

Life Sciences in Toronto: The Way Forward

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GlaxoSmithKline: World Facts

- 7% of the global pharmaceutical market
- Invests over \$5 billion annually in R&D
- Employs over 100,000 people in over 140 countries
- Global leader in four major therapeutic areas:



- Respiratory
- Central Nervous System
- Anti-infectives (incl. HIV/AIDS)
- Gastrointestinal



GSK Canada Commitment to R&D

- \$130 million invested in 2003
- \$22 million Pathfinders Fund
- 400 highly skilled GSK R&D staff
- 6th Largest GSK R&D site worldwide
- 10 per cent of the GSK global clinical trials. (2% of GSK market)
- 100+ clinical trials in Canada (17,000 patients @ 2200 centers)







The Challenge

"Up to 10,000 Canadians with university degrees emigrate to the United States each year"

Daniel Schwanen, CD Howe Institute



The R&D-based Pharmaceutical Industry in Canada

- Employs 23,000 people across the country in 60 companies
- Second highest industry contributor to R&D in Canada
- 25 of the top 100 R&D companies represented

| Sector | R&D Exp. (2001) | Research Intensity (R&D as a % of Revenue) |
|-----------------------|--------------------|---|
| 1. Telecommunications | \$6.4B | 17.3% |
| 2. Pharma/biotech | \$1.27 | 14.1% |
| 3. Software/computers | \$955M | 9.7% |
| 4. Aerospace | \$686M | ~6% |
| 5. Energy | \$410.5 | ~5% |

Source: Canada's Innovation Leaders. Research Infosource Inc.; July 2002



Conflicting Government Policies

Federal

Patents

- Drug Approvals
- Pricing
- Investment

Discourage

Provincial

- Health Policy
- Listings
- Pricing
- Investment
- Health / Drug management





Domestic Policy in a Global Market

Canadian policy conflicts

Health / Pharma Policy

- Cost containment
- Market access restrictions
- Prescribing restrictions
- Price controls

Innovation & Economy

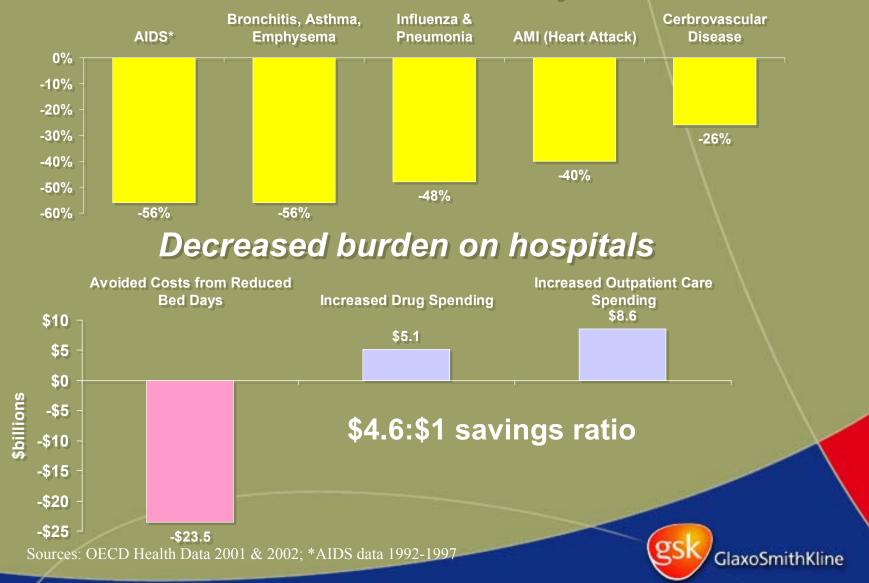
- Attract knowledge-based industries
- Creating skilled jobs
- Encouraging research investment
- World-leading innovation

Global Balance: investment, patents, intellectual property clinical trials, R&D



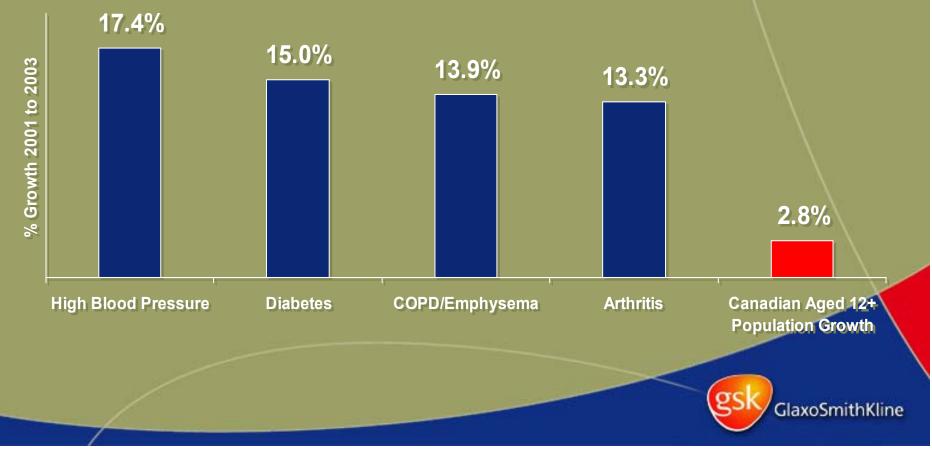
The Value of New Medicines in Canada

Decreased mortality

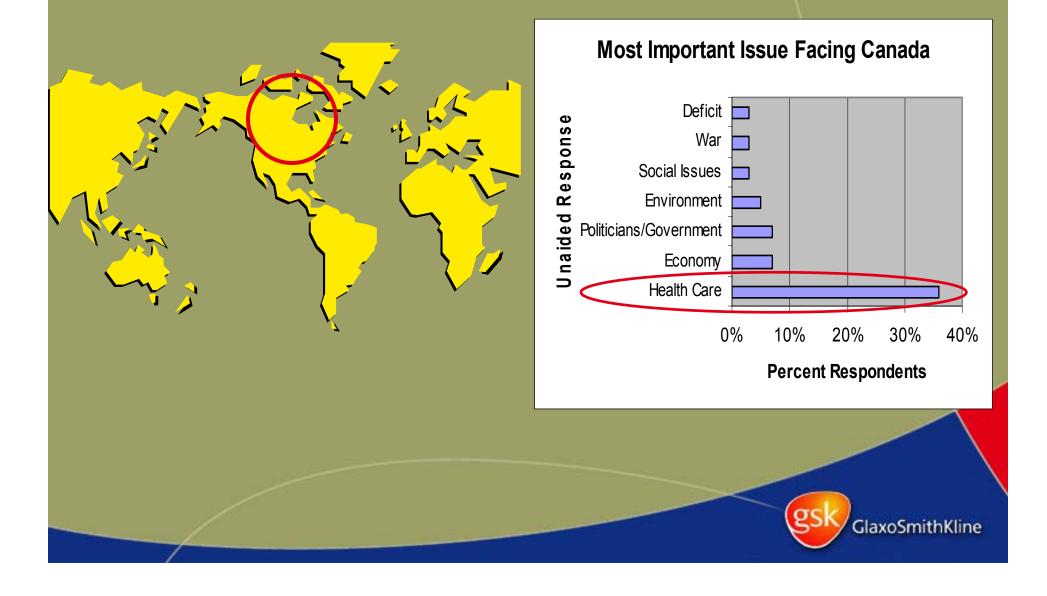


Increase Demand on Health Care

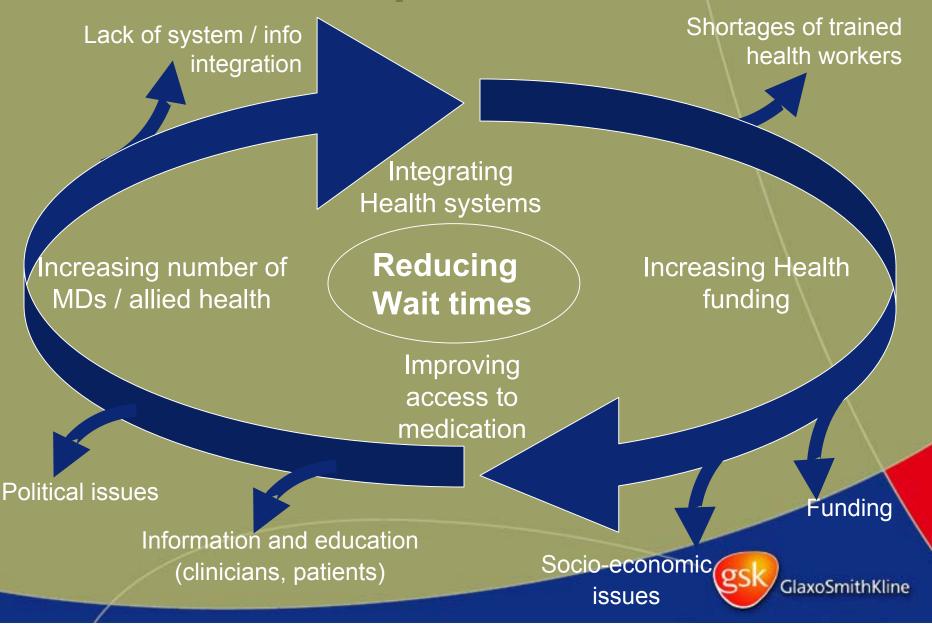
Growth in Incidence of Selected Chronic Conditions Among Canadians Aged 12+ : 2001 to 2003



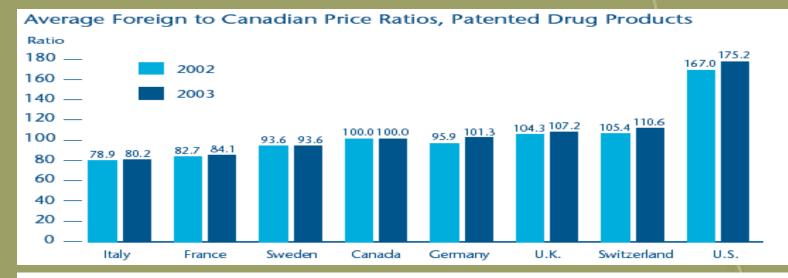
Canada's Health Challenge



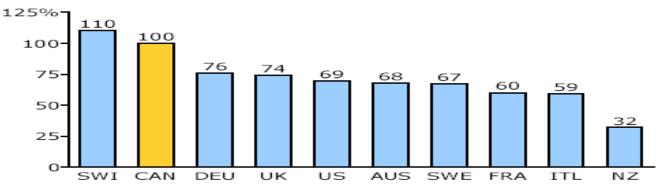
Complex Issue



Brand vs. Generic Drugs



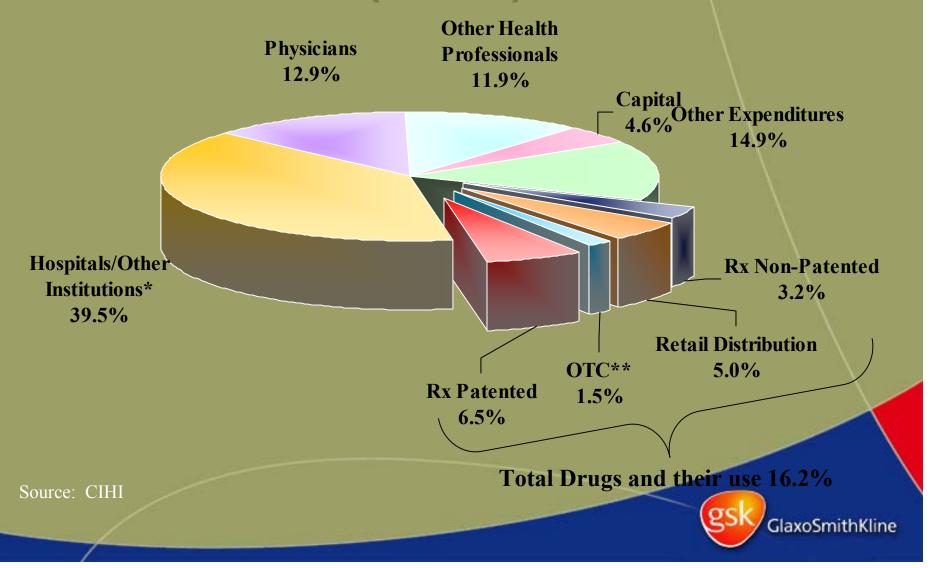
Average ratio of minimum foreign generic price to minimum Canadian generic price



Sources: PMPRB, Annual Report 2003; PMPRB: A Study of the Prices of the Top Selling Multiple Source Medicines in Canada (2002). Extracted from Bain & Company: The Impact on Canada of Pharmaceutical Regulations and Pricing Policies (2004).

GlaxoSmithKline

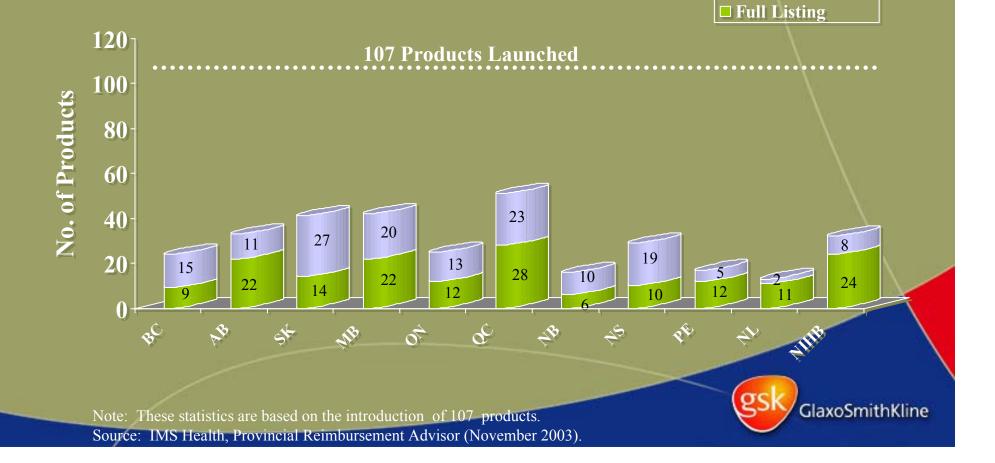
Health Expenditures in Canada (2003f)



Patient Access on Public Drug Plans

Provincial Listings of Innovative Medicines (Launched - September 1, 2001 – August 31, 2003)

Restricted Listing



The Way Forward

A comprehensive "innovative" agreement between government and industry





Thank You

Questions??