

# Reading between the lines: A closer look at today's health challenges

Glenda Yeates, President & CEO  
Canadian Institute for Health Information

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# Recent headlines

“New funding won’t fix Vancouver’s health deficit”

“Too many suffer waiting for help”

“Clinics to get public money and charge fees”

“What hospitals do well: Sometimes the bad obscures the good”



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**“In times of change, learners inherit the earth, while the learned find themselves beautifully equipped to deal with a world that no longer exists.”**

**— *Eric Hoffer***

# Some of Today's Challenges . . .

1. First Contact Care
2. Health Human Resources
3. Access
4. Adaptability
5. Sustainability

# First Contact Care

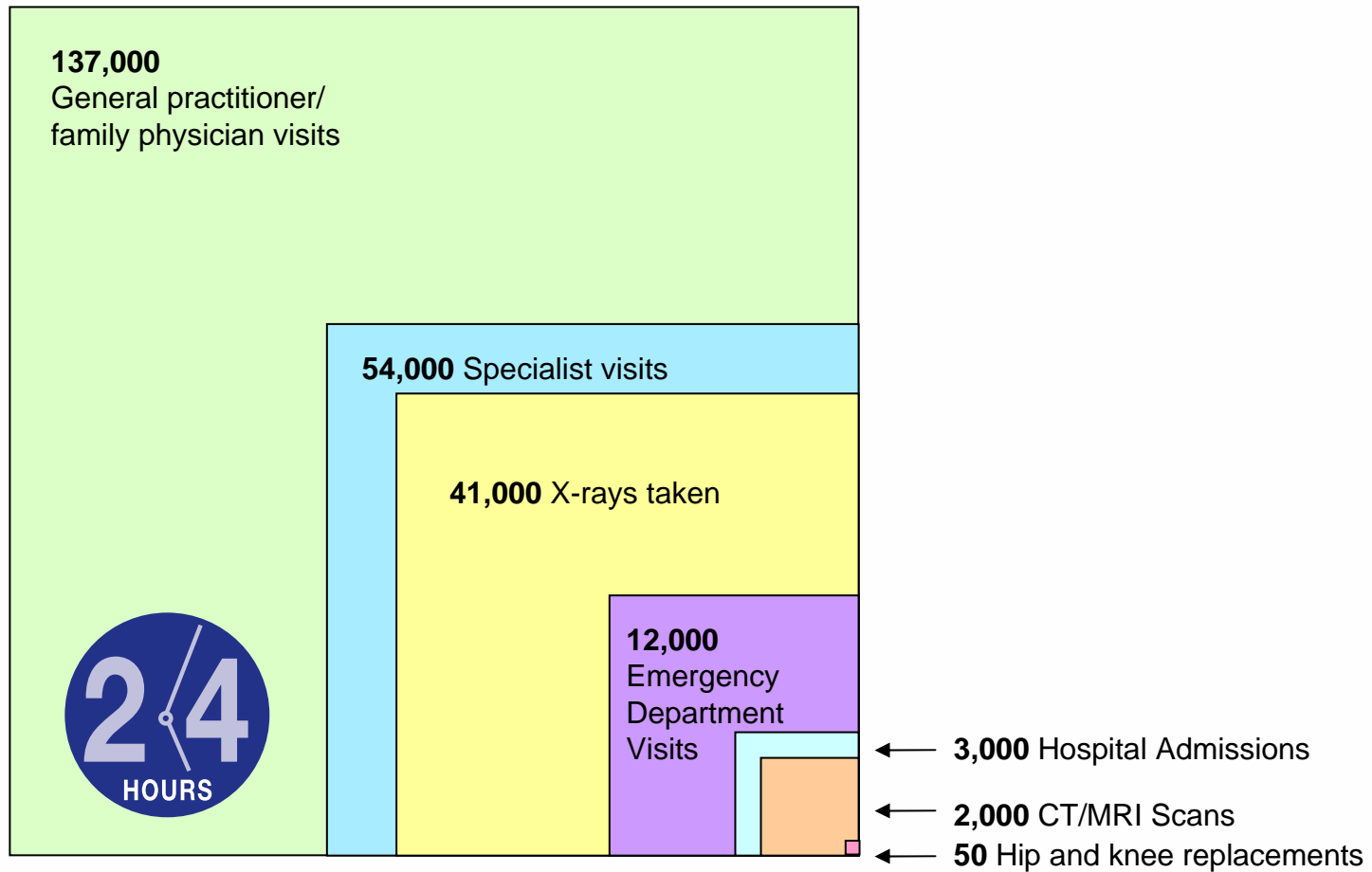
Primary Health Care is the first level contact with the health system to promote health, prevent illness, care for common illnesses, and manage ongoing health problems.



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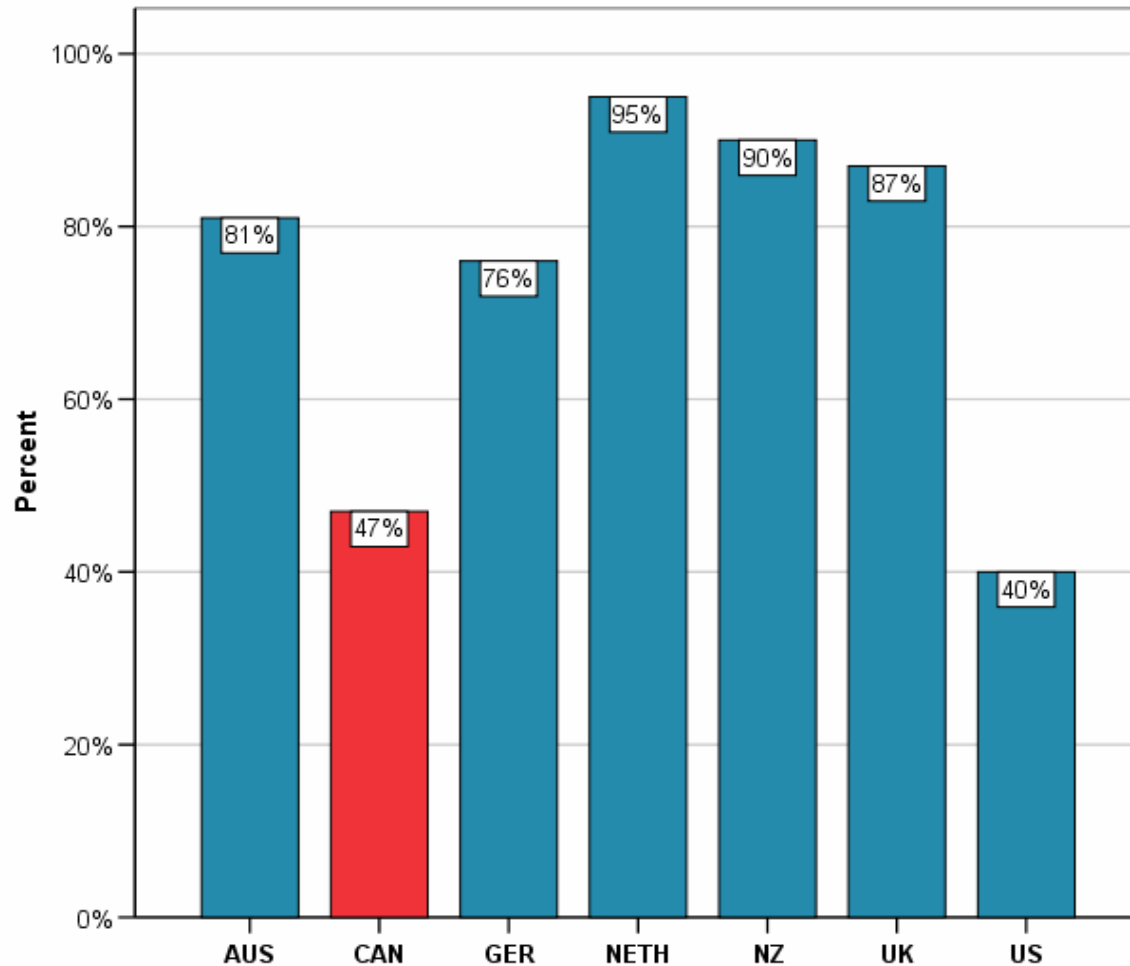
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# Average number of health care services accessed each day, in Ontario (2002–2003)



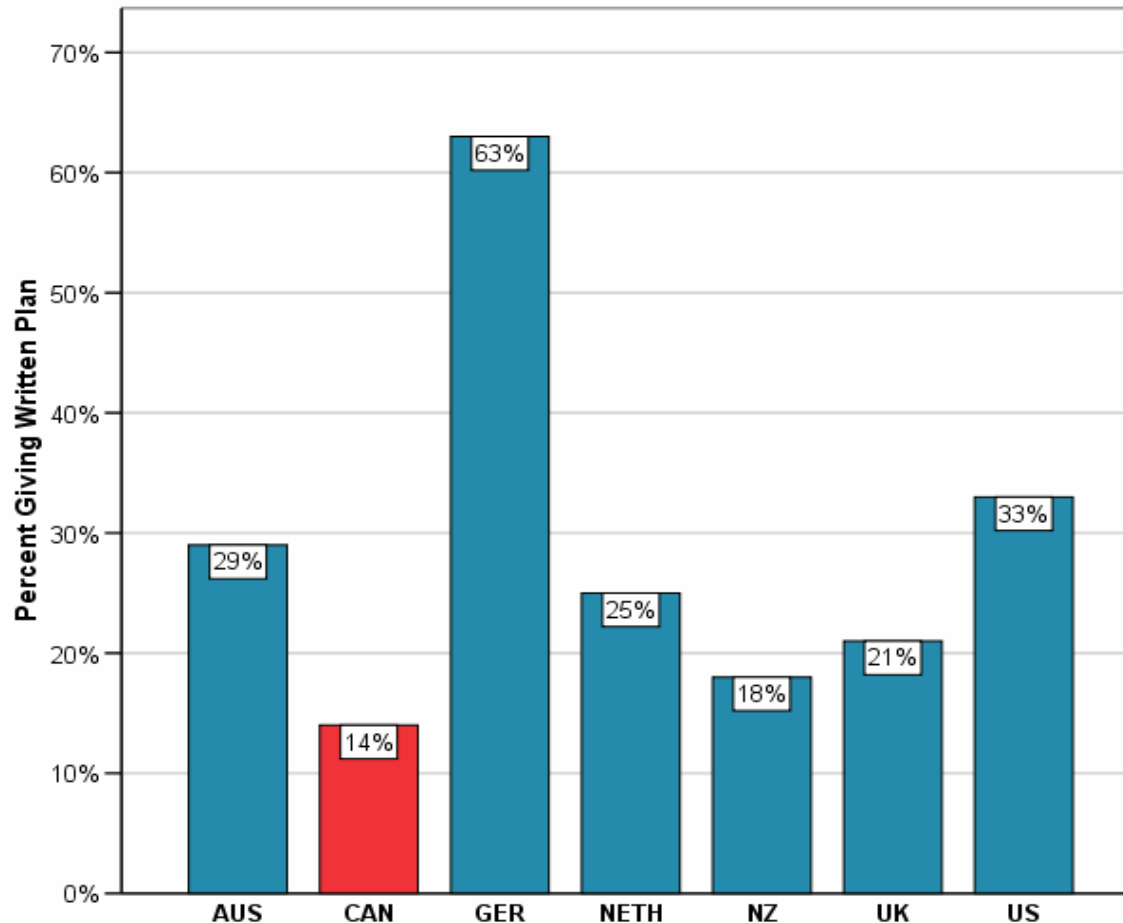
# After-Hours Care

## Doctor's Practice Has Arrangement for Patients' After-Hours Care to See Nurse/Doctor



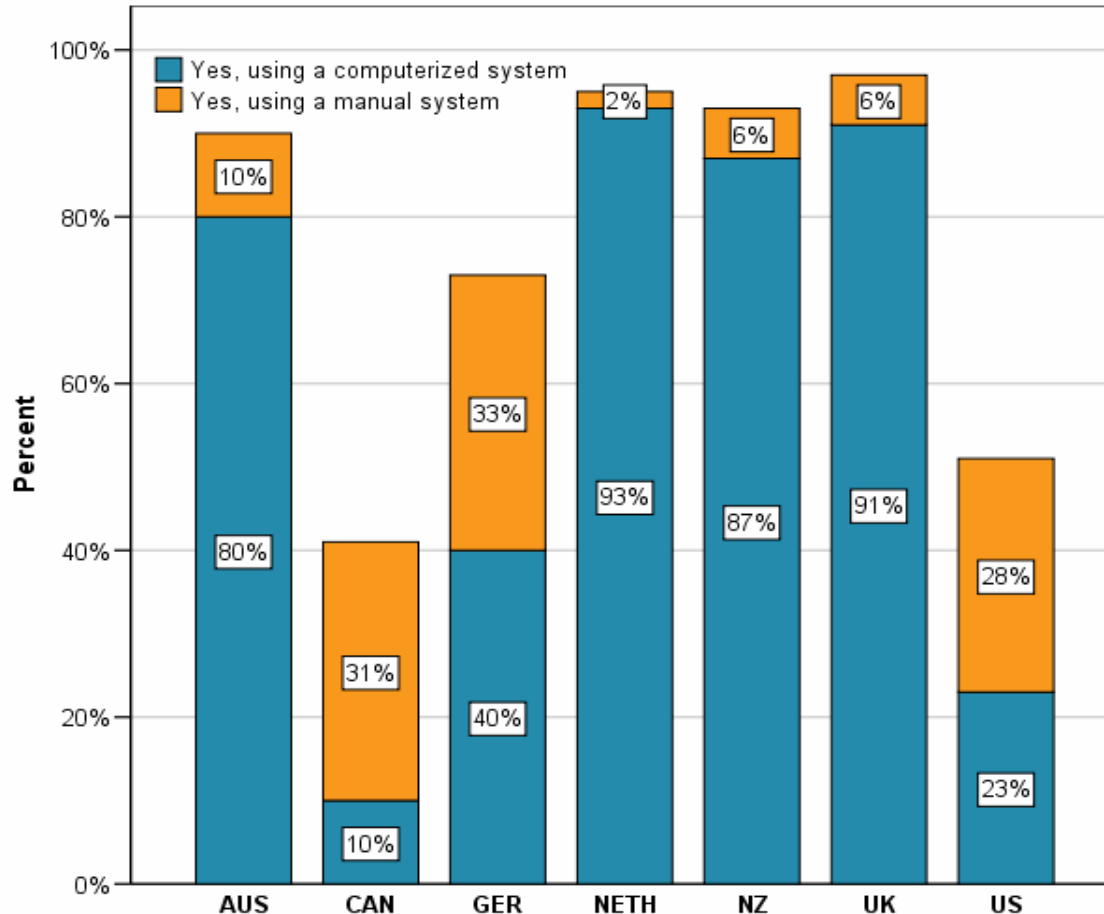
# Care for Chronic Disease Patients

## Doctor Routinely Gives Patients with Chronic Diseases Plan to Manage Care at Home



# Routine Drug Alerts

## Doctor Routinely Receives Alert About Potential Problem with Drug Dose/Interaction



# Health Human Resources

“Health care in the 21<sup>st</sup> century will require a new kind of health professional: someone who can ... lead, manage and work effectively in a team and organisational environment; someone who can practice safe high quality care but also constantly see and create the opportunities for improvement.”

— *Sir Liam Donaldson*



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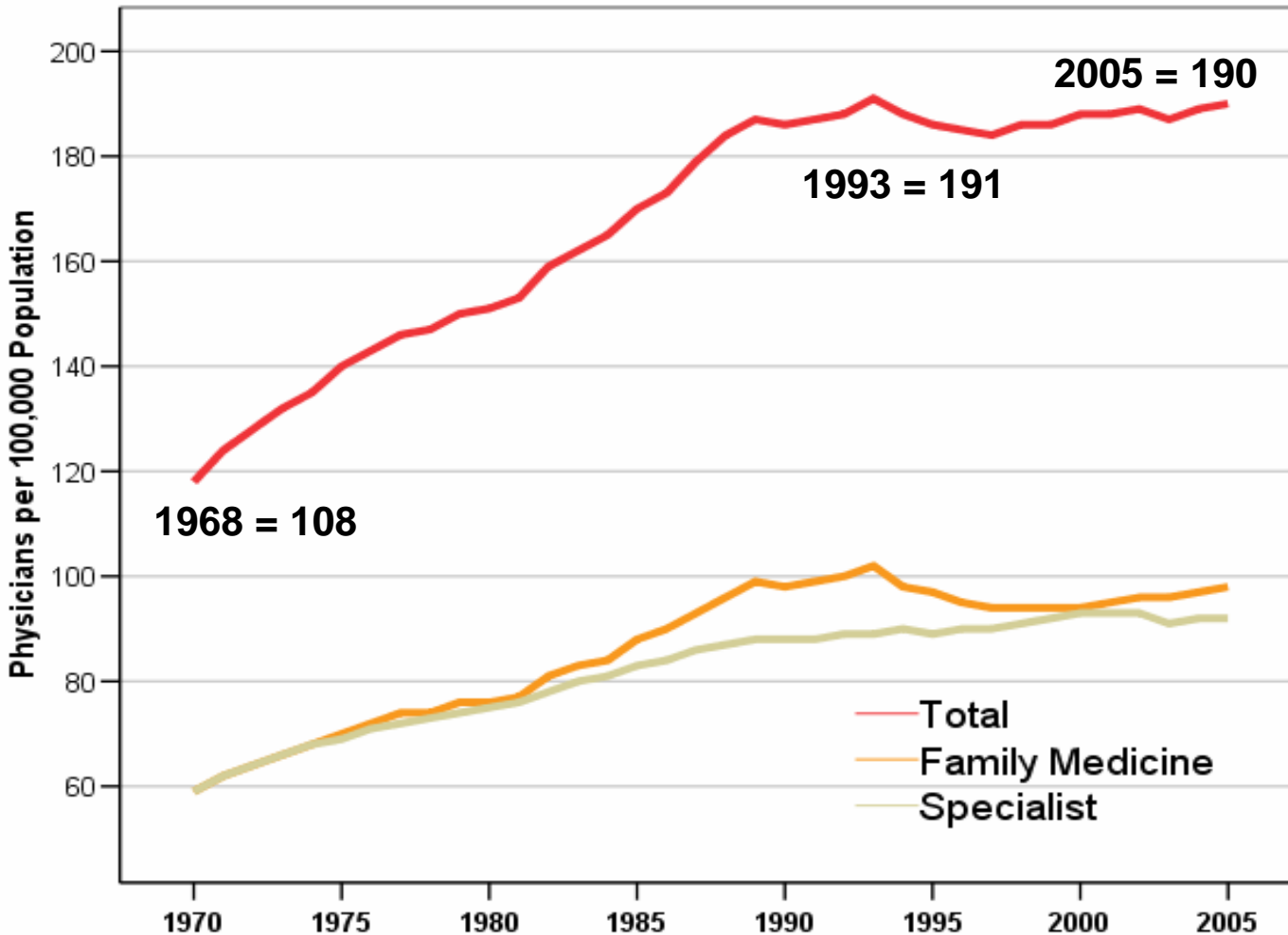
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# Health Human Resources

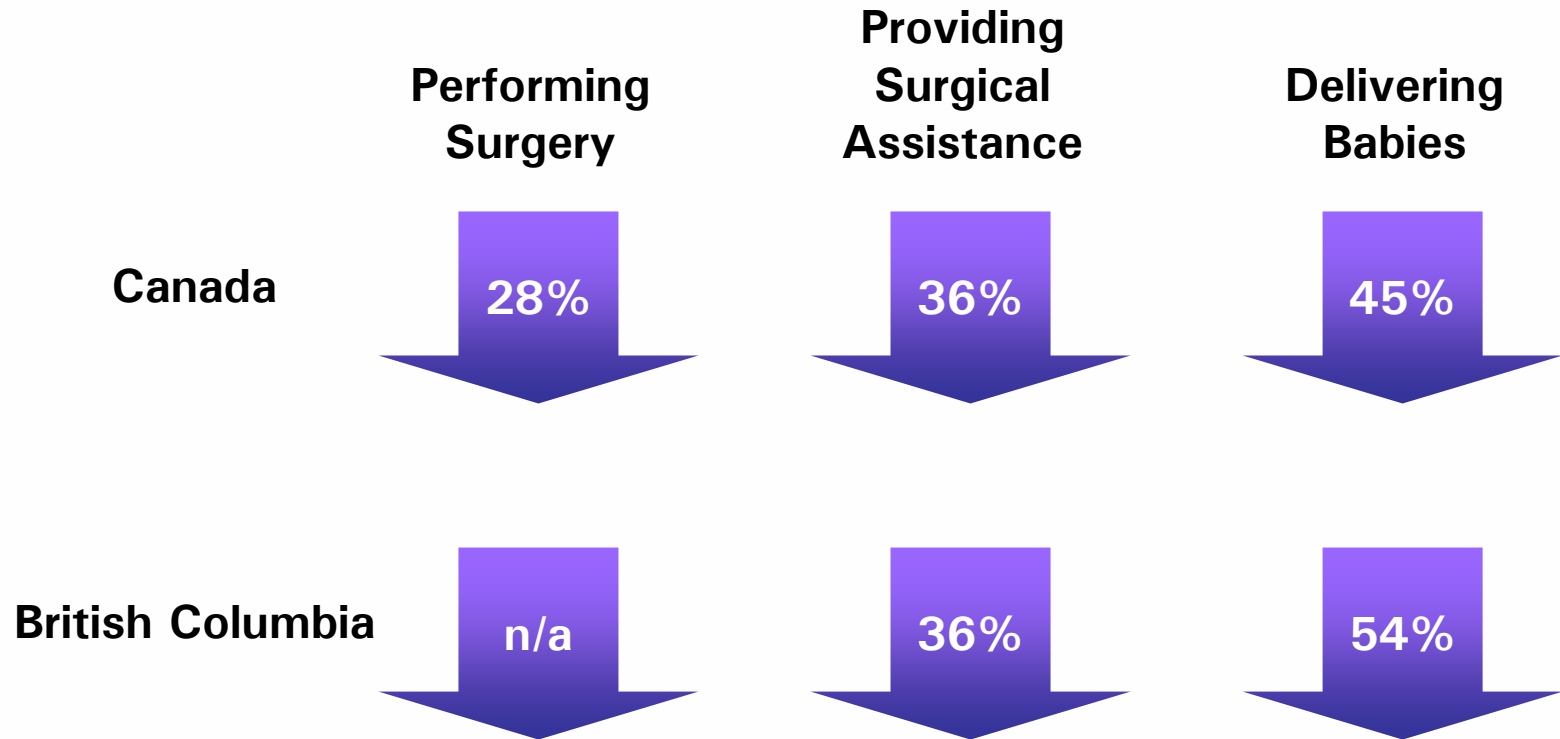
- **Are there enough** providers?
- **Who** are they?
- **Where** are they working
- **What** services are they providing and under what circumstances?

# Physician Trends

## Number of Canadian Physicians per 100,000 Population

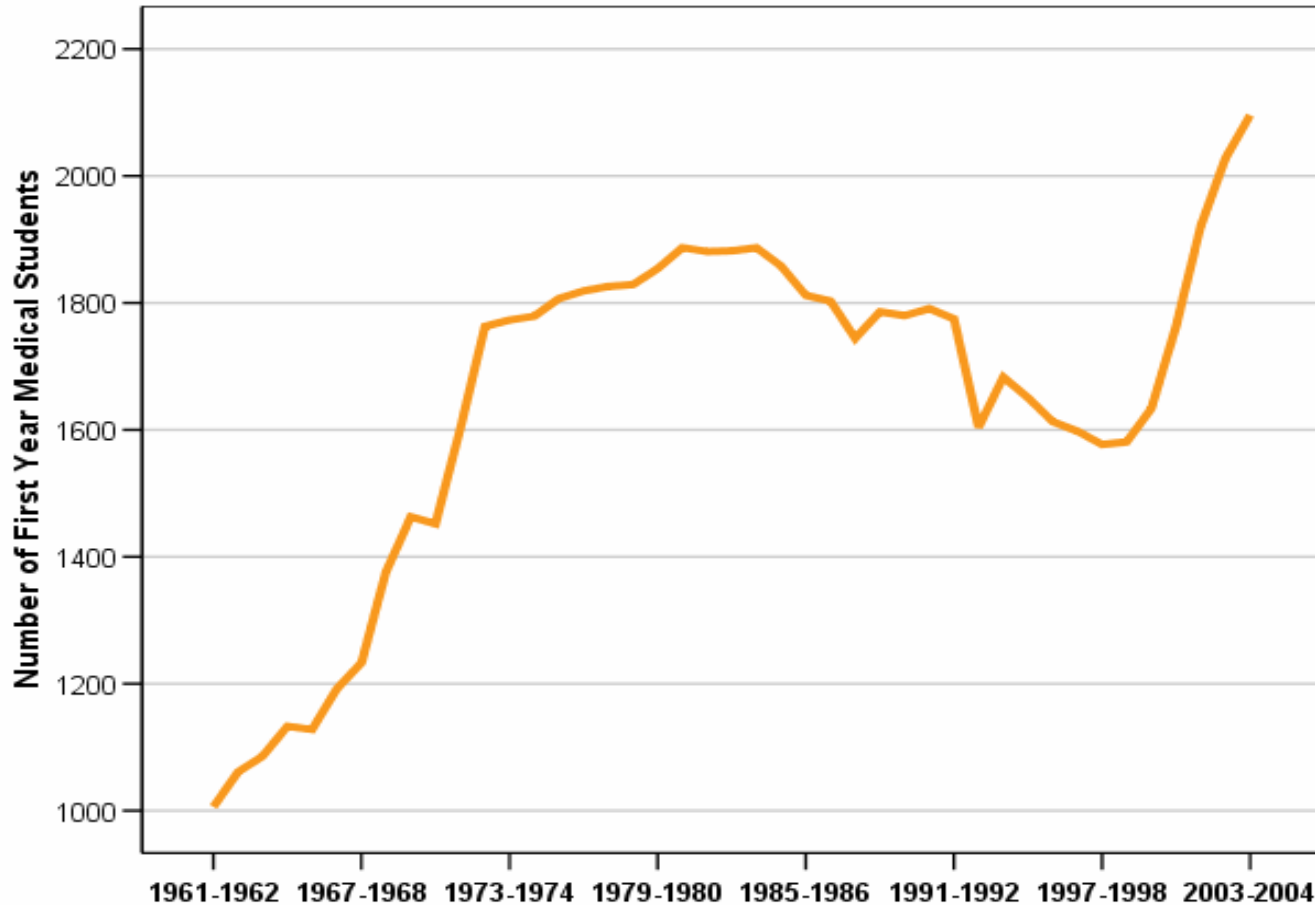


# Changing Practice by Family Practitioners



# Medical Students

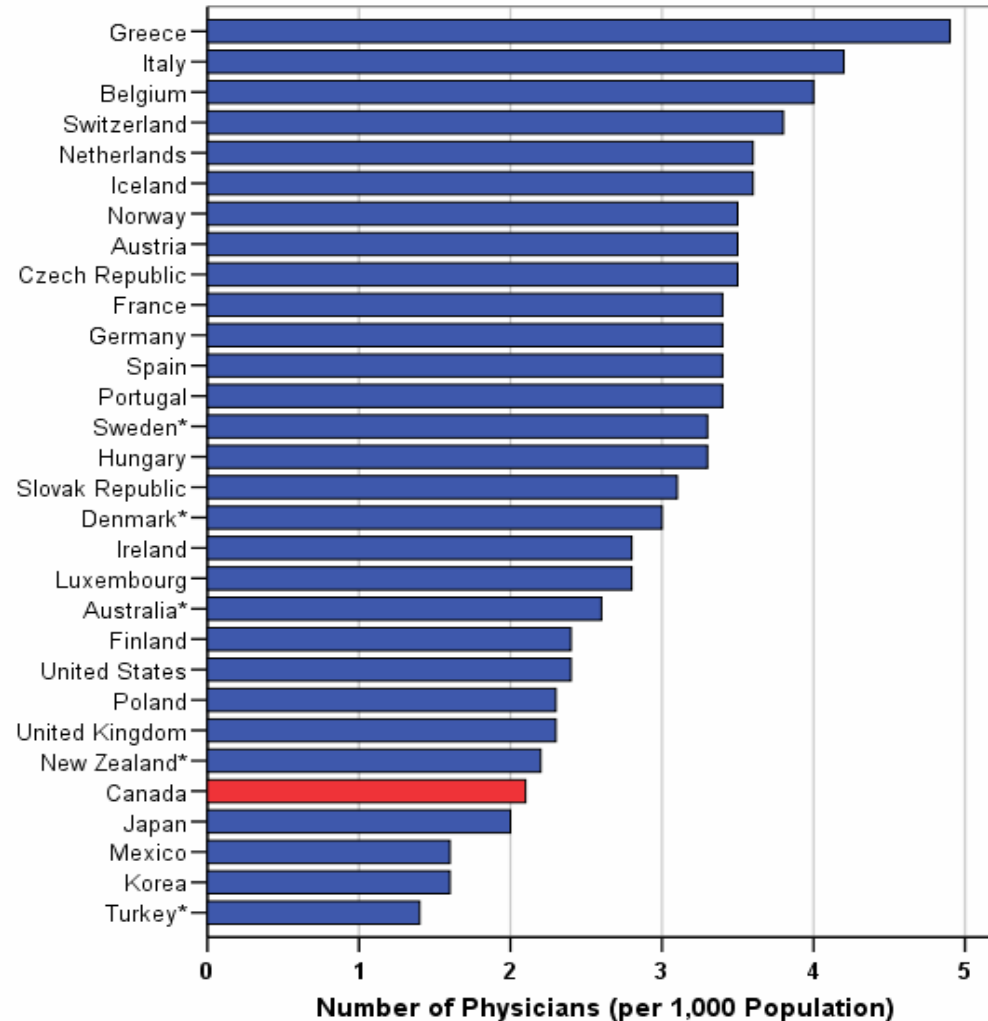
## Number of Students Entering Medical School in Canada (1961 to 2004)



Source: Canadian Medical Education Statistics 2004, Association of Faculties of Medicine of Canada.

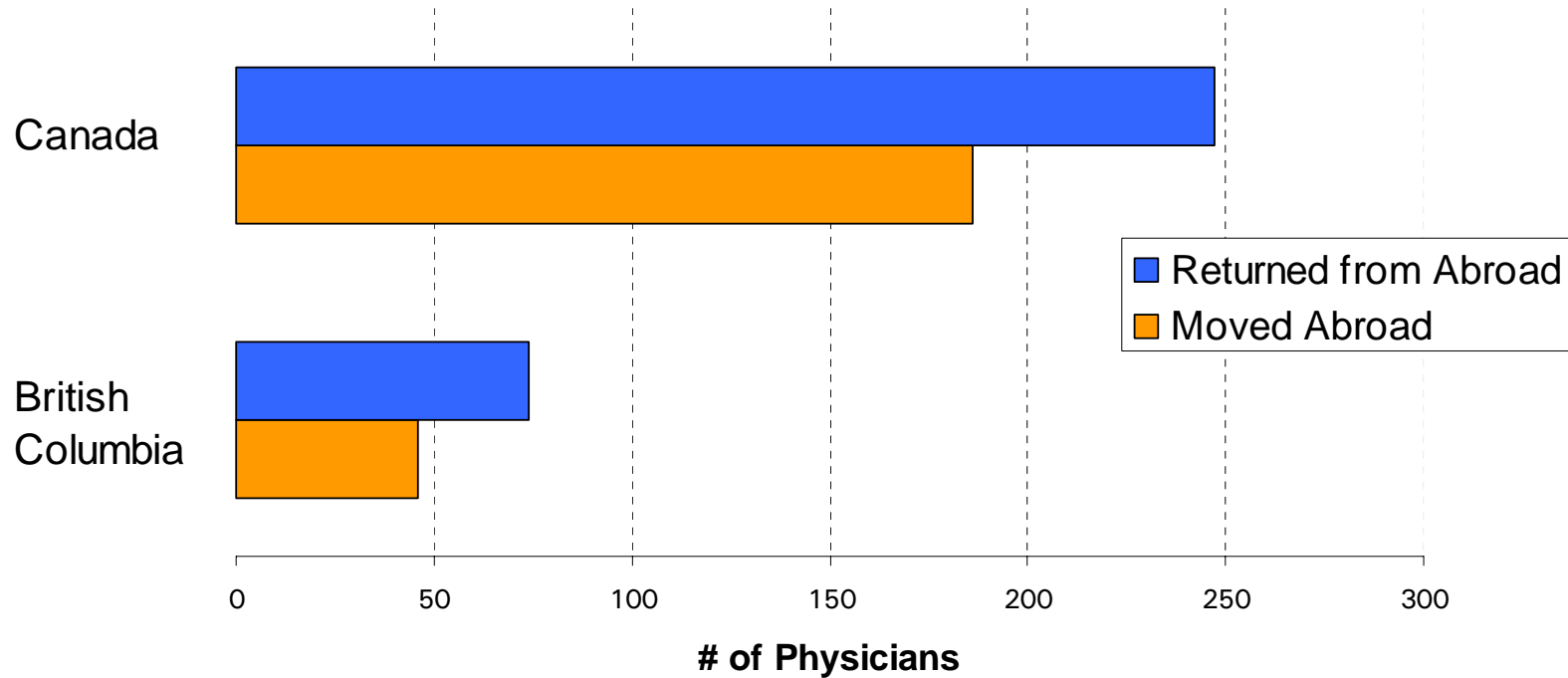
# Number of Physicians by Country

## OECD Physicians per 1,000 Population by Country, 2004



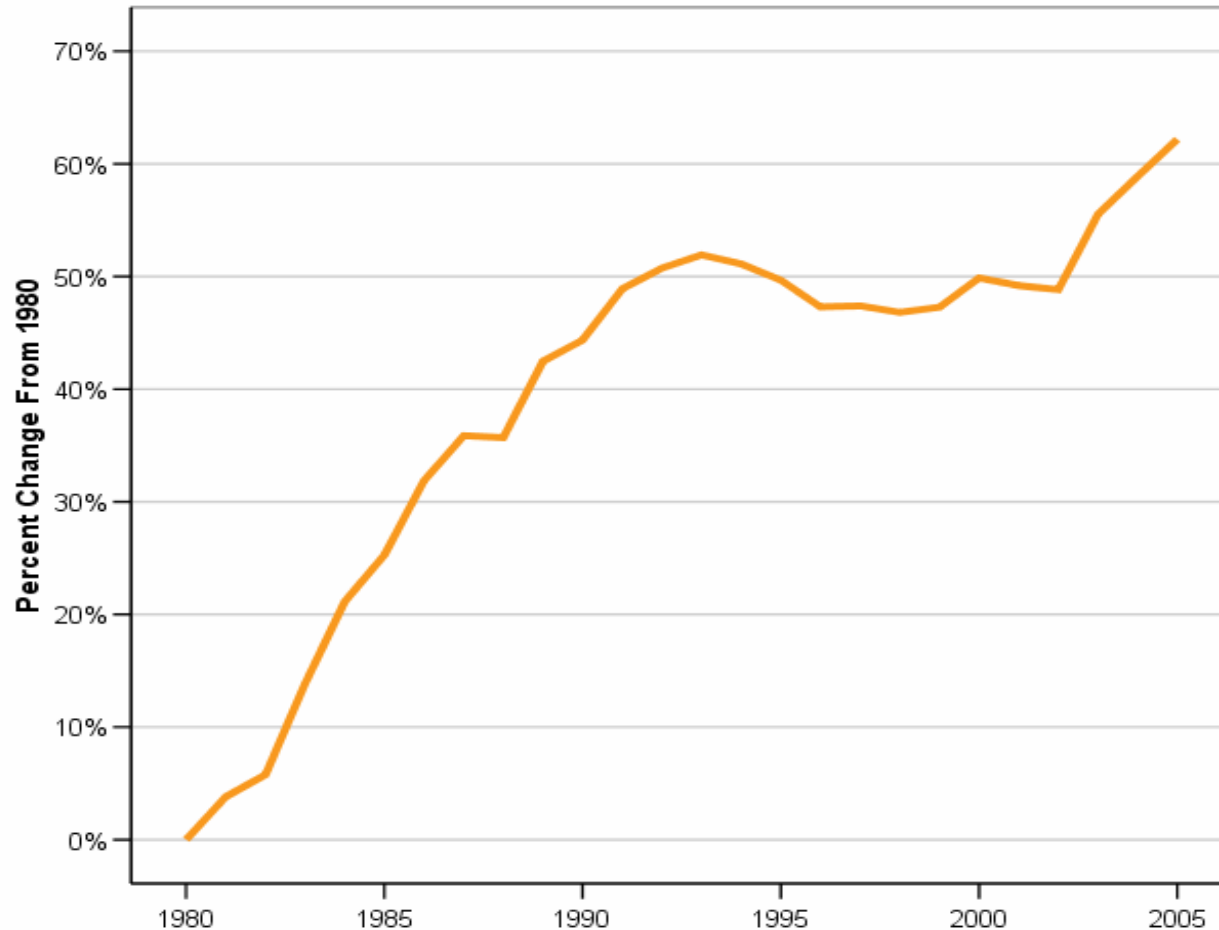
# Migration of Physicians

## International Migration, 2005



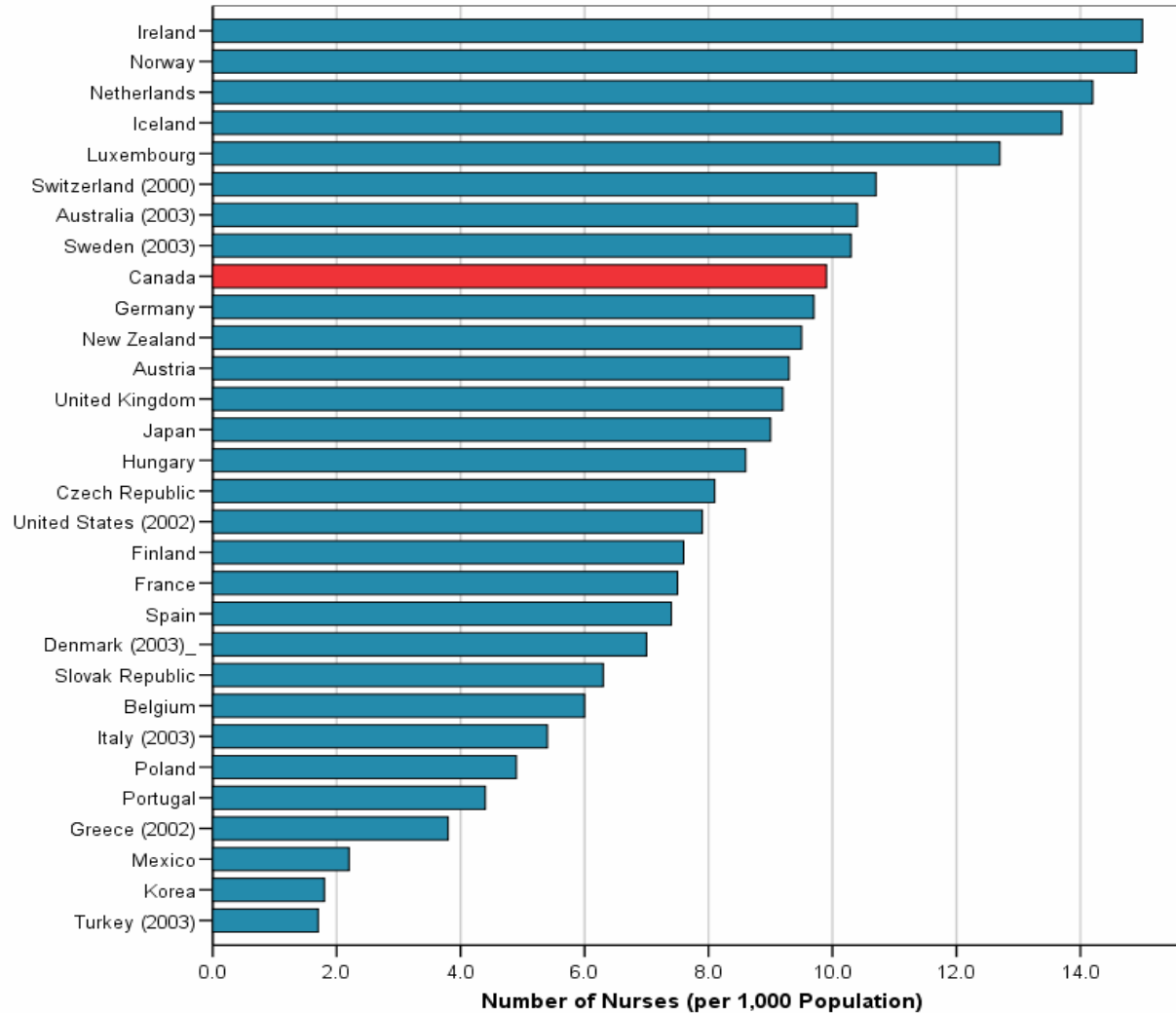
# Registered Nurses

## Percentage Growth in the Number of RNs Employed In Nursing Since 1980, Canada (1980-2005)

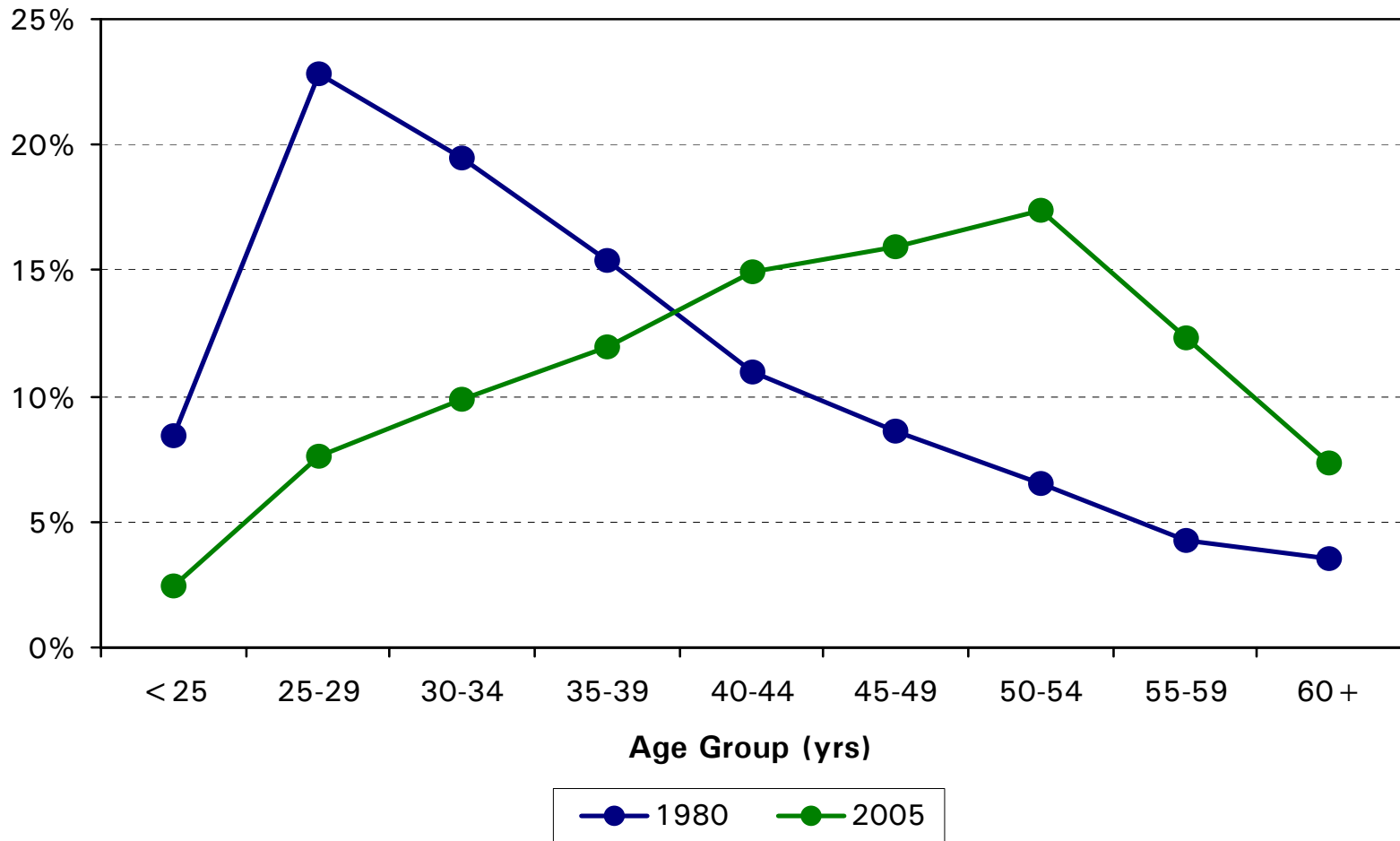


# Number of Practicing Nurses

## Number of Practicing Nurses per 1,000 Population (2004)



# Age Distribution of RNs in Canada, 1980–2005



# Access

“Long wait forces cancer patient to buy operation in land he fled”

“User fees hurt health care”

“MDs question waiting time imbalances”

—*Recent media headlines*



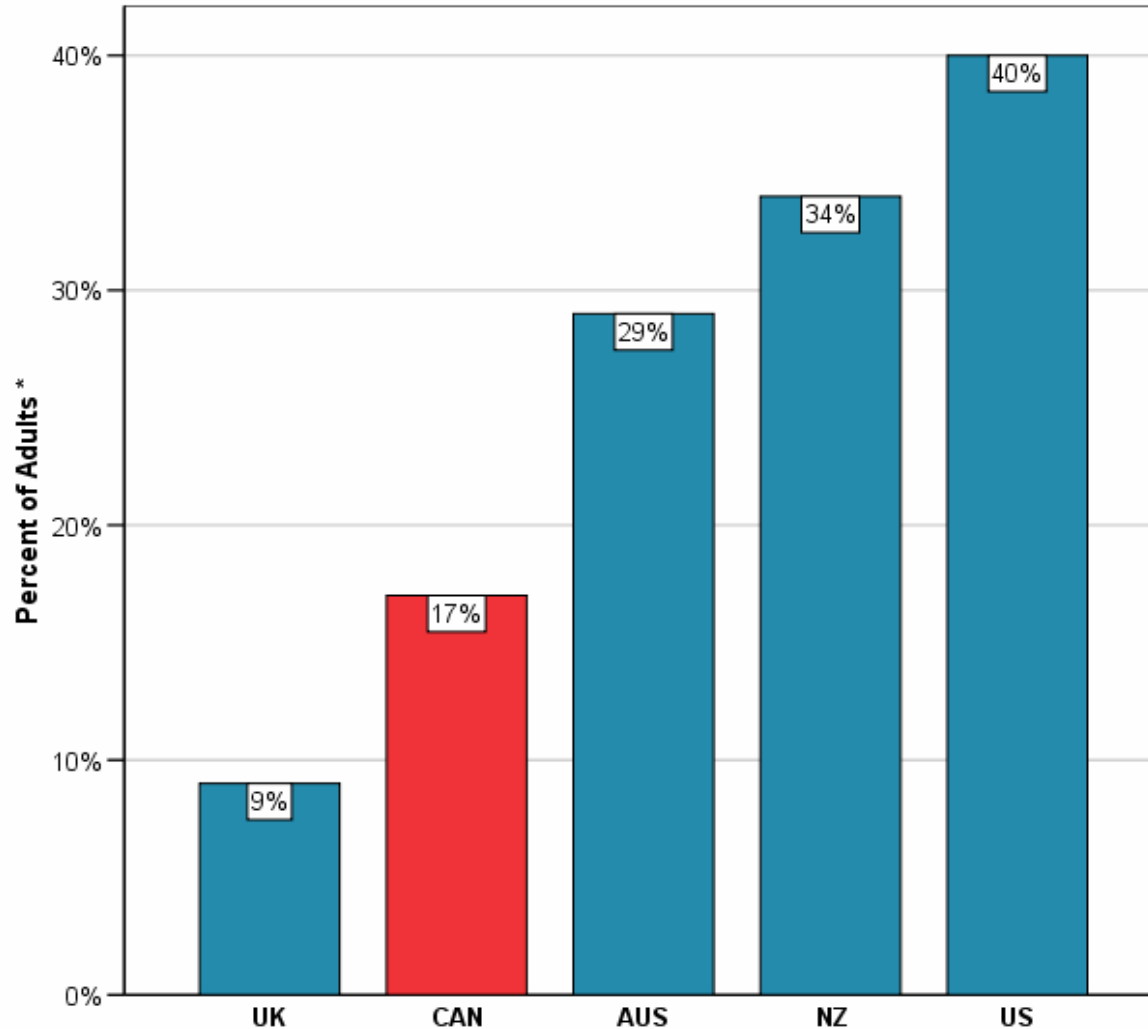
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# “Access”: A Broad Challenge

- Financial barriers
- Timeliness
- Geography
- Type of care or service
- Patient knowledge, awareness
- Cultural appropriateness

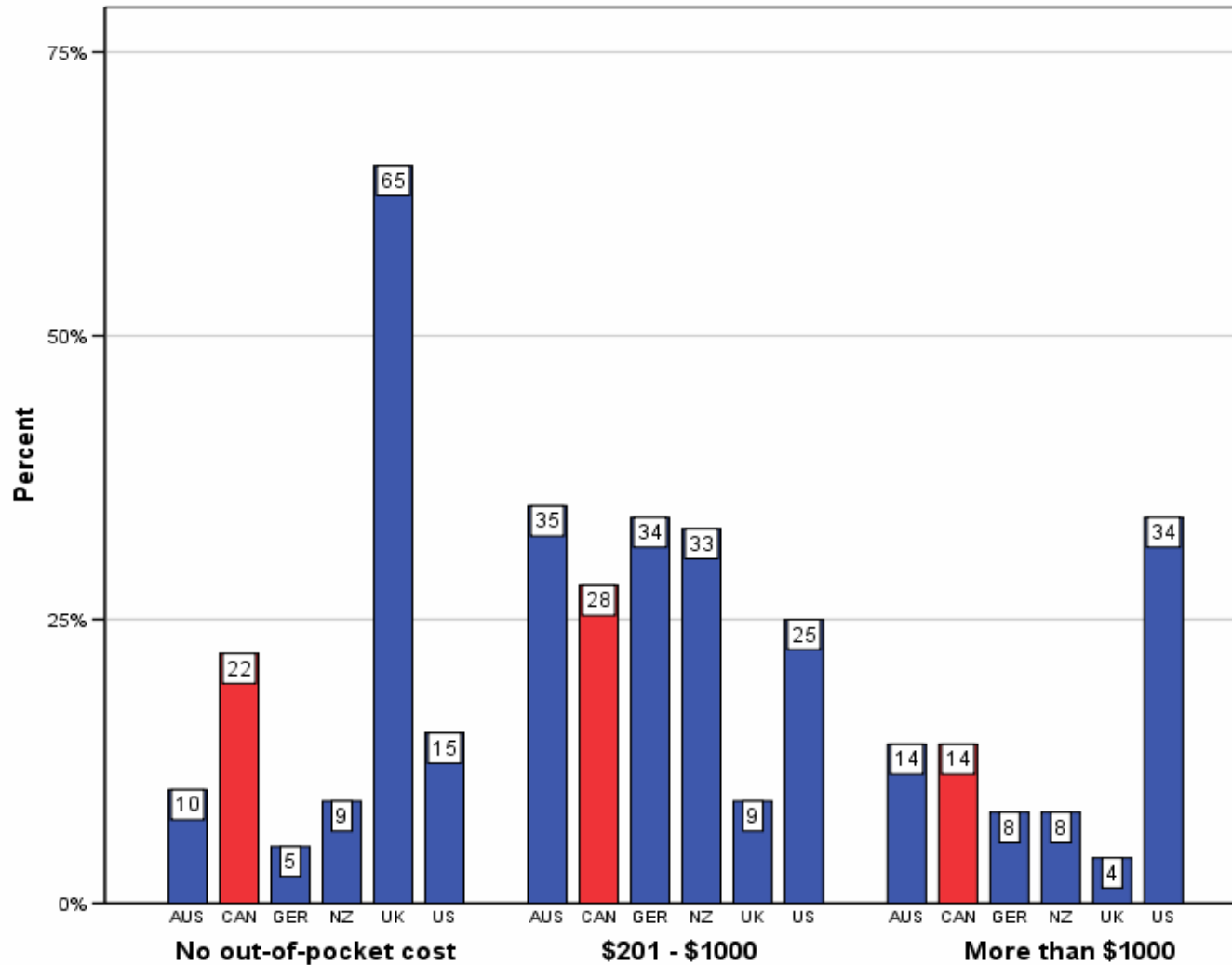
# Access Problems Because of Costs (2004)



Source: Commonwealth Fund National Scorecard on U.S. Health System Performance, 2006.



# Out-of-Pocket Medical Costs (2006)



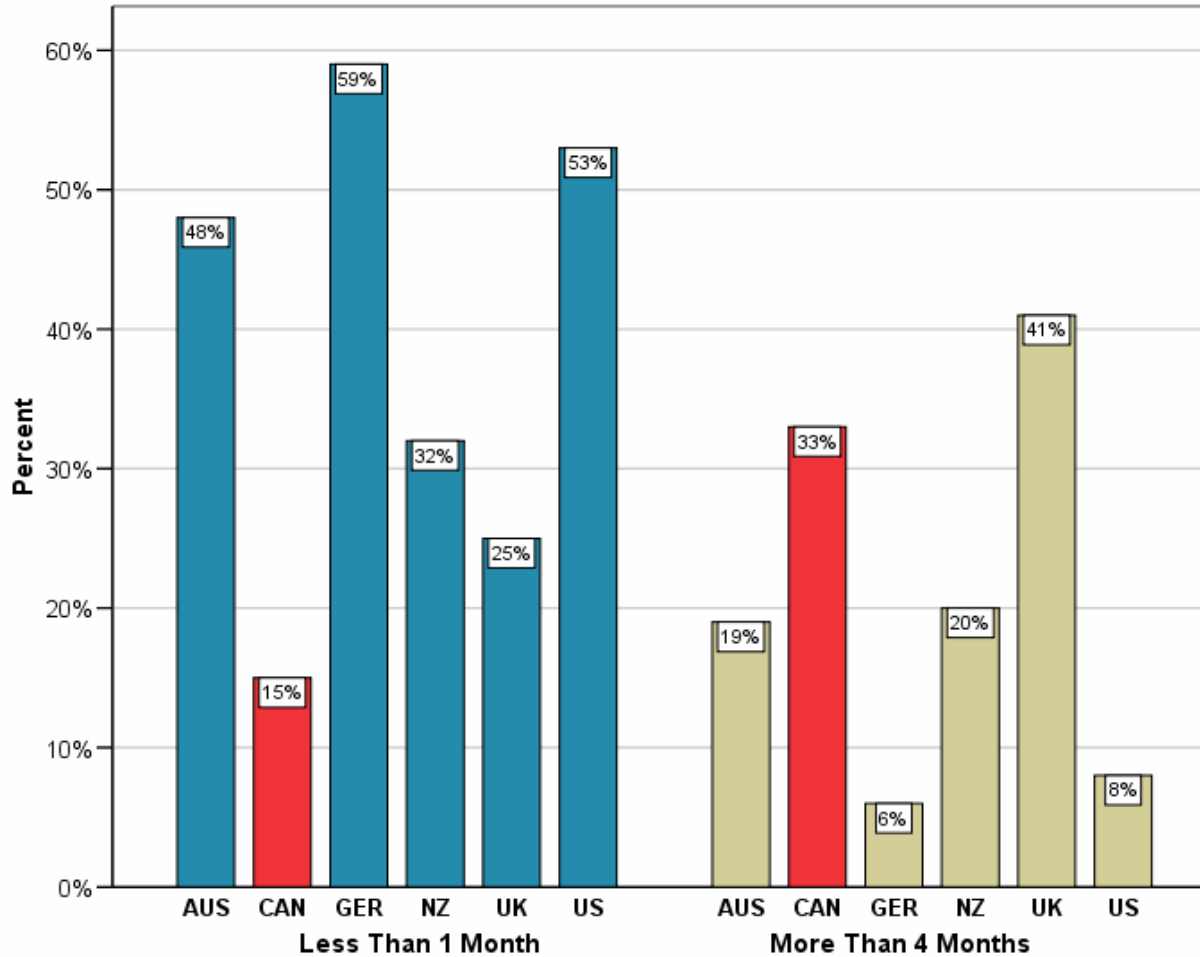
Source: 2005 Commonwealth Fund International Health Policy Survey of Sicker Adults.

Note: All countries converted to U.S. dollars.



# Waiting Time

Waiting Time for Elective or Non-Emergency Surgery



Source: 2006 Commonwealth Fund International Health Policy Survey—Adults with Health Problems.



# No Average Patient, No Average Wait

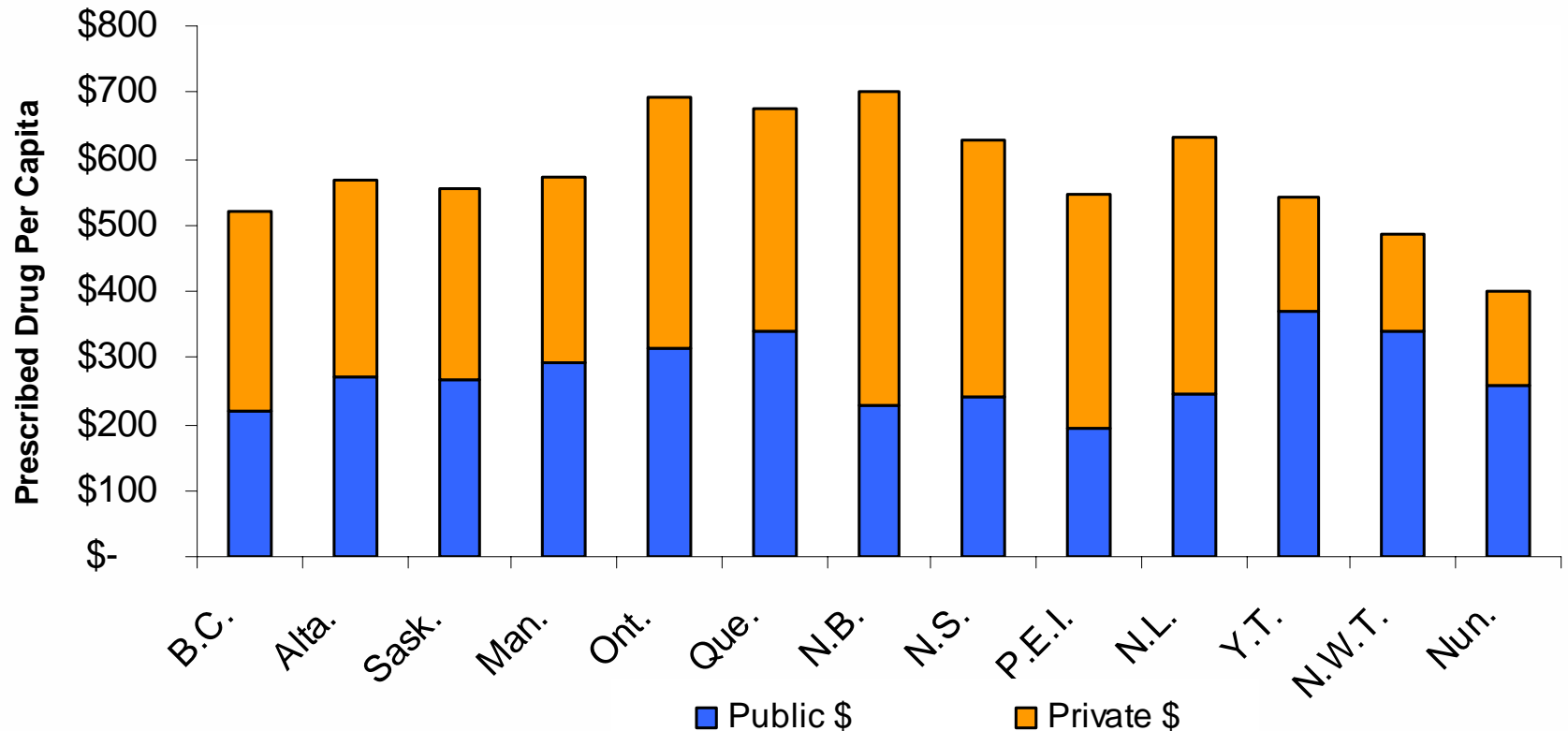
Care Area	Shortest Waits (10%)	50%	Longest Waits (10%)
<b>Hip replacement (specialist to surgery)</b>	<1 month	4.5 months	14 months
<b>Knee replacement (specialist to surgery)</b>	1–2 months	7 months	21 months

Sources: National Ambulatory Care Reporting System, Statistics Canada, Canadian Joint Replacement Registry and Hospital Morbidity Database, CIHI.



# Expenditures on Prescription Drugs

Public/Private Prescribed Drug Expenditures Per Capita 2005<sup>f</sup>



# Closer Look at Expenditure on Prescription Drugs—Examples

## Prescribed Drug Expenditures Per Capita 2005

	Public Expenditure	Private Expenditure	Total
<b>CANADA</b>	\$295	\$346	\$640
<b>B.C.</b>	\$219	\$302	\$521
<b>N.B.</b>	\$226	\$475	\$702

# Adaptability

“It is not the strongest of the species that survives, nor the most intelligent, but the one most responsive to change.”

— *Charles Darwin*

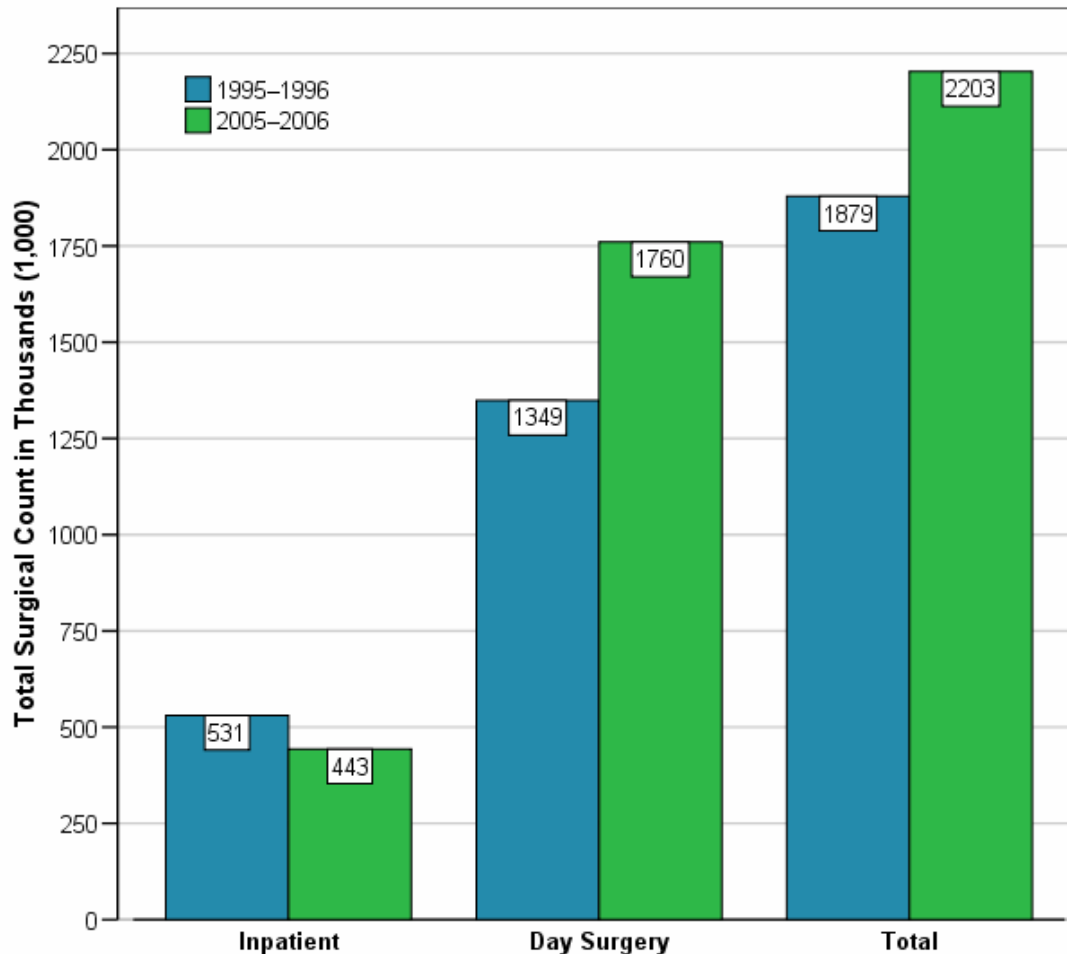


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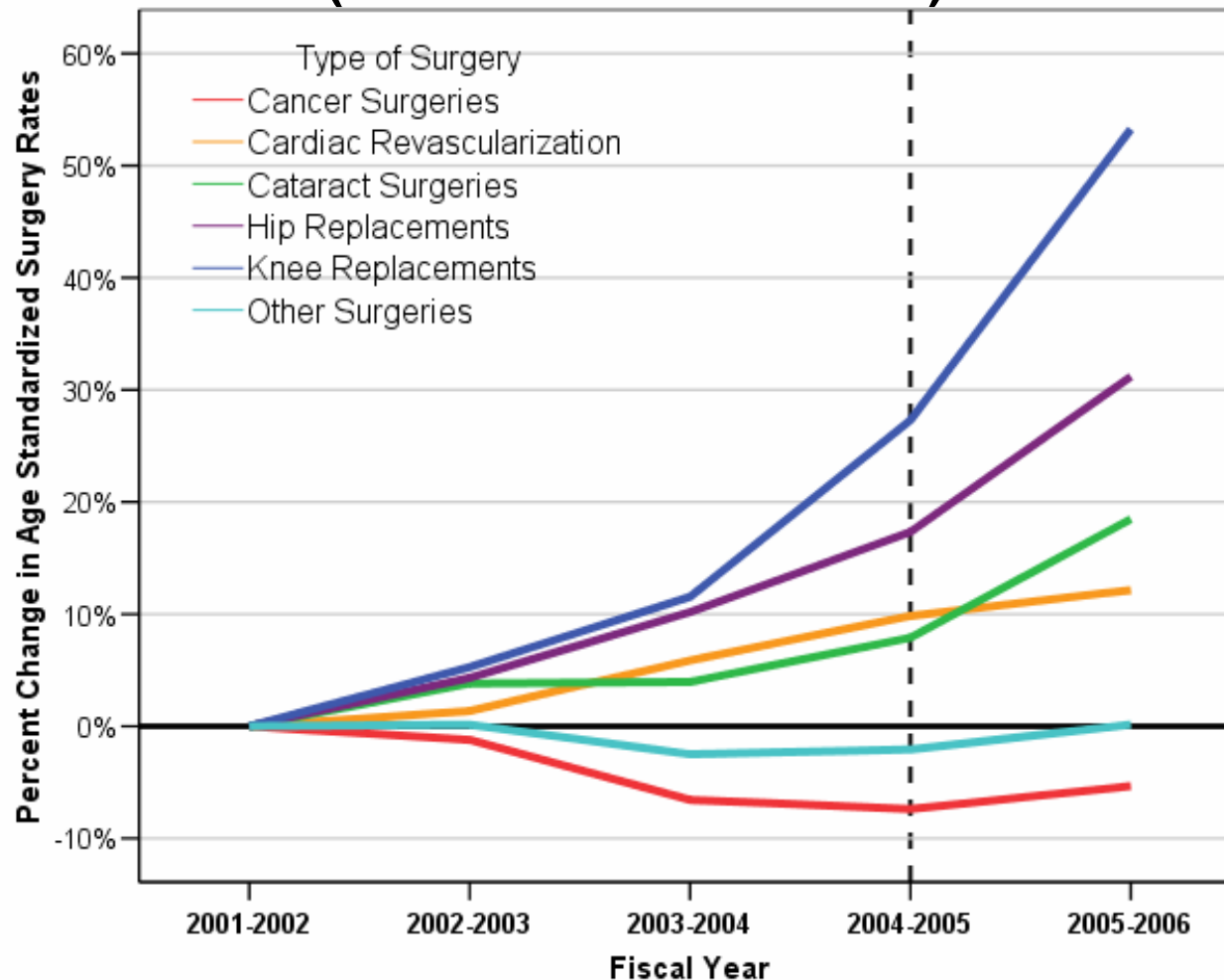
# Shift Toward More Day Surgeries

## Trends in Inpatient and Day Surgery Counts (1995–1996 and 2005–2006)



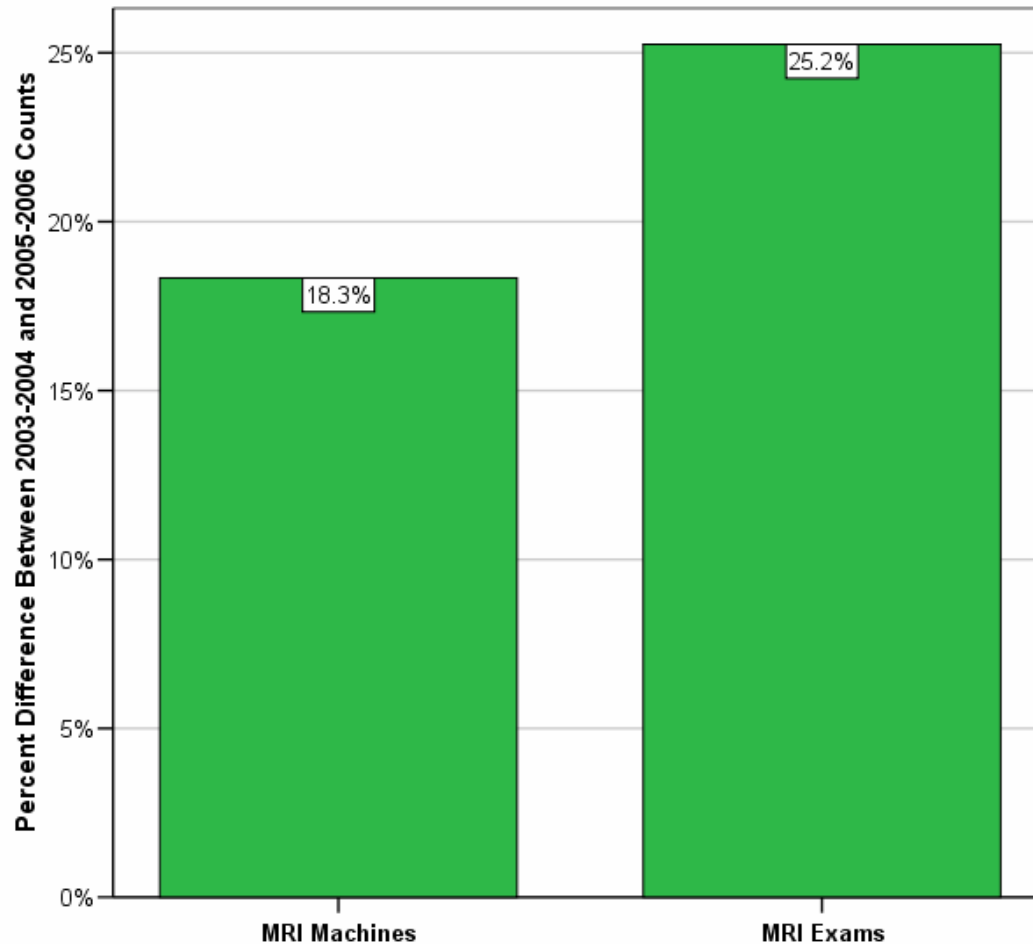
# “Crowding out” in Surgeries?

## Trends in Age Standardized Surgery Rates (2001-2002 to 2005-2006)

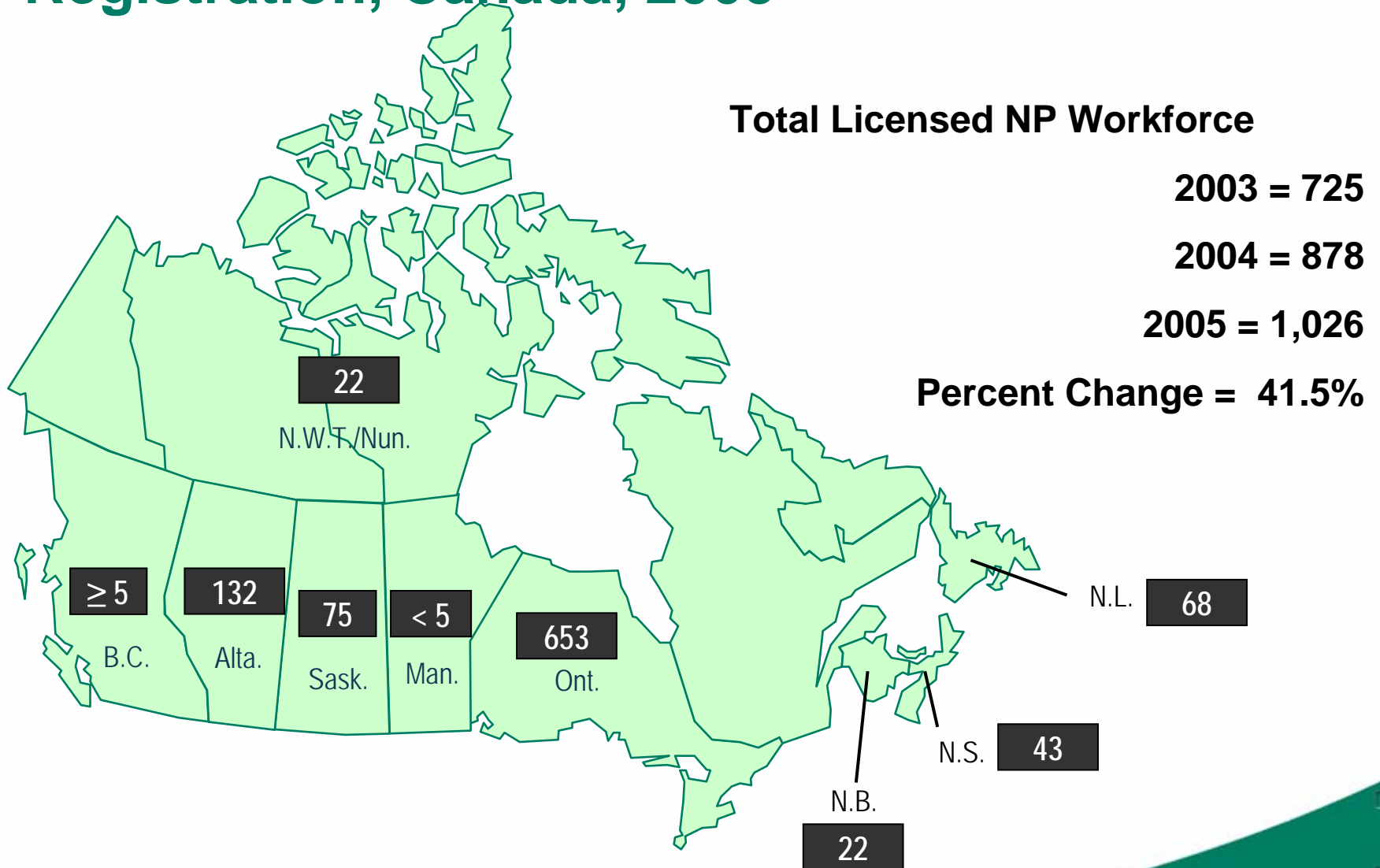


# Medical Imaging Technologies

## Percent Change in the Number of MRI Machines and MRI Exams (2003–2004 to 2005–2006)

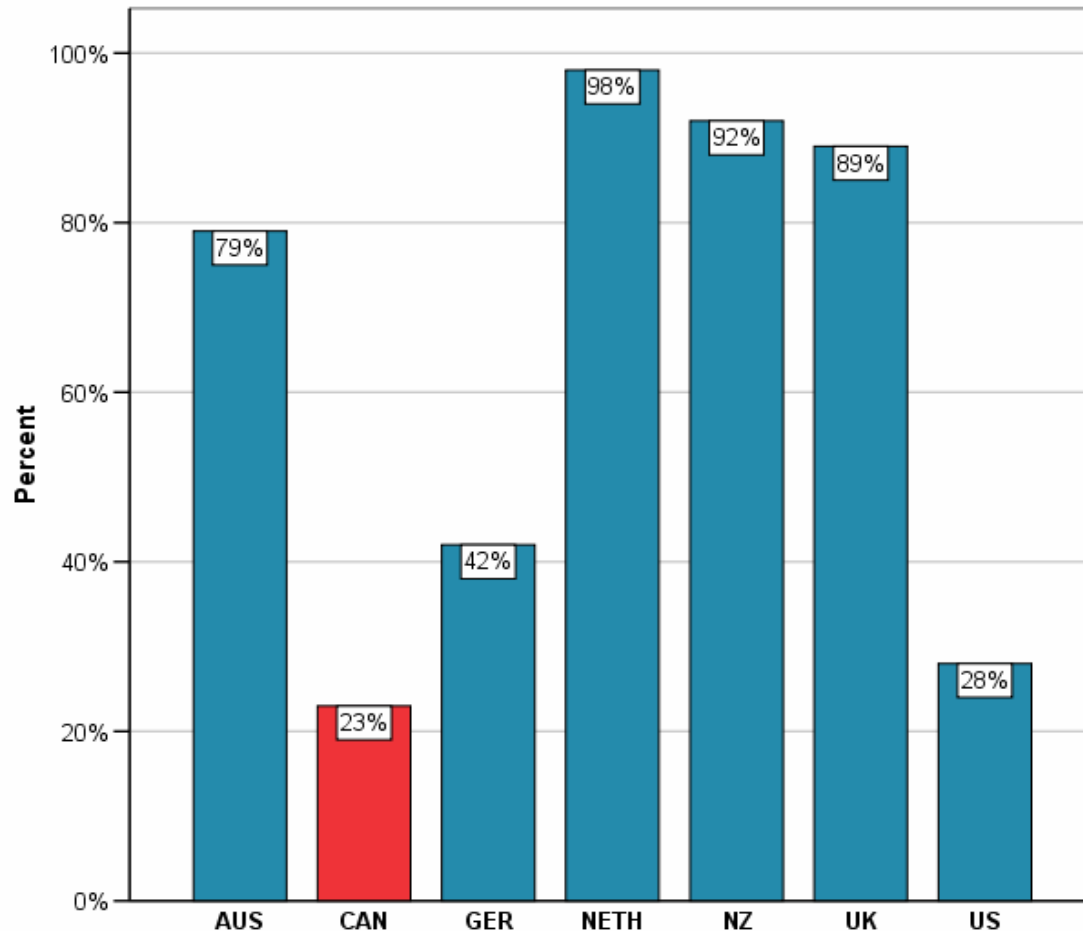


# Number of Licensed NPs by Province/Territory or Registration, Canada, 2005



# Electronic Medical Record

## Primary Care Doctors' Use of Electronic Patient Medical Records, 2006



# Routine Use of Electronic Technology

Percent reporting routine use of:	AUS	CAN	GER	NETH	NZ	UK	US
To order tests	65	8	27	5	62	20	22
To prescribe medication	81	11	59	85	78	55	20
To access patients' test results	76	27	34	78	90	84	48
To access patients' hospital records	12	15	7	11	44	19	40

# Sustainability

“Rapid growth in technology, an ageing population, higher public and patient expectations mean that health care today is not the same health care even 10 years ago and won't be the same as health care in 10 and 20 years time.”

— *Sir Liam Donaldson*



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# Health Spending in Canada

- What are governments and Canadians spending?
- Where is the growth?
- What are we spending it on?
- Whom do we spend it on?
- How does Canada compare?

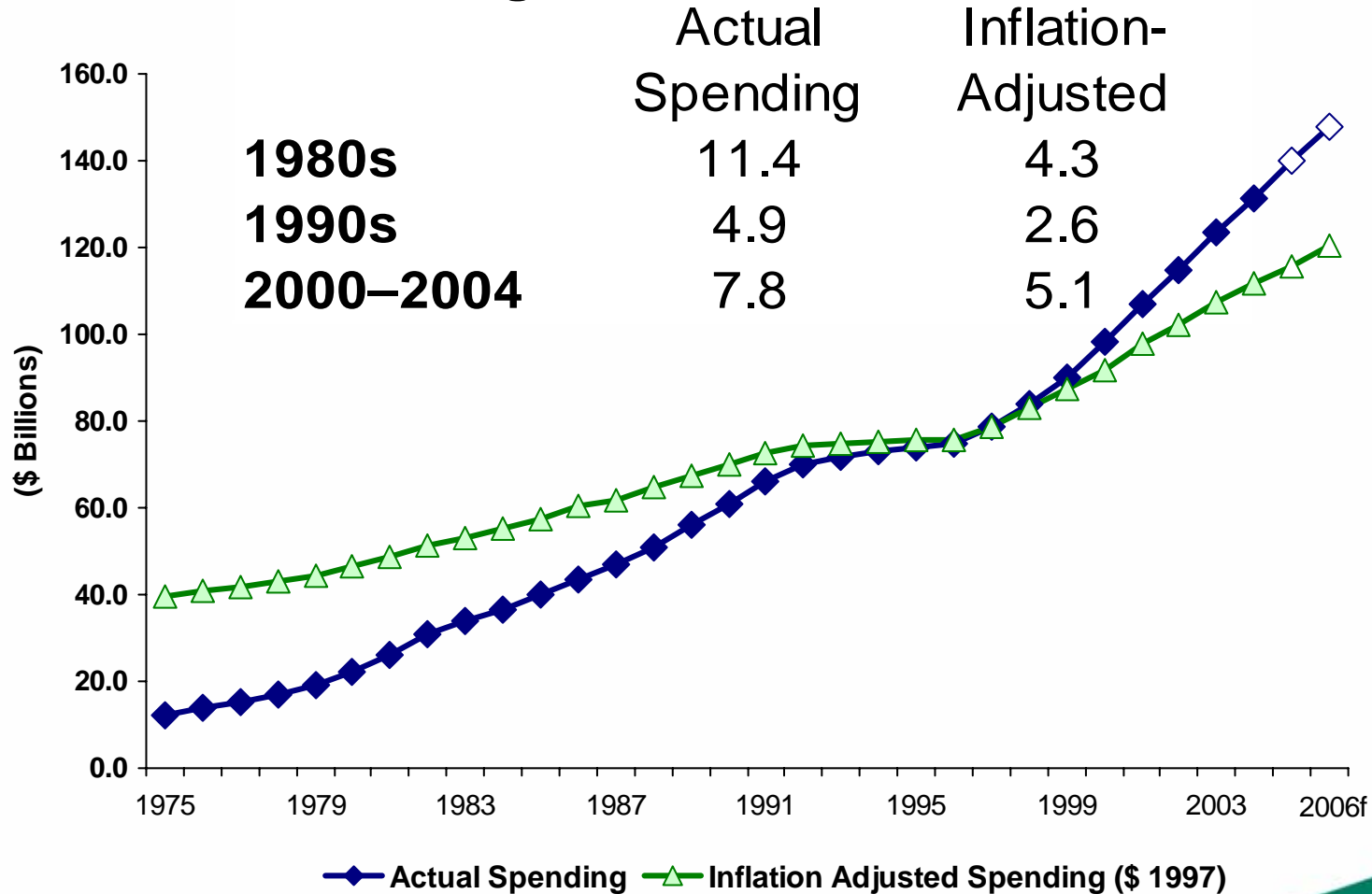
# 2006 Health Care Spending Highlights

Spending on health care by Governments and Canadians is projected to be:

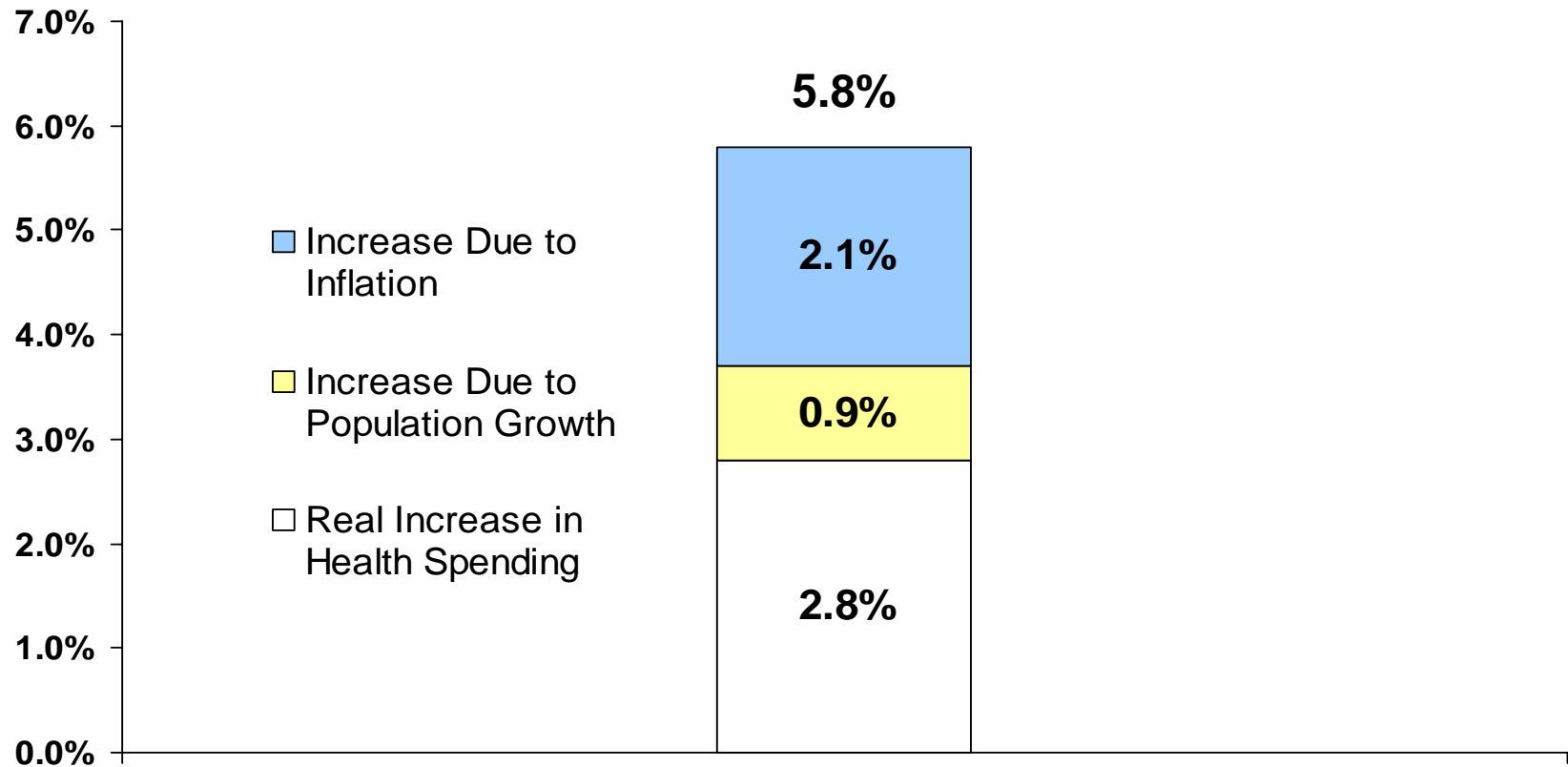
- \$148 billion, a 5.8% increase from 2005
- 10.3% of GDP
- \$4,548 per person

# Health Expenditure Continues to Rise

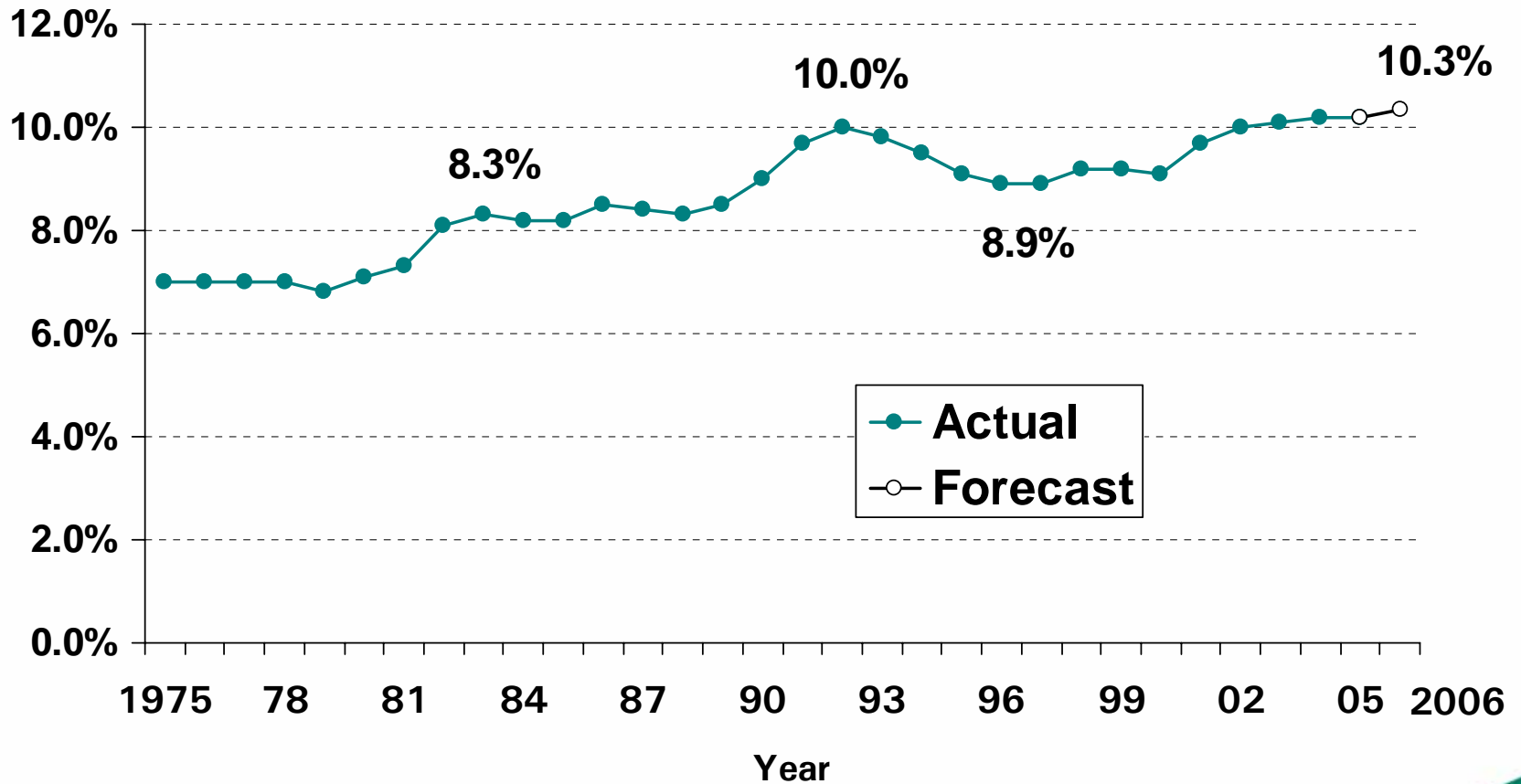
## Average Annual Growth Rates



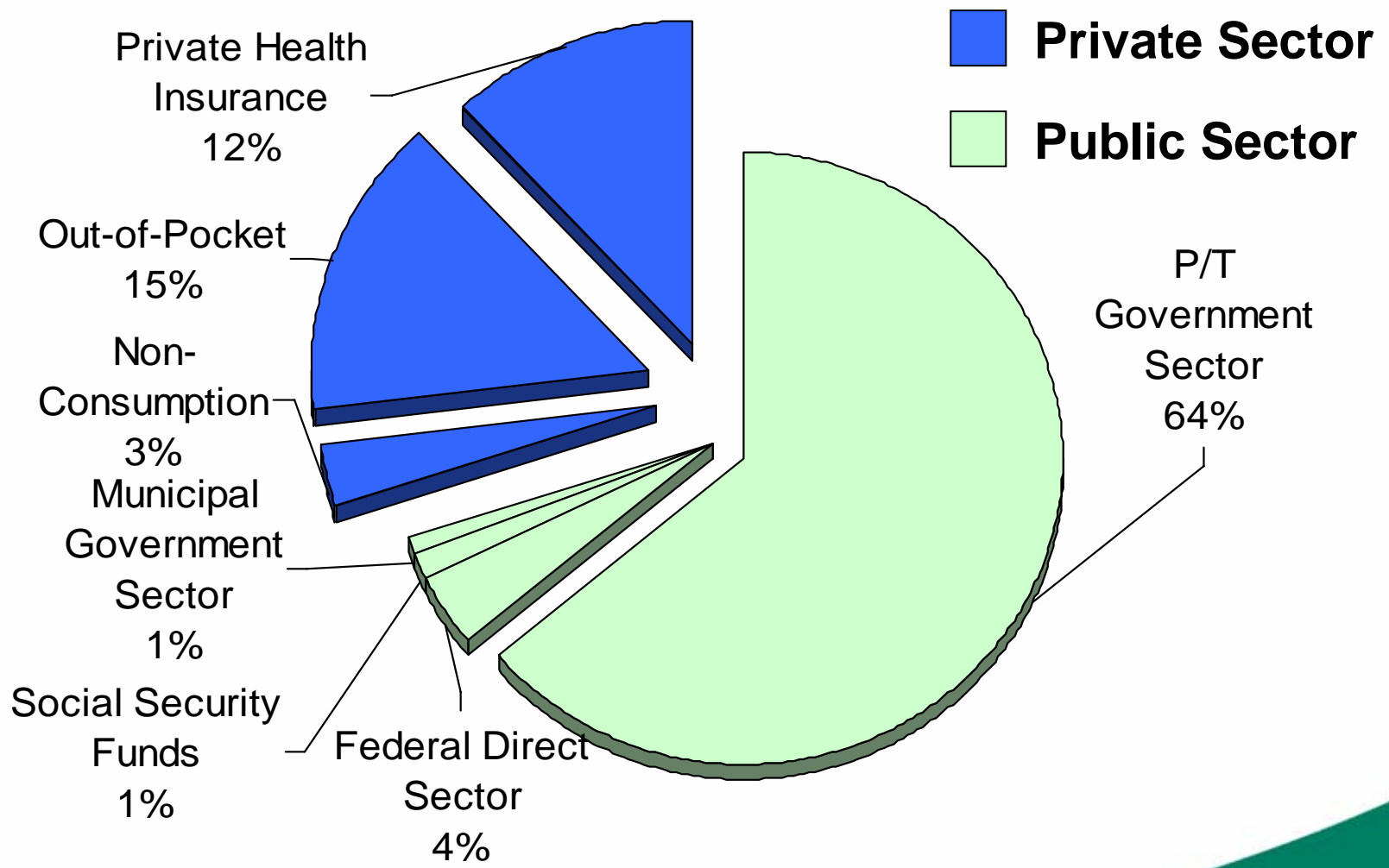
# Components of Growth in Total Health Spending, 2006



# Total Health Expenditure as a Proportion of GDP



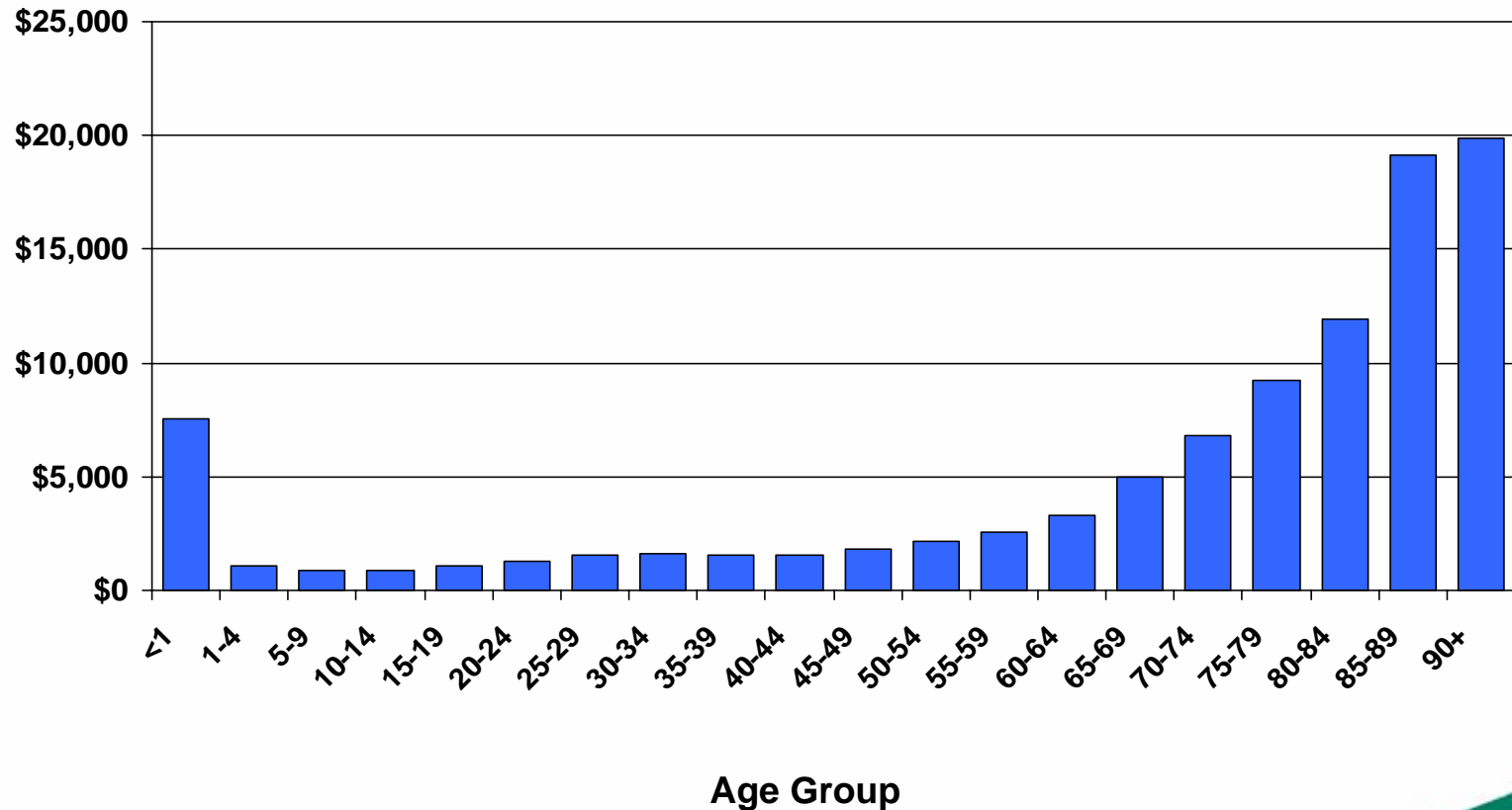
# Who Spends What?



Source: Canadian Institute for Health Information. Note: Data are for 2004.



# Total Provincial/Territorial Government Health Expenditure, Per Capita, 2004



Source: Canadian Institute for Health Information.

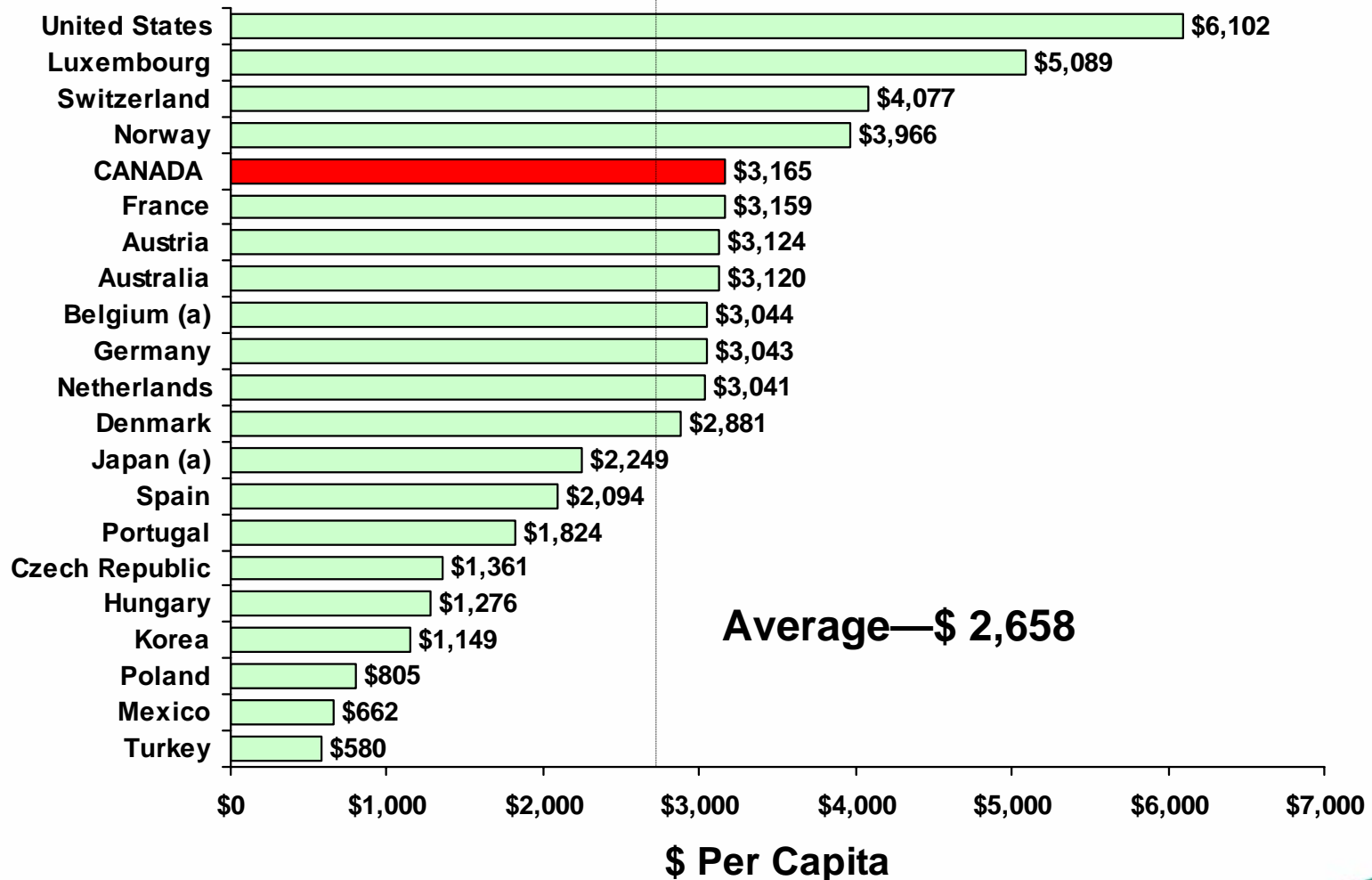
# How Does Canada Compare?



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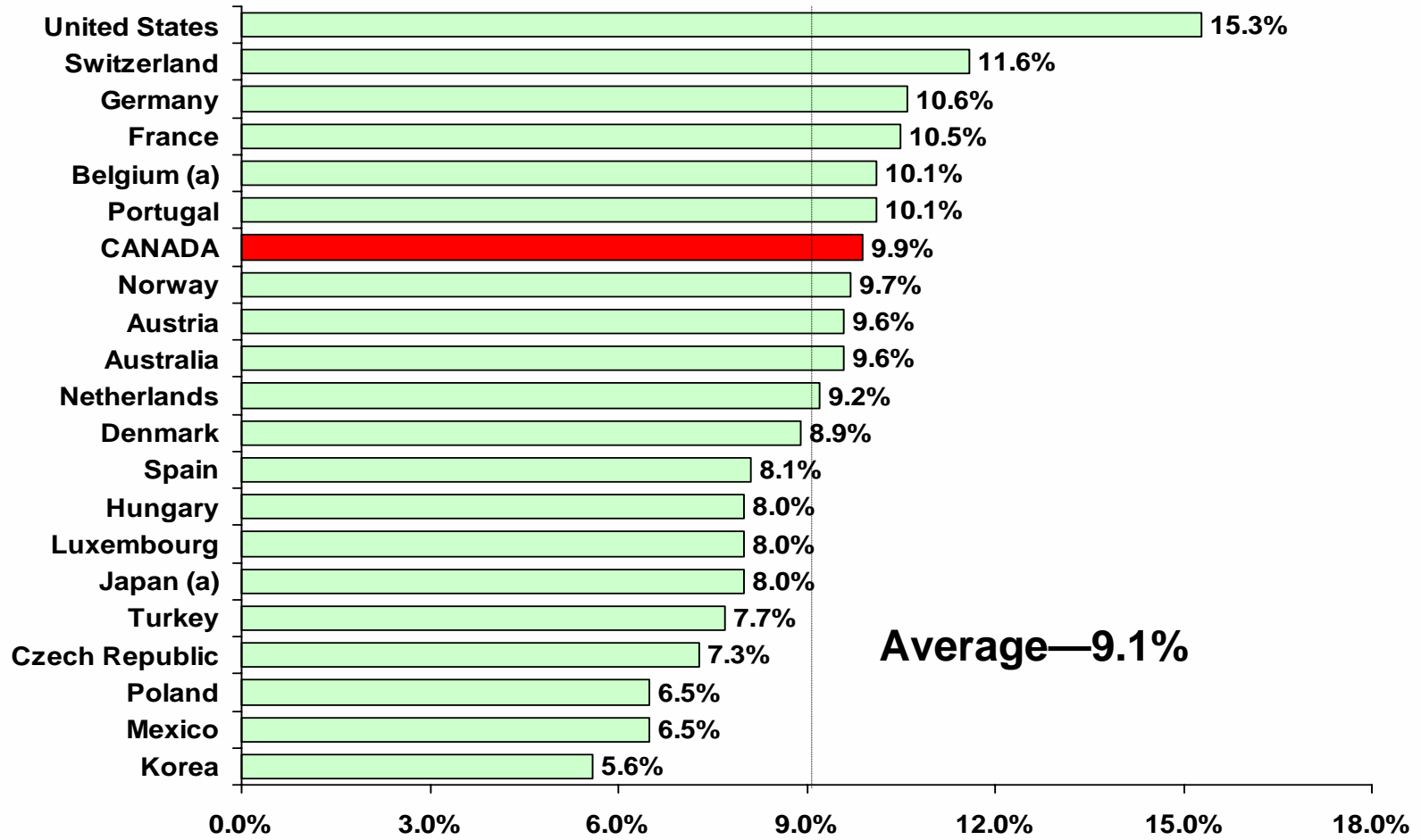
# Total Health Expenditure Per Capita, US\$ 21 Selected Countries, 2004



Source: OECD Health Data 2006, October Edition.

(a) Data for 2003.

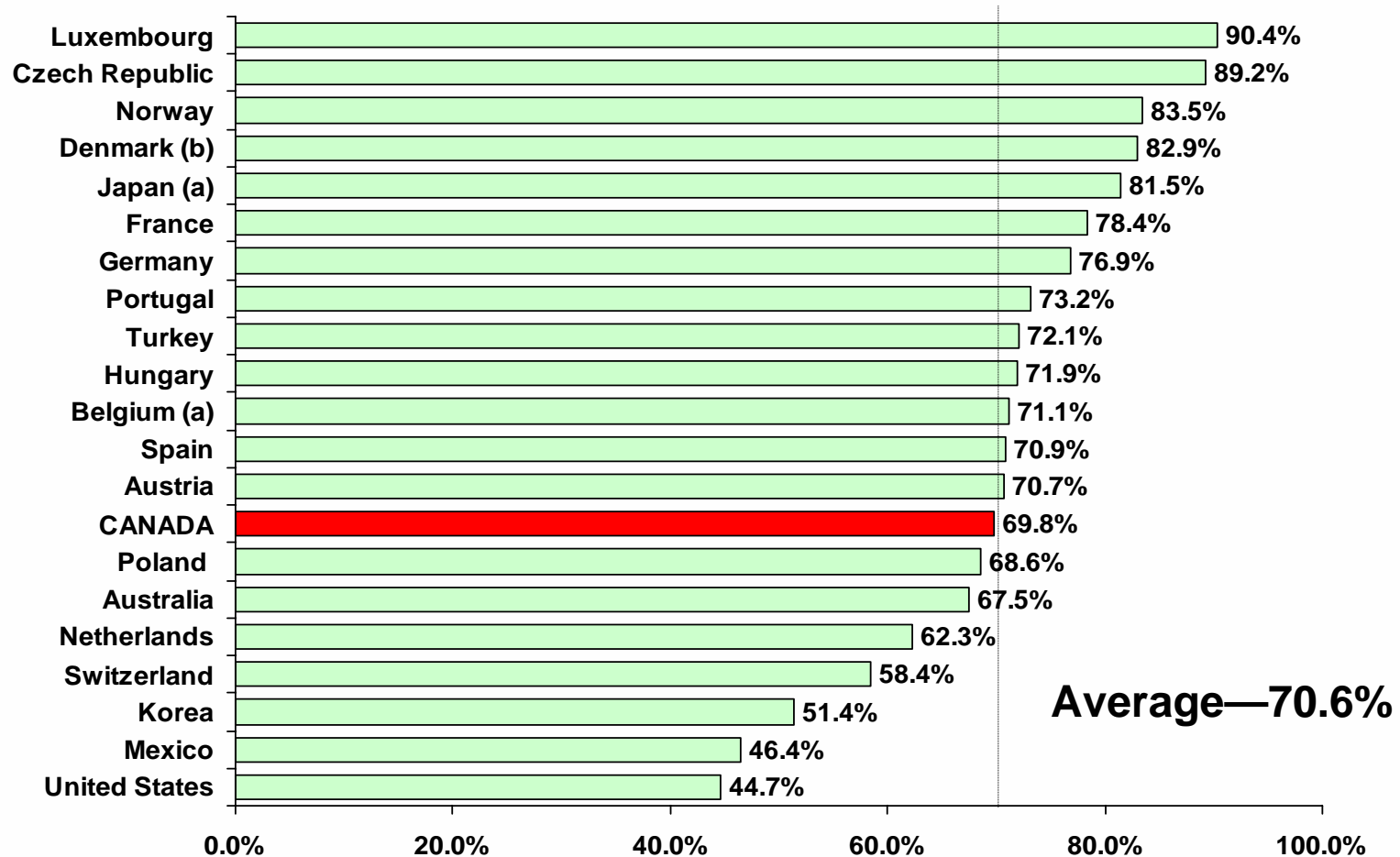
# Total Health Expenditure as a Percentage of GDP, 21 Selected Countries, 2004



Source: OECD Health Data 2006, October Edition.

(a) Data for 2003.

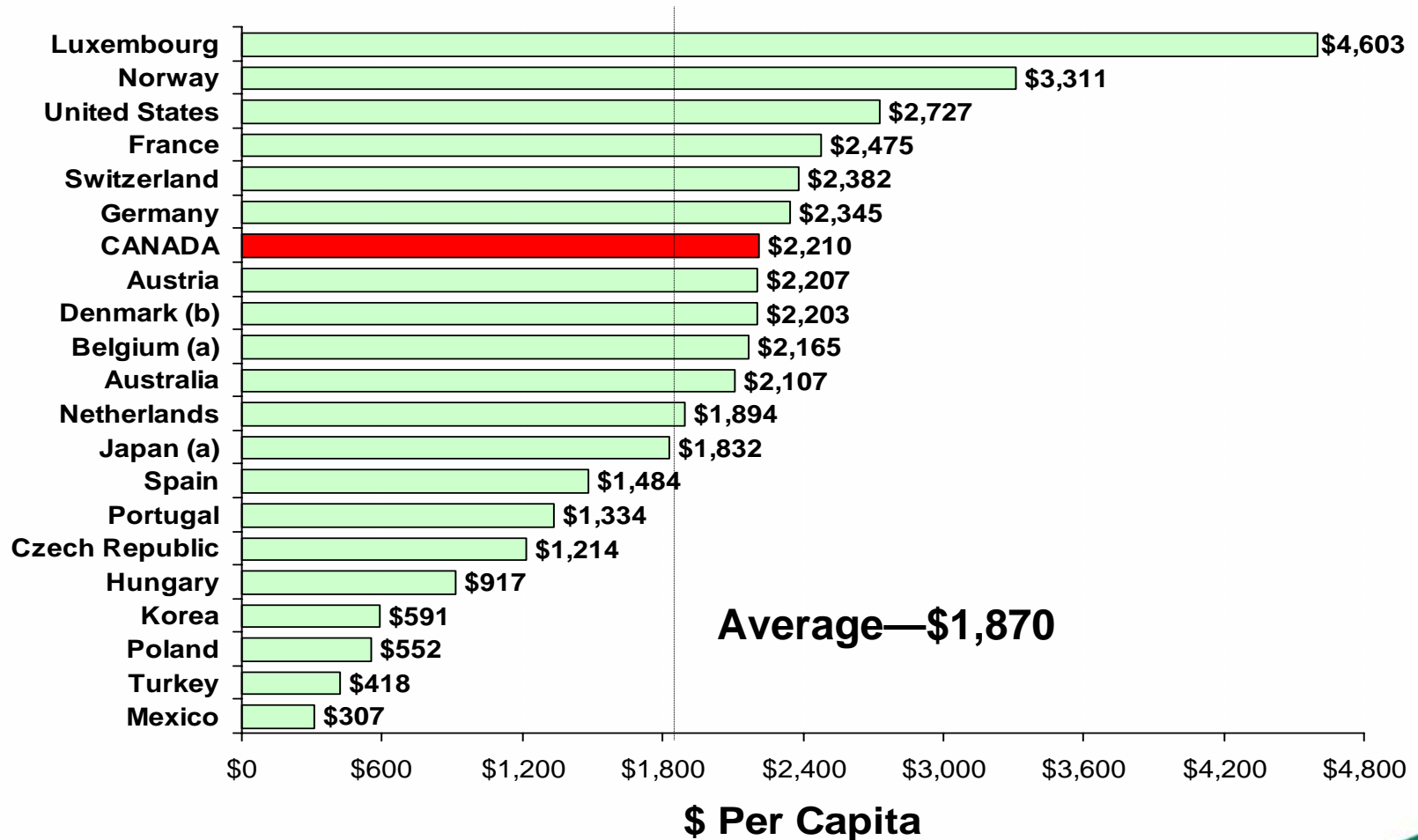
# Public Share of Total Health Expenditure, 21 Selected Countries, 2004



Source: OECD Health Data 2006, October Edition.

(a) Data for 2003; (b) Data for 2002.

# Public Sector Health Expenditure Per Capita, US\$, 21 Selected Countries, 2004



Source: OECD Health Data 2006, October Edition.

(a) Data for 2003; (b) Data for 2002.

# The Road Ahead . . .



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