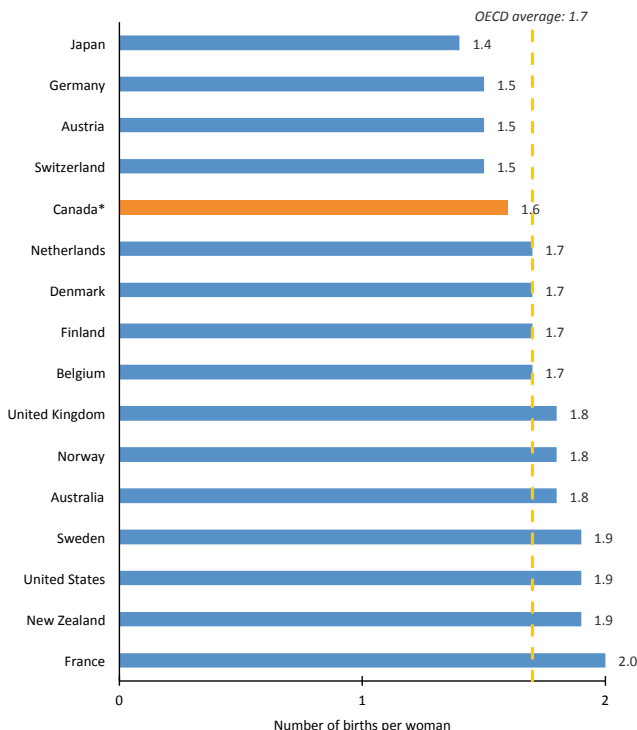


Note: *Fertility rate* is the average number of children per woman between 15 to 49 years old

Source: Births and total fertility rate, by province and territory. Statistics Canada. Accessed at <http://www.statcan.gc.ca/tables-tableaux/sum-som/l01/cst01/hlth85b-eng.htm> on March 24, 2017. www.statcan.gc.ca

Fertility rates

selected OECD countries, 2014



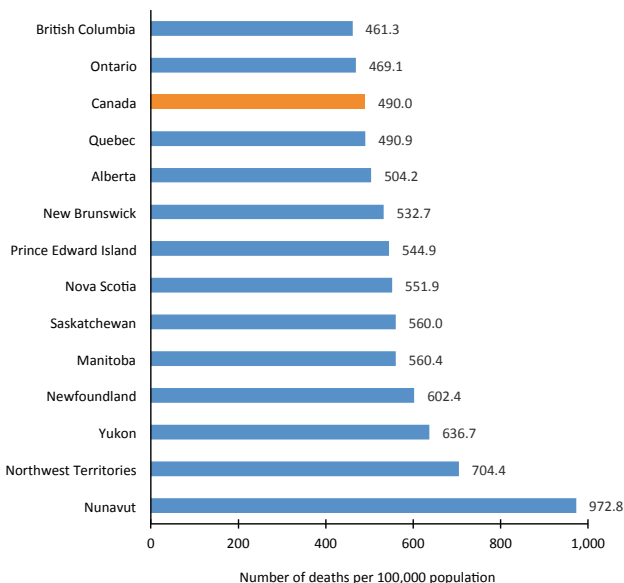
Note: *Fertility rate* is the average number of children per woman between 15 to 49 years old

*2012 data

Source: Demography: Fertility rates. Organization for Economic Co-operation and Development. Accessed at <https://data.oecd.org/pop/fertility-rates.htm> on July 12, 2016. www.oecd.org

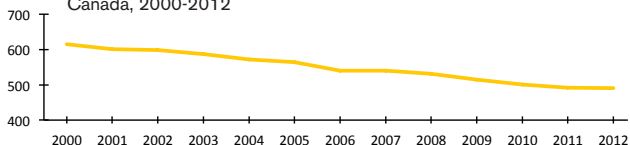
Age-standardized mortality rates per 100,000 population

Canada, 2012



Age-standardized mortality rates per 100,000 population

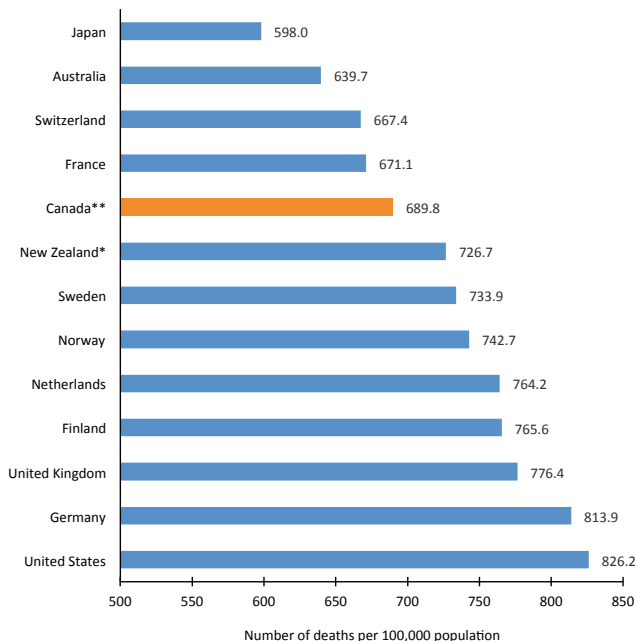
Canada, 2000-2012



Source: Table 102-0552: Deaths and mortality rate, by selected grouped causes and sex, Canada, provinces and territories. Statistics Canada. Accessed at <http://www20.statcan.gc.ca/tables-tableaux/cansim/csv/01020552-eng.zip> on March 24, 2017. www.statcan.gc.ca

Age-standardized mortality rates per 100,000 population

selected OECD countries, 2013



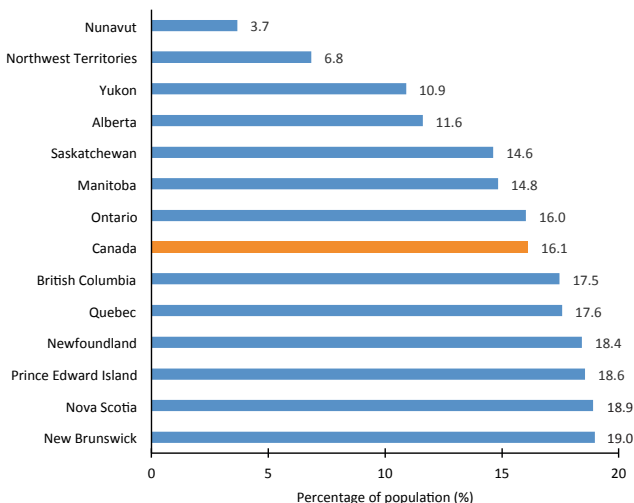
*2012 data

**2011 data

Source: Health status: Mortality. Organization for Economic Co-operation and Development. Accessed at http://stats.oecd.org/index.aspx?DataSetCode=HEALTH_LTCR# on July 12, 2016. www.oecd.org

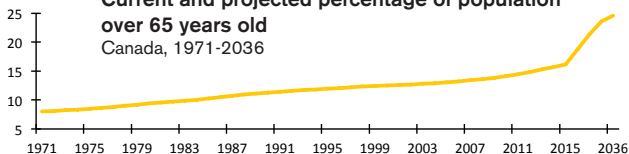
Percentage of population over 65 years old

Canada, 2015



Current and projected percentage of population over 65 years old

Canada, 1971-2036



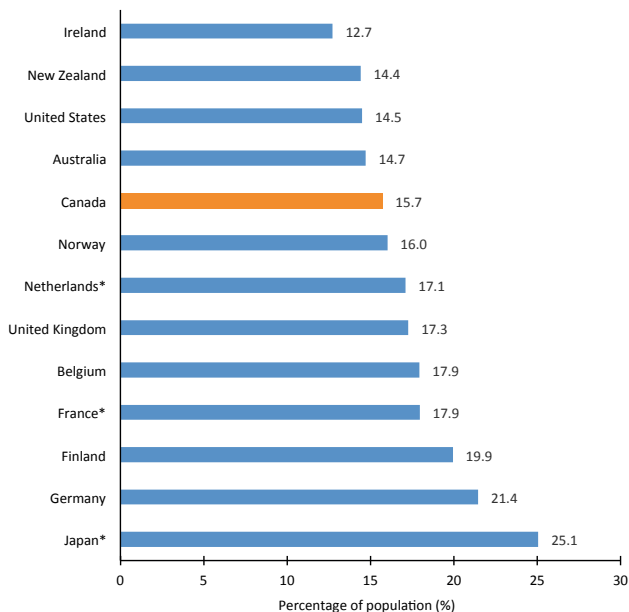
Note: 2015 data is an estimate from 2011 Census data

Source: Table 051-000: Estimates of population, by age group and sex for July 1, Canada, provinces and territories. Statistics Canada. Accessed at <http://www20.statcan.gc.ca/tables-tableaux/cansim/csv/00510001-eng.zip> on March 24, 2017. www.statcan.gc.ca

Table 10-1: Population projections for Canada, provinces and territories. Statistics Canada. Accessed at <http://www.statcan.gc.ca/pub/91-520-x/91-520-x2010001-eng.htm> on March 24, 2017. www.statcan.gc.ca

Percentage of population over 65 years old

selected OECD countries, 2014

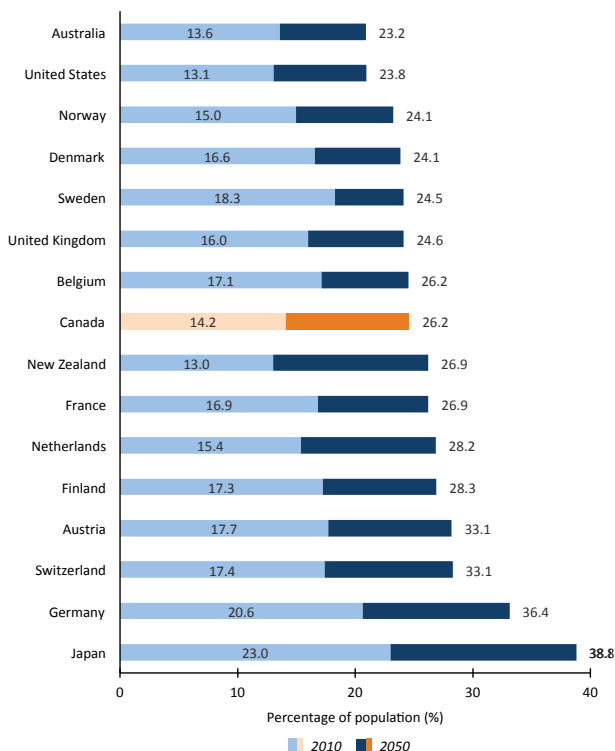


*2013 data

Source: Labour force statistics. Organization for Economic Co-operation and Development. Accessed at http://www.oecd-ilibrary.org/employment/data/labour-force-statistics/summary-tables_data-00286-en on March 23, 2017. www.oecd.org

Percentage of population over 65 years old

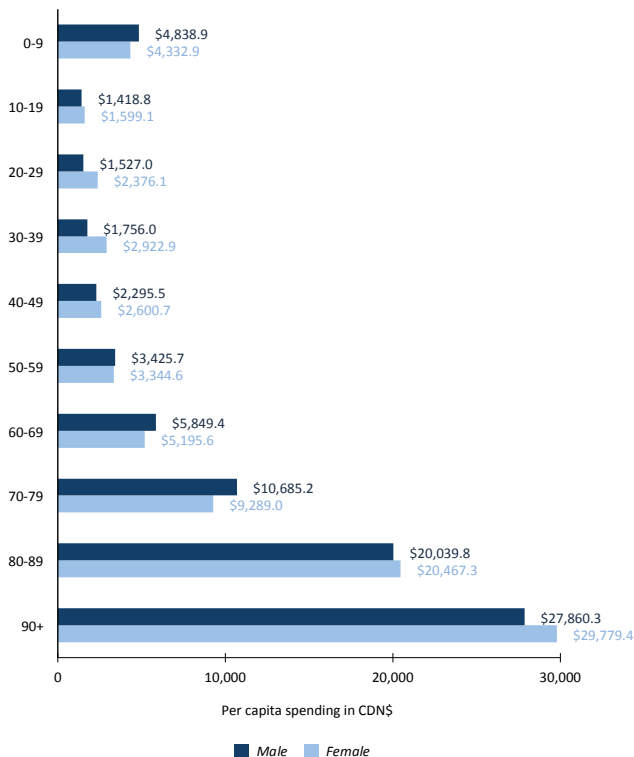
selected OECD countries, 2010 and 2050



Source: Health at a glance, 2015: Demographic trends. Organization for Economic Co-operation and Development. Accessed at http://www.oecd-ilibrary.org/social-issues-migration-health/health-at-a-glance-2015/demographic-trends_health_glance-2015-71-en on January 8, 2016. www.oecd.org

Health expenditure per capita, by age and sex

Canada, 2014



Demographics

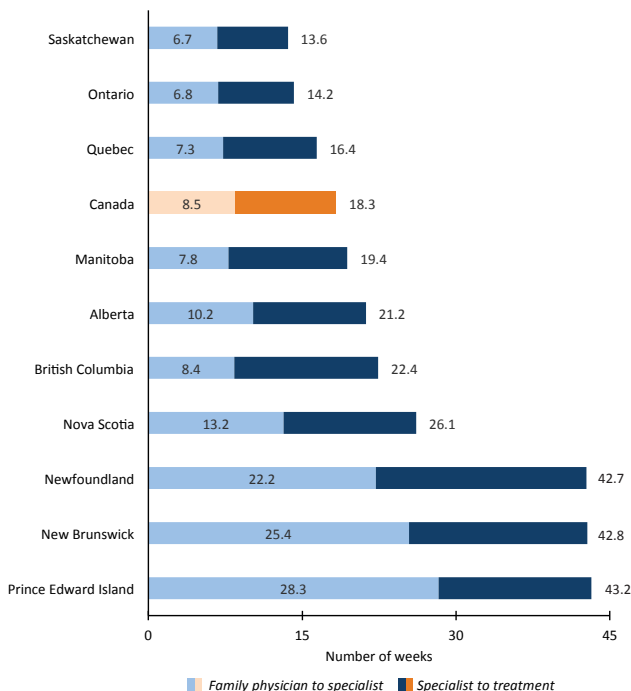
Source: National health expenditure database, 1975-2015. Canadian Institute for Health Information.
 Accessed at <https://www.cihi.ca/en/national-health-expenditure-trends> on March 23, 2017. www.cihi.ca

Health System Performance



Waiting time from referral by family physician to treatment

Canada, 2015

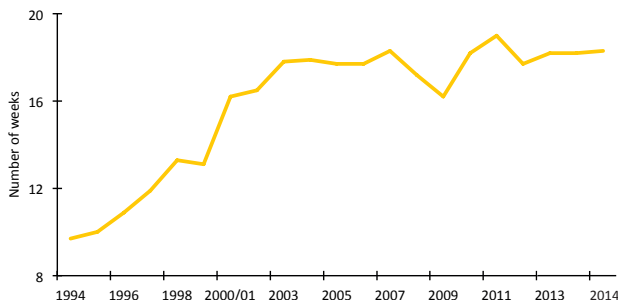


Note: Data was not available for Northwest Territories, Yukon, and Nunavut

Source: Waiting your turn: Wait times for health care in Canada, 2015 report. Fraser Institute.
 Accessed at <https://www.fraserinstitute.org/sites/default/files/waiting-your-turn-2015.pdf> on March 24, 2017. www.fraserinstitute.org

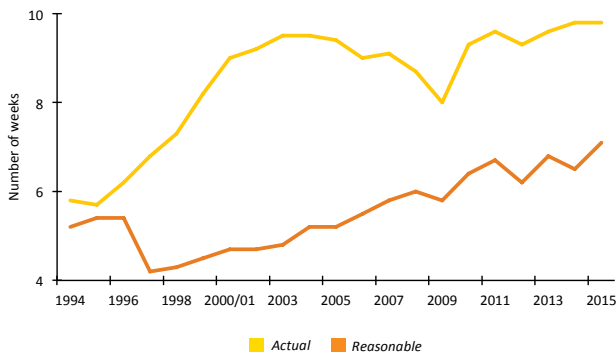
Waiting time from referral by family physician to treatment

Canada, 1994-2015



Actual vs. reasonable waits between specialist to treatment

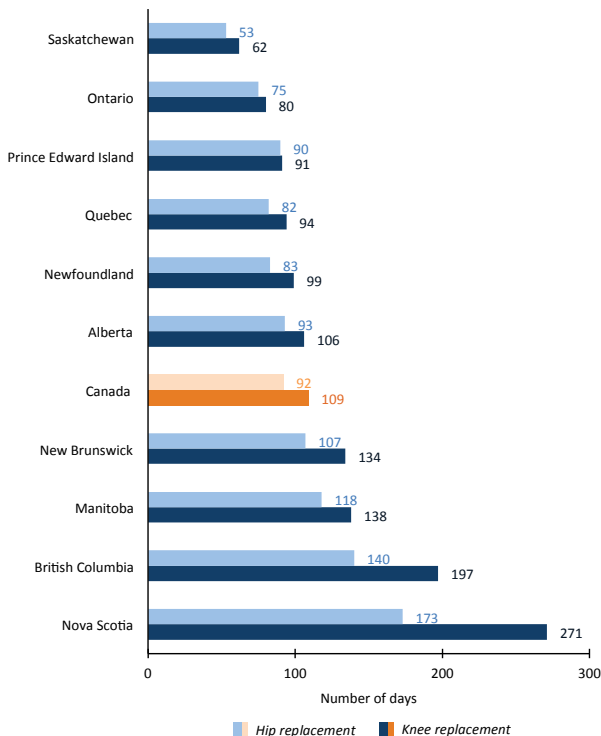
Canada, 1994-2015



Source: Waiting your turn: Wait times for health care in Canada, 2015 Report. Fraser Institute. Accessed at <https://www.fraserinstitute.org/sites/default/files/waiting-your-turn-2015.pdf> on July 17, 2016. www.fraserinstitute.org

Hip and knee replacement - waiting time from specialist assessment to treatment

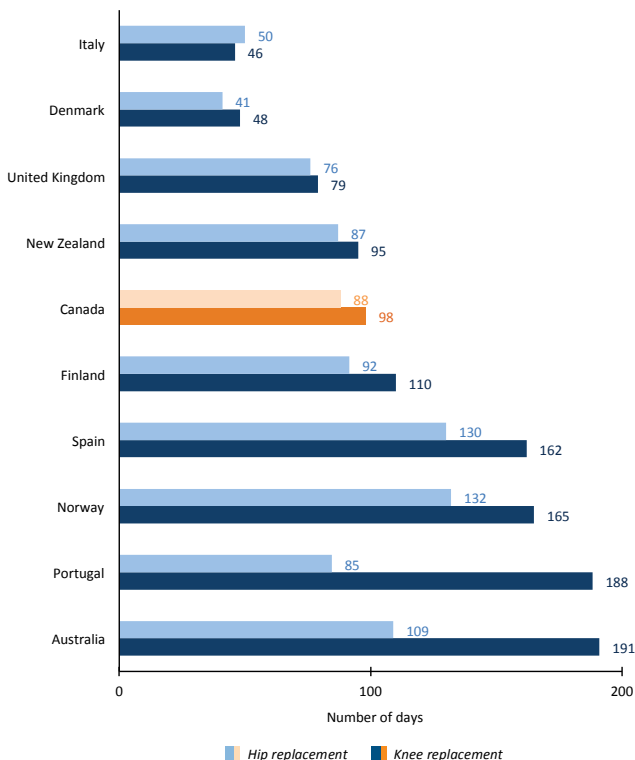
Canada, 2013



Source: Benchmarks for treatment and wait time trending across Canada. Canadian Institute for Health Information. Accessed at <http://waittimes.cihi.ca> on July 22, 2016. www.cihi.ca

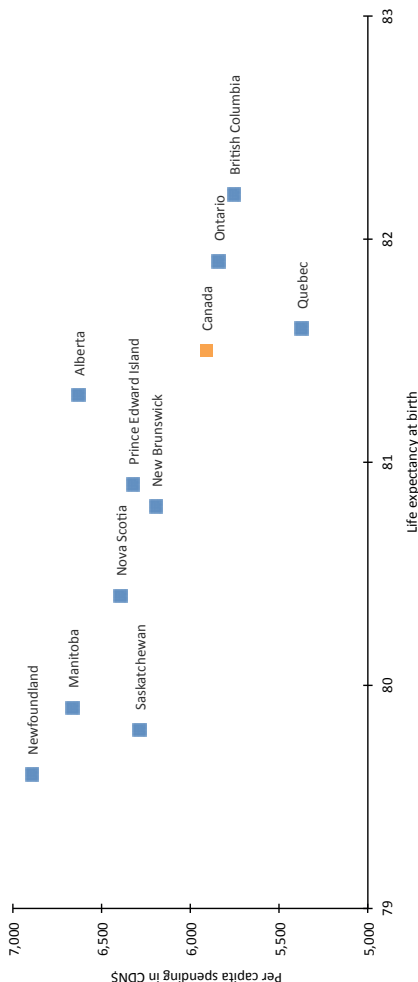
Hip and knee replacement - waiting time from specialist assessment to treatment

selected OECD countries, 2014



Source: Health care utilization: Waiting times. Organization for Economic Co-operation and Development. Accessed at <http://stats.oecd.org/#> on July 21, 2016. www.oecd.org

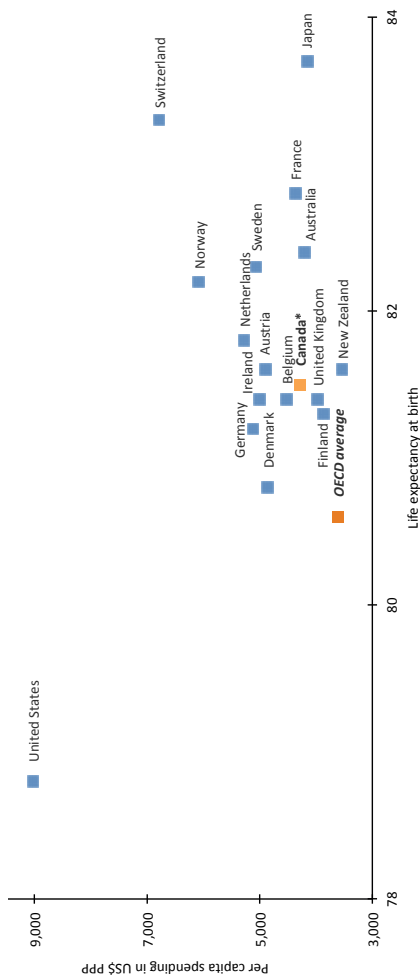
Life expectancy vs. health care expenditure Canada, 2012



Source: Table 053-0003: Elements of the life table, Canada, provinces and territories, Statistics Canada. Accessed at <http://www20.statcan.gc.ca/tables-tableaux/cansim/csv/00530003-eng.zip> on March 24, 2017. www20.statcan.gc.ca

National health expenditure trends, 1975-2015, Canadian Institute for Health Information. Accessed at <https://www.cihi.ca/en/spending-and-health-workforce/spending/national-health-expenditure-trends> on March 24, 2017. www.cihi.ca

Life expectancy vs. health care expenditure selected OECD countries, 2014



*2012 data

Source: OECD health statistics, 2015, Organization for Economic Co-operation and Development. Accessed at <http://stats.oecd.org/viewhtml.aspx?datasetcode=SHA&lang=en#> on July 14, 2016. www.oecd.org

Health status. Organization for Economic Co-operation and Development. Accessed at http://stats.oecd.org/viewhtml.aspx?datasetcode=HEALTH_STAT&lang=en# on July 7, 2016. www.oecd.org

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