Session 079: Canadian vs. U.S. Health Care: A Study in Contrasts

SOA Antitrust Compliance Guidelines
SOA Presentation Disclaimer

2019 Annual Meeting

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Session 79, Canadian vs. U.S. Health Care Systems

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SOCIETY OF ACTUARIES Antitrust Compliance Guidelines

Active participation in the Society of Actuaries is an important aspect of membership. While the positive contributions of professional societies and associations are well-recognized and encouraged, association activities are vulnerable to close antitrust scrutiny. By their very nature, associations bring together industry competitors and other market participants.

The United States antitrust laws aim to protect consumers by preserving the free economy and prohibiting anti-competitive business practices; they promote competition. There are both state and federal antitrust laws, although state antitrust laws closely follow federal law. The Sherman Act, is the primary U.S. antitrust law pertaining to association activities. The Sherman Act prohibits every contract, combination or conspiracy that places an unreasonable restraint on trade. There are, however, some activities that are illegal under all circumstances, such as price fixing, market allocation and collusive bidding.

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- Do not discuss prices for services or products or anything else that might affect prices
- Do not discuss what you or other entities plan to do in a particular geographic or product markets or with particular customers.
- Do not speak on behalf of the SOA or any of its committees unless specifically authorized to do so.
- Do leave a meeting where any anticompetitive pricing or market allocation discussion occurs.
- **Do** alert SOA staff and/or legal counsel to any concerning discussions
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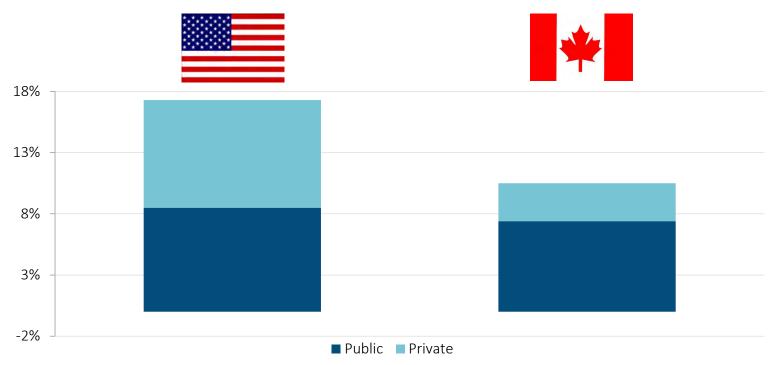


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Total Health Expenditures as Percent of GDP by Public vs. Private Spending, 2016



Source: Kaiser Family Foundation analysis of OECD data (Kaiser-Peterson Health System Tracker)





What to Expect

- Canadian System Overview
- U.S. System Overview
- Moderated Q & A session attendees are welcome to participate









U.S. Health Care Background

Kurt J. Wrobel, FSA, MAAA

Key U.S. Healthcare Highlights

- Significant Government Involvement
 - Explicit: Medicare and Medicaid
 - Implicit: Tax advantaged spending for commercial plans; patent and regulatory protection for pharmaceuticals
- Significant non-profit presence
- Choice among competing health plans
 - Higher administrative costs



Key U.S. Healthcare Highlights

- Several different programs provide insurance protection depending on age, income, and employment
 - Complexity

- System encourages greater resource allocation toward health care services
 - Fee-for-service still important
 - 3rd party payment encourages greater utilization
 - Cultural willingness to spend money on premiums and cost sharing



Summary of Government Programs

- Medicare Over 65; Financed by the federal government
 - Choice of the fee-for-service (FFS) government run program and competing health plans
 - Health plans bid below a FFS benchmark and use the difference to provide additional benefits to members
 - Premiums and cost sharing
- Medicaid Income and condition based criteria; financed by the federal government and states
 - Choice of competing health plans (in most states)
 - Limited cost sharing



Summary of Private Programs

- Large Employer obtain health care through employment status
 - Employers choose the health plan and offer multiple plan options with different employee contributions
 - Health care premiums are provided tax free to the individual
 - Premiums match the medical cost of the group or are self funded by the employer
- Small Group similar to large group except fully insured premiums do not vary based on health status (risk adjustment used instead)

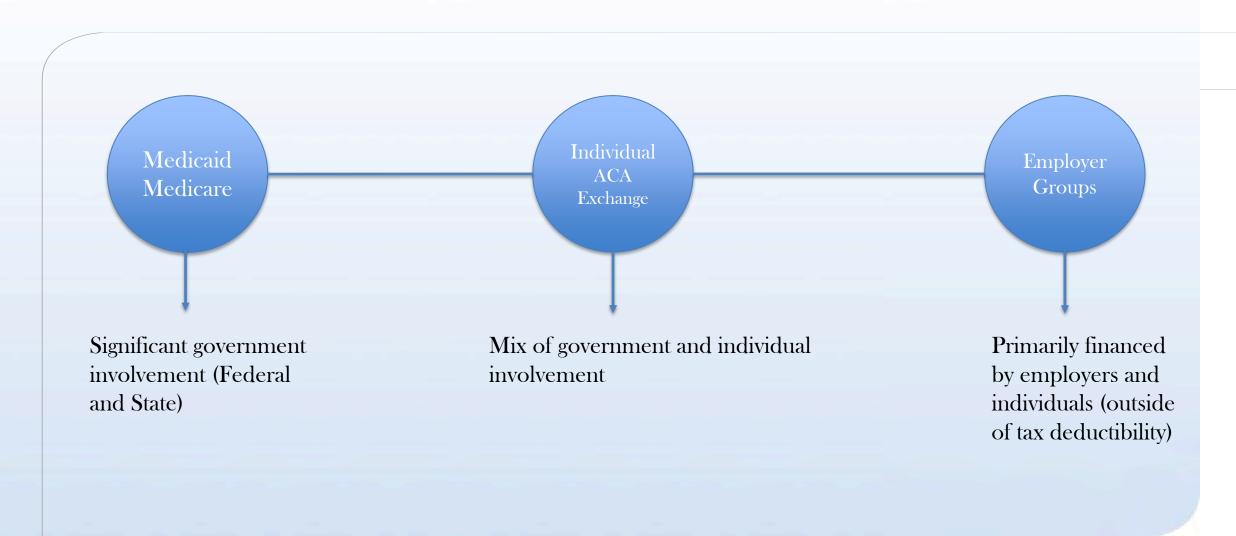


ACA Individual Market

- Guaranteed Issue
- Income based subsidy up to 400% of the federal poverty level
- Premiums are not adjusted based on health status
- Complex risk adjustment process



U.S. Health Care System Insurance Programs





Summary of Key Data

| U.S. Health Care System | Data | Source | |
|---|--|--|--|
| Members enrolled by major insurance program (2017) | Employer (49%), Non Group (7%), Medicaid (24%), Medicare (14%), Other (1%), Uninsured (9%) | Kaiser Family Foundation | |
| U.S. Spend by Major Programs | Medicare (28%); Medicaid (24%); Private (48%) | CMS | |
| U.S. Administrative Cost Relative to Canada | U.S (8.3%); Canada (2.7%) | Center for American Progress | |
| Value of Tax Deductibility of employer sponsored coverage | \$280 Billion (24% of total spend) | Urban Institute Brookings Institute | |
| Percentage of Non-Profit Hospitals (2017) | 58% Registered Hospitals are non-profit, 21% for profit, 20% State Owned | American Hospital Association | |



Summary of Key Data

| U.S. Health Care System | Data | Source |
|---|---|--------------------------------------|
| Rx Patent Protection | Average length: 12-14 years; 72% of drug spend is on branded drugs; Price reduction of 38%-48% after going off patent | National Bureau Economic Research |
| Number of states with Medicaid expansion | 37 states | Kaiser Family Foundation |
| Medicaid MCO use of payment to promote access to care | 66% | Kaiser Family Foundation |
| Self Funded v. Fully Insured financing for large groups | 61% of workers are in a plan that is full or partially funded | Kaiser Family Foundation |
| Medicare Advantage Plans participation | 34% of all enrollees | Kaiser Family Foundation |
| Uninsured Rate | 44M (2013) to 27M (2017); Income composition of the uninsured: 400% of FDL (18%); 200% -399% (35%); 100%-199% (29%); <100% (18%); 25% non-citizen | Kaiser Family Foundation |



The ACA Market and Complexity



Individual ACA subsidies

• 2nd lowest silver plan determines subsidy

| ACA component | Plan 1 | Plan 2 | Plan 3 |
|---|--------|--------|--------|
| | | | |
| Full premium | \$300 | \$325 | \$350 |
| Subsidy amount (based on the second-lowest silver plan) | \$268 | \$268 | \$268 |
| Monthly net premium (150% of Federal Poverty Level) | \$32 | \$57 | \$82 |
| % of income | 2.2% | 4.0% | 5.7% |



Benchmark plan



Individual ACA subsidies

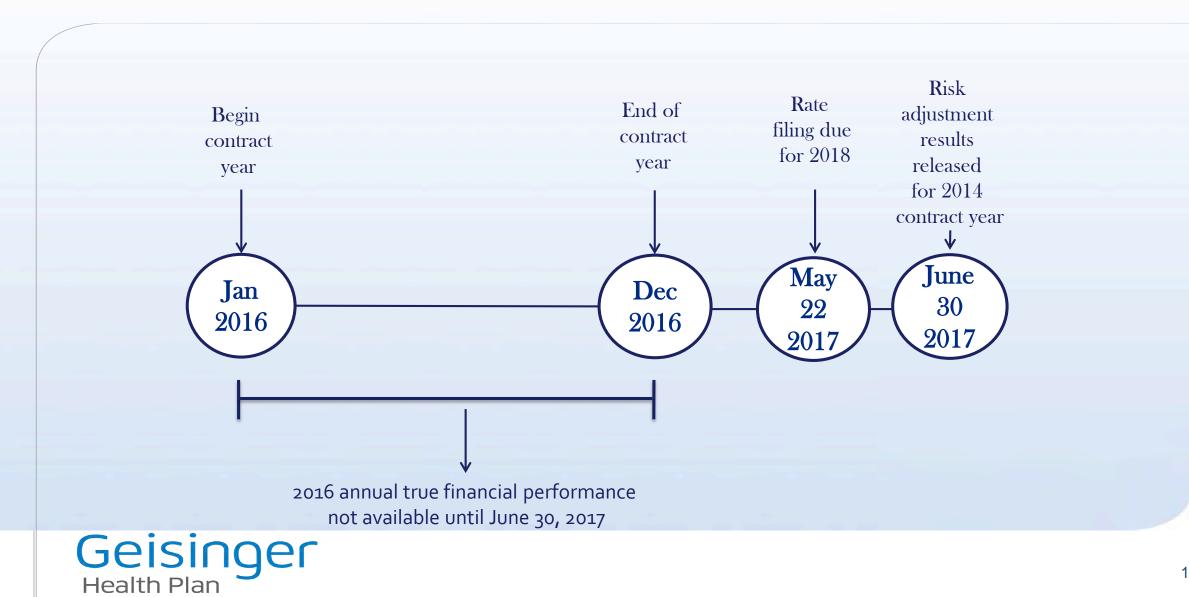
| ACA component | Plan 1 | Plan 2 | Plan 3 | |
|---|--------|--------|--------|--|
| Full premium | \$320 | \$325 | \$295 | |
| Percentage change from 2014/Rate increase | 7% | 0% | -16% | |
| Subsidy amount (based on second-lowest silver plan) | \$263 | \$263 | \$263 | |
| 2015 net premium | \$57 | \$62 | \$32 | |
| 2014 Monthly net premium (150% of FPL) | \$32 | \$57 | \$82 | |
| % Net premium change from 2014 | 78% | 9.0% | -61% | |



Impact of subsidy change



ACA Risk adjustment

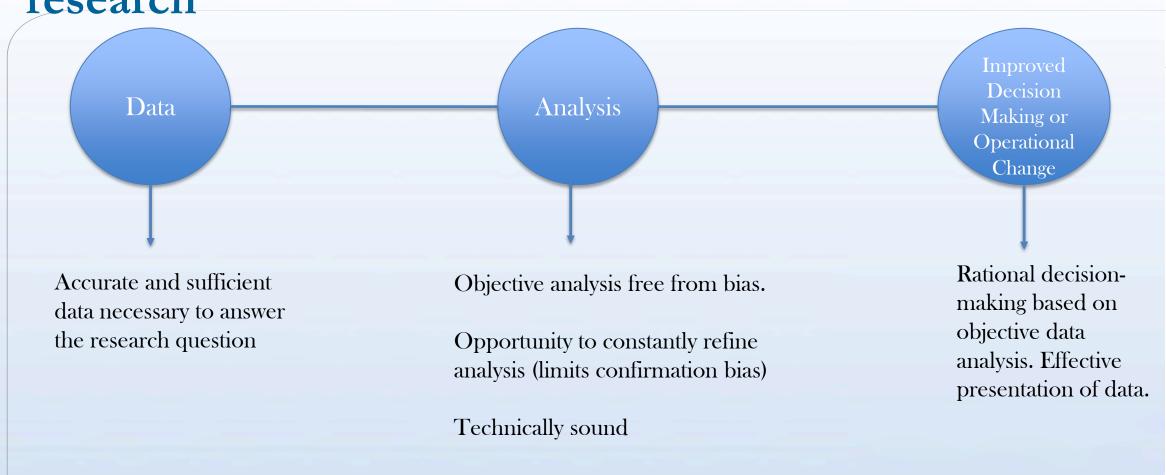


Analytic Analysis



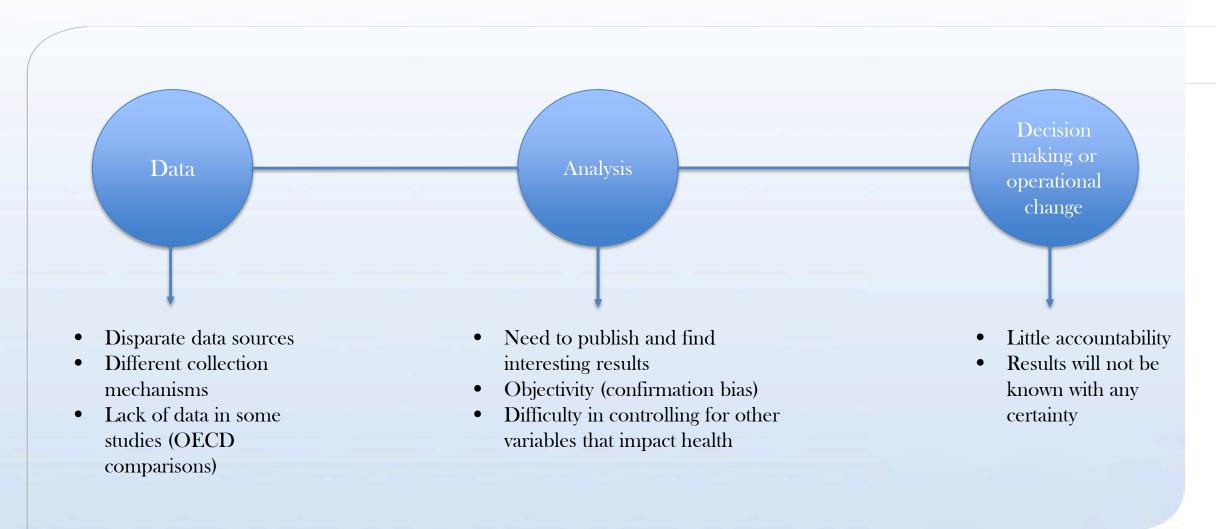
Building Blocks for good analytic decision making and

research





Cross Country Health Care Research





Control Variables for the U.S. Population

- Homicides
- Suicides
- High speed vehicle accidents
- Obesity (Diet)
- Infertility Treatment



Average Life Expectancy by Country

| OECD Nations | Actual Mean Life Expectancy at Birth, 1980-1999 | OECD Nations | Standardized Mean Life Expectancy at Birth, 1980-1999 (accounting for fatal injuries) |
|-----------------|---|-----------------|---|
| Japan | 78.7 | United States | 76.9 |
| Iceland | 78.0 | Switzerland | 76.6 |
| Sweden | 77.7 | Norway | 76.3 |
| Switzerland | 77.6 | Canada | 76.2 |
| Canada | 77.3 | Iceland | 76.1 |
| Spain | 77.3 | Sweden | 76.1 |
| Greece | 77.1 | Germany | 76.1 |
| Netherlands | 77.0 | Denmark | 76.1 |
| Norway | 77.0 | Japan | 76.0 |
| Australia | 76.8 | Australia | 76.0 |
| Italy | 76.6 | France | 76.0 |
| France | 76.6 | Belgium | 76.0 |
| Belgium | 75.7 | Austria | 76.0 |
| United Kingdom | 75.6 | Netherlands | 75.9 |
| Germany | 75.4 | Italy | 75.7 |
| Finland | 75.4 | United Kingdom | 75.8 |
| New Zealand | 75.4 | Finland | 75.7 |
| Austria | 75.3 | New Zealand | 75.4 |
| United States | <mark>75.3</mark> | Czech Republuic | 75.1 |
| Denmark | 75.1 | Ireland | 75.0 |
| Ireland | 74.8 | Spain | 74.9 |
| Portugal | 73.9 | Slovak Republic | 74.4 |
| Czech Republic | 72.2 | Greece | 74.4 |
| Slovak Republic | 71.6 | Portugal | 74.3 |
| Poland | 71.5 | Hungary | 74.3 |
| Korea | 71.1 | Korea | 73.3 |
| Mexico | 70.9 | Poland | 73.2 |
| Hungary | 69.7 | Mexico | 72.8 |
| Turkey | 64.4 | Turkey | 72.0 |



Quality Metrics

- Survival Rates
- Preventive Treatments
- Access and wait times
- Access to new technology and pharmaceuticals



Canada and USA Healthcare Systems

SOA Annual Meeting, 2019, Toronto



A Canadian Health Care System?

Canada has 15 different health care systems

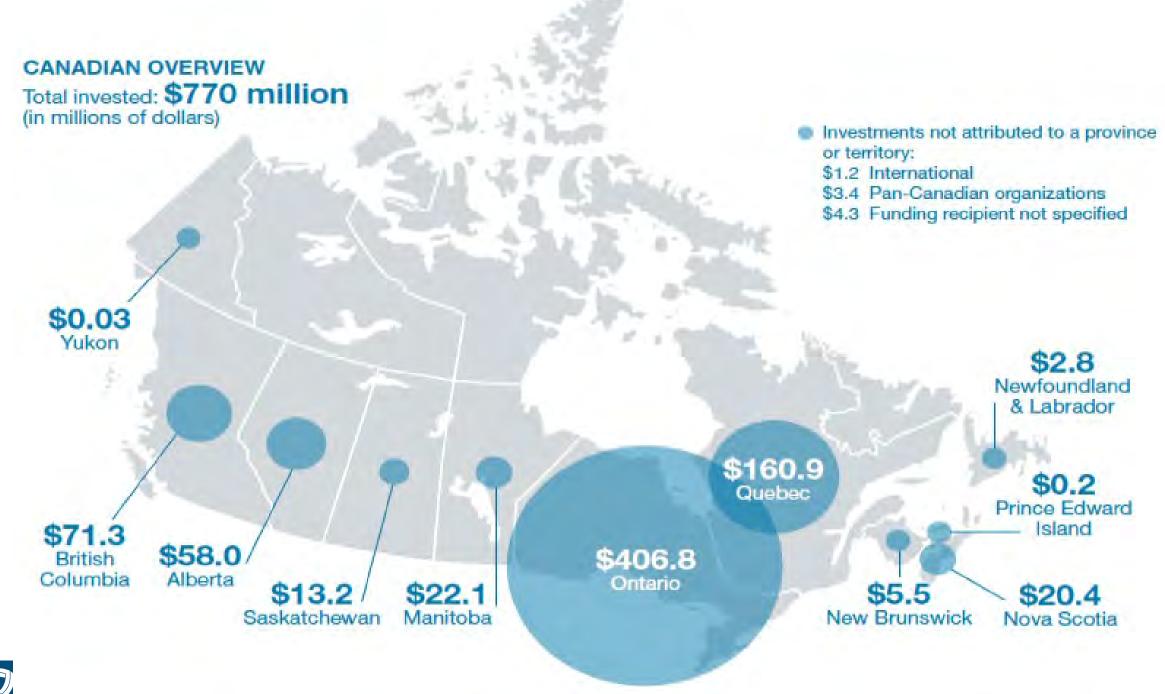




How Healthcare Evolved in Canada

- The Constitution Act of 1867 (formerly called the British North America Act) did not give either the federal or provincial governments responsibility for healthcare, as it was then a minor concern. However, the Act did give the provinces responsibility for regulating hospitals, and the provinces claimed that their general responsibility for local and private matters encompassed healthcare
- The federal government felt that the health of the population fell under the 'Peace, Order and Good Government' part of its responsibilities. This led to several decades of debate over jurisdiction that were not resolved until the 1930s. Eventually, it was decided that the administration and delivery of healthcare was a provincial concern, but that the federal government also had the responsibility of protecting the health and well-being of the population
- Finally, all provinces were required to meet the general guidelines laid out in the federal Canada Health Act of 1984
- The federal government directly administers health to groups such as the military, inmates of federal prisons, and some care to the RCMP and veterans

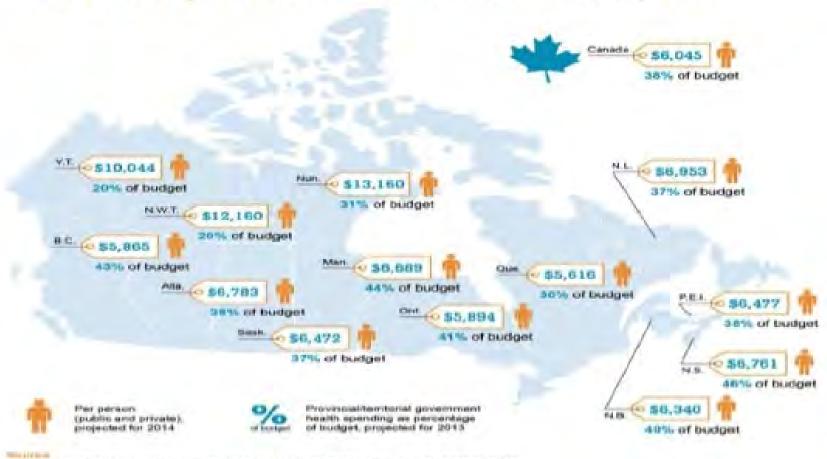






Per Capita Health Spending in Canada in 2014

How do the provinces and territories compare?





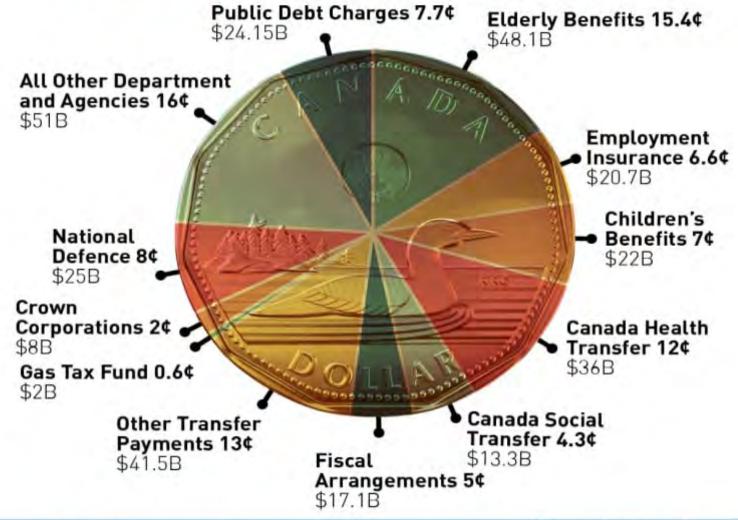


Cost Sharing – 'Universal-esque'

- Taxation − 70%
 - Hospitals
 - Physicians
- Out of pocket /private insurance 30%:
 - Pharmacy
 - LTC
 - Home Care
 - Private Rooms
 - Dental Care

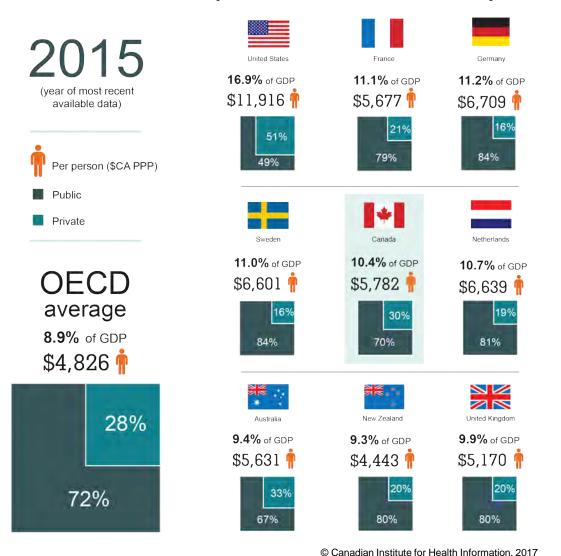


WHERE YOUR TAX DOLLAR GOES 2016-17





How does Canada compare internationally?



Notes

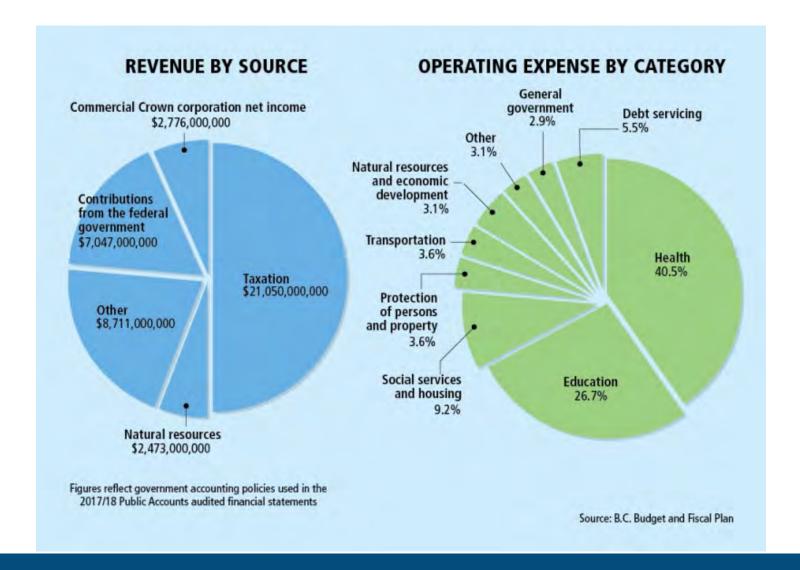
\$CA PPP: Purchasing power parity in Canadian currency. Total current expenditure (capital excluded).

Source

rganisation for Economic Co-operation and Development. OECD Health Statistics 2017, 2017



BC Taxation





Health Care in BC...





• So...

- One big incentive in Canada is to reduce costs for health systems ... which means reducing utilization ... which means trying to keep people healthy so they don't need services
- Whereas providers bill FFS ...



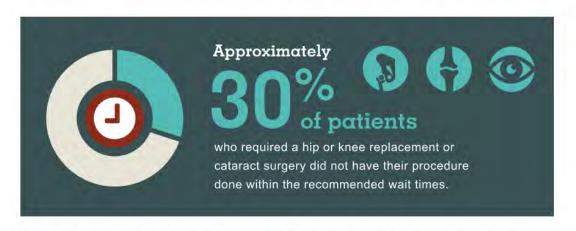
OECD Wait Time Data...

| Wait Times for Common Procedures (Mean Days) | | | | |
|--|----------|-----|------|---------|
| Country/ Province | Cataract | Hip | Knee | Cardiac |
| Britain | 74 | 104 | 110 | 65 |
| Ontario | 95 | 118 | 129 | 29 |
| Nova Scotia | 79 | 154 | 196 | 21 |
| British Columbia | 63 | 112 | 126 | 10 |
| Saskatchewan | 38 | 163 | 168 | 4 |



Wait Times...

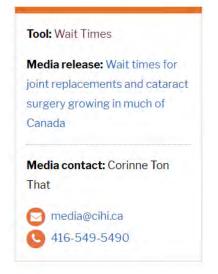
Wait times for priority procedures in Canada



March 28, 2019 — How long do you have to wait for a joint replacement or cataract surgery in Canada? Learn how many patients received care within medically recommended wait times for priority procedures in our Wait Times tool.

Key findings

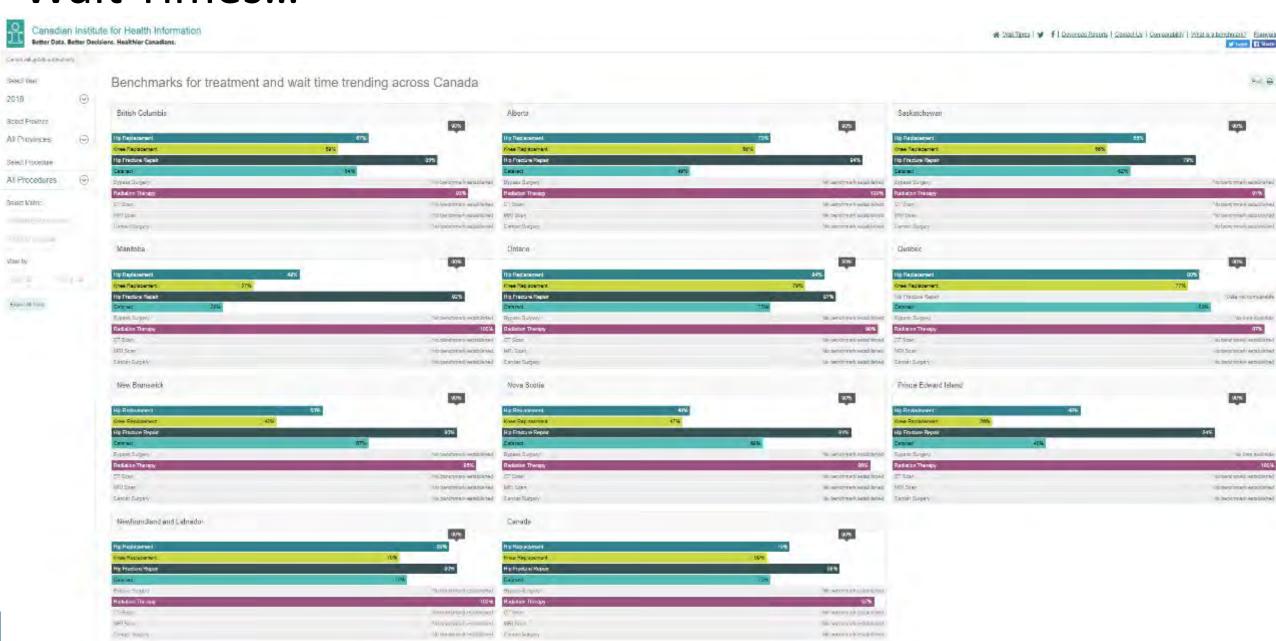
- Approximately 30% of patients who required a hip or knee replacement or cataract surgery did not
 have their procedure done within the recommended wait times.
- Most Canadians continue to receive timely access to urgent procedures such as hip fracture repair and radiation therapy.
- Wait times for cancer surgery are generally stable, with results varying by body site.
- Wait times for diagnostic imaging have generally improved, although wait times for magnetic resonance imaging (MRI) scans continue to be longer than for computed tomography (CT) scans.

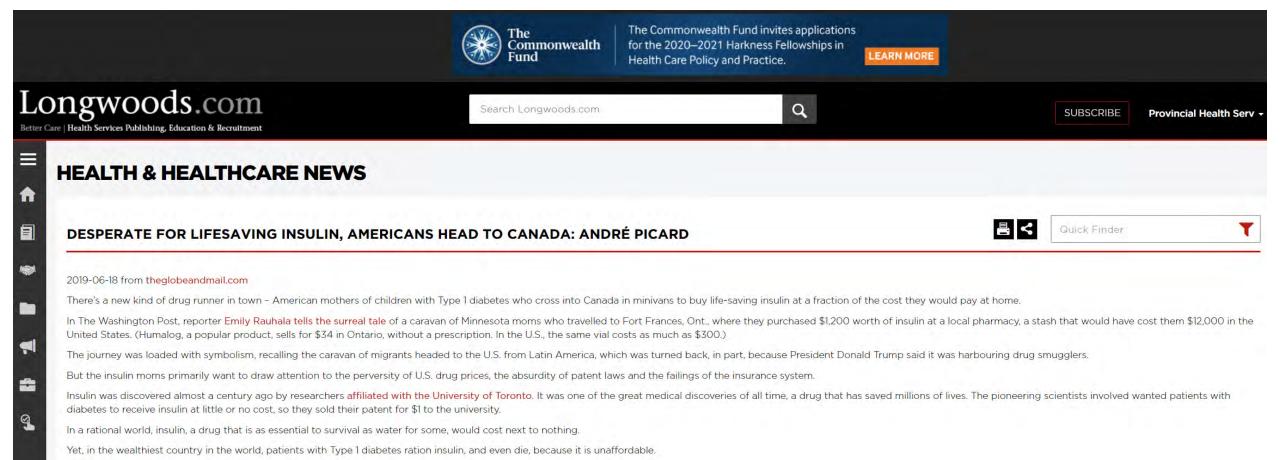






Wait Times...





The reason insulin is cheaper in Canada than in the United States is because Canada regulates drug prices. And Canadians don't die for lack of insulin because our drug-insurance system is a little less ridiculous than the one south of the border.

The solution to the problem is not for Americans to do drug runs to Canada, or for the U.S. to start importing drugs from Canada, as some federal and state legislators are proposing.

The only viable solution is for the U.S. to legislate a cap on drug prices and to provide decent prescription-drug coverage to those who can't otherwise afford their care, as every other Western country does.



Read more here





Q/A



