

Innovating Across an entire health care system:

Strategic Clinical Networks in Alberta,

Canada

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Alberta Health Alberta Health Services: Strategic Plan focused on Access, Quality and Sustainability

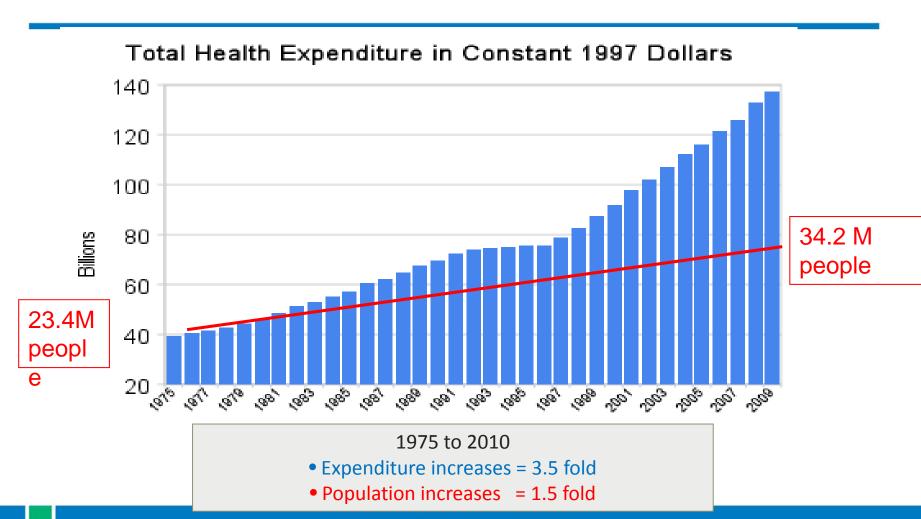




The Landscape in 2013



Non-sustainable cost increases Alberta Health Services in Canada

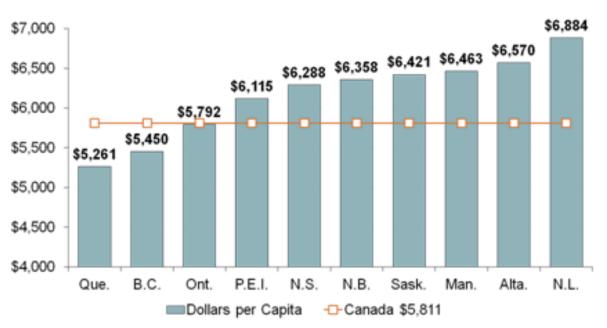




Expenditures per Province in Canada

Total Health Expenditure per Capita, Provinces and Territories, 2011 (Forecast)





Y.T. \$8,995.6 N.W.T. \$10,242.3 Nun. \$11,928.6

Sources National Health Expenditure Database, CIHI; Statistics Canada

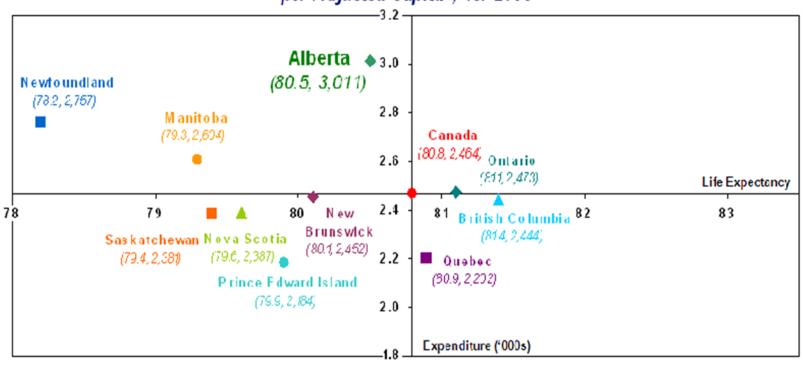
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Health Are we getting the results? Does Size of Expenditures Matter?

Total Life Expectancy¹ vs. Constant (2002)² Provincial Health Expenditure³

per Adjusted Capita⁴, for 2006



Source: Statistics Canada, Table 102-0511 - Life expectancy, abridged life table, at birth, Canada, provinces and territories, annual (years), CANSIM.

²Adjusted for inflation using Alberta-specific CPI for Alberta and Canadian CPI applied across remaining provinces. Statistics Canada, CANSIM, table 326-0021.

Source: Canadian Institute for Health Information, National Health Expenditure Trends, 1975 - 2008 (Ottawa, Ont. CHI, 2008)

⁴Adjusted for Age and Conder differences in expenditure using the Indirect Method and weighting by All-Sector Expenditure in Alberta (2007/2008 Population-Based Funding Weights). Alberta's weights were applied across all provinces.



Changes are needed: Alberta as an example







Innovation

- Translating ideas or inventions into a goods or services that creates value for clients or customers
- In the health care context, an innovation can be a device, a drug, a technique, a method, a system or a service.
- Innovations can be 'procured' from outside or they can be developed 'within'.

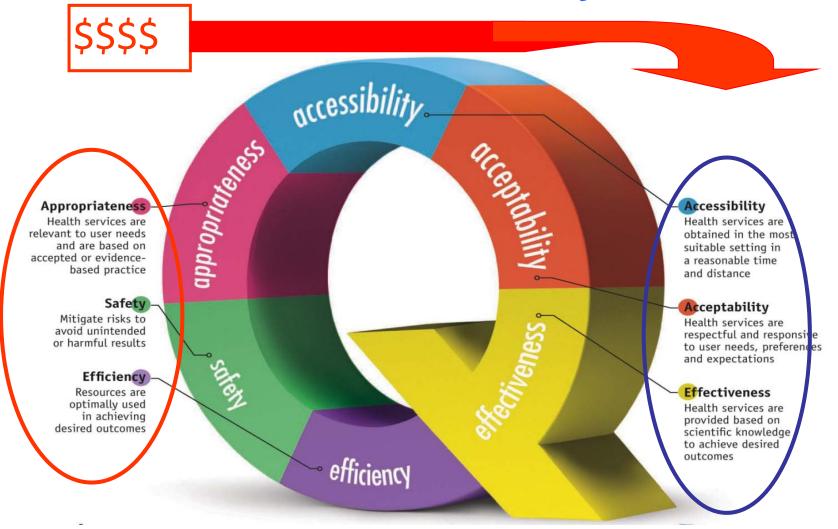


Provincial Mandate of AHS/SCN's

- Improve population health
- Eliminate health disparities
- Ensure continuous quality improvement
- Innovate health services
- Discover and translate new knowledge
- Focus on patient outcomes
- Develop appropriate clinical practices
- Make patient safety a priority
- Ensure value for money + sustainability through evidence

Alberta Health Services

A Successful and Sustainable Formula for Quality Health Care



Initial SCN Goal: Innovate, Eliminate 'Waste' and Reinvest Resources
To improve Quality and Create a <u>Sustainable System</u>



Why Networks?

- Facilitate collaboration, joint decision-making and shared learning
- Promote the use/uptake of clinical experience, knowledge and research to reduce variation and improve care
- Involve partners along a broad continuum in planning, improving and innovating healthcare services
- "a crucial propellant for innovation is collaboration"



Strategic Clinical Networks

Support Provincial Innovation, Improvement and Sustainability

Phase One (established June, 2012)

- Obesity, Diabetes and Nutrition
- Seniors' Health
- Bone & Joint
- Cardiovascular Health and Stroke
- Cancer
- Addiction & Mental Health

Phase Two (TBA, 2013)

- Population Health and Health Promotion*
- Primary Care and Chronic Disease Management*
- Maternal Health
- Newborn, Child and Youth Health
- Neurological Disease, ENT and Vision
- Complex Medicine (current Respiratory Clinical Network + others TBD)



Composition of an SCN

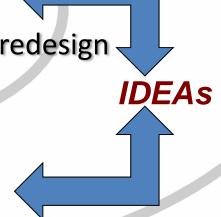
SMD-VP Dyad Co-leads Scientific Director/Associate SD Executive Director/Network Manager

Role of Core Committee

- Engagement Bottom to Top
- Determine priorities and strategic direction
- Represent as broad a group as possible but especially their immediate constituency – rural/urban
- Evidence Based Best Practices Core team
- Think Innovation; "Next" Practices; System redesign
- Suggest things we can stop Support teams
 AHS + AHN + Zones
- Think Geographic Equity

Front Line Teams

Think Enhanced Quality/ider public + patients, HAC's, community groups and other external stakeholders



SCN's -an integral component of Alberta Health Services Alberta Innovation and Research & Development



Health is a global business:

✓Improving Prevention, Health, and Health Care Quality and Sustainability

Alberta has *major* competitive advantages

- ✓ Our Provincial Approach is unique
- ✓ Our Health system is unique
- ✓ Our Universities are aligned
- ✓ Our R and D structure is unique □Health/Energy/Environment/Food

Health generates *major* economic value

- ✓ MANY industries related to health
- √ Major Supply chains (drugs/lab /repairs)
 - ☐ Health Human Resources
- ✓Rapid and low cost access to high quality health data = a key



SCNs align 'top to bottom'

SCN's engage academics with Health Care System



Patients



Administrators







Providers



www.ainerianeaiinservices.ca

Policy Makers/Payers

Researchers





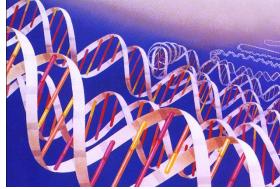
Integrating the four pillars of health research

research networks connect, analyze, innovate and export

researc Basic

Health systems

research







59% Prevention,
Population and
Public Health
research 51% 50% 42% 11% 6-8 15 Age (yrs)

Healthy People 2010 Target

60 r

50

30

20

10

23%

2-4

NHANES*

Percent



research



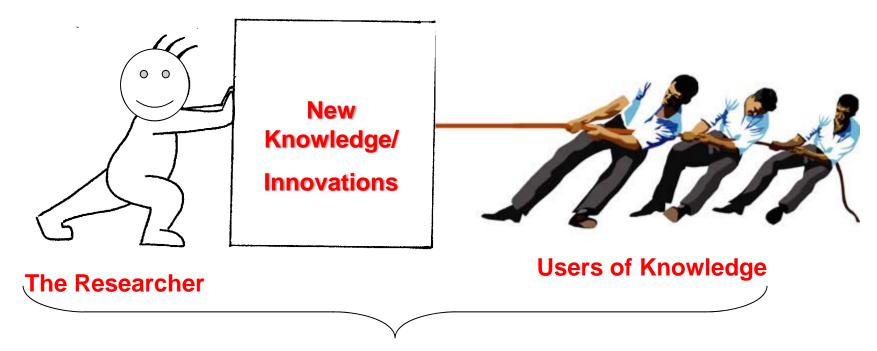
The SCN's can Address Translational Gaps in Research Uptake





The Best 'Knowledge Translation Networks'

with engaged end-users (clinical, policy, public, etc)



On the same team



Highly Qualified People = Key collecting and analyzing linked data





Opportunities

comparative effectiveness data will define value for \$\$



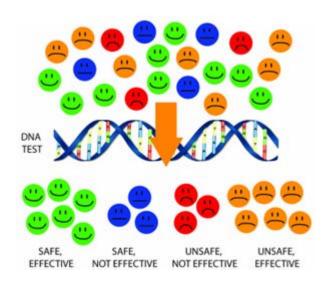
www.albertahealthservices.ca



Other Opportunities

data to inform personalized medicine





http://www.dh.gov.uk/prod_consum_dh/groups/dh_digitalassets/@dh/@en/documents/digitalasset/dh_132382.pdf



Research and Innovation: Key enabler to achieving the highest performing health system

Alberta Health Services (AHS) partnered with the Universities in the Academic Health Network (AHN) enact Alberta's Health Research and Innovation Strategy (AHRIS) in order to achieve:

- 1. improved health for Albertans
- 2. evidence-informed health care across the province
- 3. a sustainable health care system from the direct and indirect economic benefits of these approaches



Research and Innovation Priorities for Alberta

Skilled People/Innovation Platform/Knowledge Translation

- Test new ideas
- Translate new strategies to improve acute care and CDM
- Improved and completely linked Health Informatics Capability in order to mine data for innovations
- Enhanced Clinical Trials Program
- Provincial Biobanking and "Alberta Genomics for Health" Plan
- Targeted technology and product development
- Personalized Medicine
- Support centers of excellence and networks in critical disciplines

Alberta Health Services

Research and Innovation: Key enablers to achieving the highest performing health system

1. Align AHS within the Alberta Health Research Policy Framework

- Map to Alberta's Health Research and Innovation Strategy
- Measure impact of Research, Innovation and KT

2. Build Stronger Partnerships

- Academic Health Network (AHN) and AIHS
- Physicians and other clinicians
- Attracting research and innovation partners to Alberta
- Industry

3. Maximize Value of Health Care System Resources

- Leverage AHS Resources with Partners
- Further develop and link high quality data

Alberta Health Services

Research and Innovation: Key enablers to achieving the highest performing health system

- 4. AHS Resources as an engine for research
 - QI and System Sustainability supported by excellent research
 - Prioritizing, Funding and Measuring Research in AHS
 - Start Small with High Impact Studies; seed capacity
- 5. Create a culture of research and innovation in AHS
 - Strategic Clinical Networks as Provincial Mechanisms
- 6. Incent Research of High Value to AHS
 - Incenting Strategic and Investigator Initiated Research of value
 - Sharing Gains of Research with those who did the work
 - Awards and Recognition

Strategic Clinical Networks: Bringing Science and Best Practices Together to Define Next Practices integrate to innovate





Stars are aligned - now

