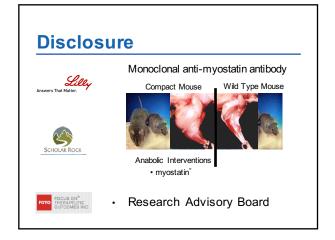


Overview

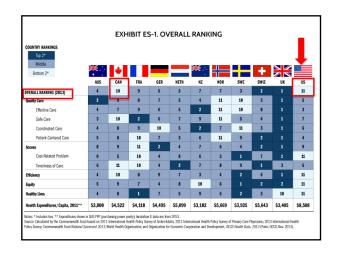


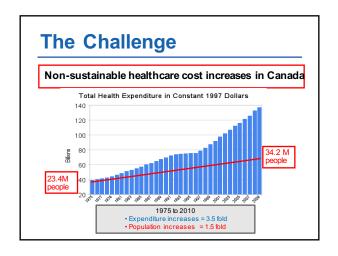


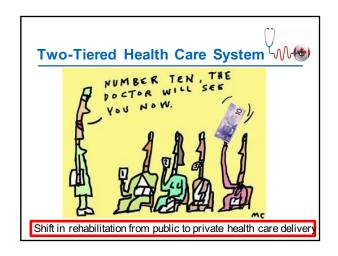
- Challenges with the sustainability of our current health care system.
- Developing & evaluating new models of musculoskeletal care – physical therapists as primary care providers.
- SpineAccess Alberta as a model for developing an integrated primary care system.









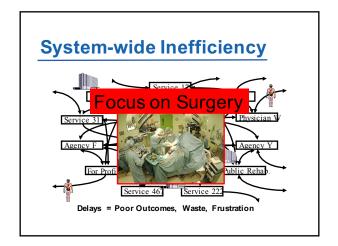


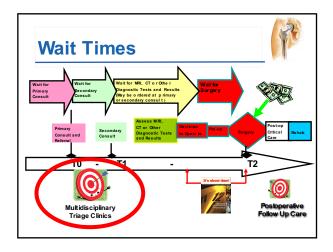
Bending the Cost Curve

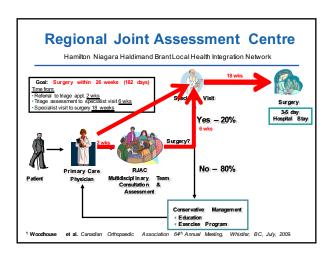
- BENDING
 THE COST CURVE
 IN HEALTH CARE
- Move care out of acute care hospitals into the community.
- Shift from tertiary to primary and secondary prevention.
- Eliminate inappropriate care (Choosing Wisely Campaign).

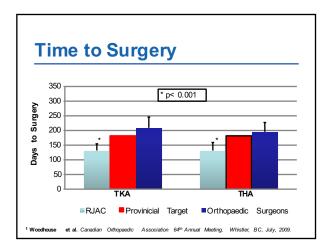
Make health an epidemic!!!!

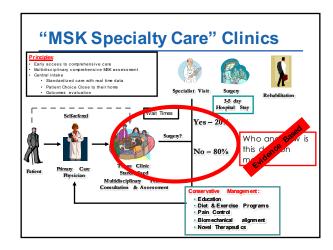












Evaluation

- Practitioner (Diagnostic Accuracy)
 - Formal Education
 - Residency programs (competency medical directives)
- Process:
 - Access to care/wait times

Outcomes:

- Patient Satisfaction
- Basis for decision/establishing urgency
- Future: Are longer term post op outcomes improved?

Diagnostic Accuracy - MSK

- · Diagnostic accuracy of physical therapists equal to orthopedic surgeons and significantly better than nonorthopedic providers, when magnetic resonance imaging (MRI) was used as the gold standard.1
- · Very high agreement between APPs and orthopaedic surgeons re: triage recommendations & DI tests ordered, but APPs give more conservative recommendations (NSAIDs, education, joint injection, exercises, physiotherapy).2
 - Moore JH et al. J Orthop Sports Phys Ther 35: 67-71, 2005.
 Desmeules et al. BMC Musculoskeletal Disorders. 14:162, 2013.

Patient Satisfaction

 High patient satisfaction with APP/extended scope physical therapists in diverse roles. 1-6

- Desmeules et al. BMC Musculoskeletal Disorders. 14:162, 2013.
 Kennedy et al. Physiotherapy Canada (in press) 2009.
 McClellan et al. Emerg Med J. 23(5)"384-387, 2006.

- Richardson et al. Emerg Med J. 22(2):87-92, 2005.
 Rymaszewski et al. Ann R Coll Surg Engl. 87(3):174-80, 2005.
- ⁶ Daker-White et al. J Epidemiol Community Health 53(10):643-650, 1999.

Interprofessional Teams

- Pre Surgical Triage
 - Australia
 - UK, Scotland, Wales (-19 to 29 wks)
 - UK (Aintree, Somerset Coast & Southampton NHS)
 - - -Alberta Bone and Joint Institute (- 42 weeks)
 - Ontario
 - Ottawa, Kingston, Thunderbay, Toronto (Holland, NYG H, UHN, St. Michael's), Hamilton/Niag ar a

Aiken et al. 2007. Healtho Q 10:88-91, 86 Aiken et al. 2008 Healtho Q 11:62-66 Robarts et al. 2008

Evaluation of APP Roles

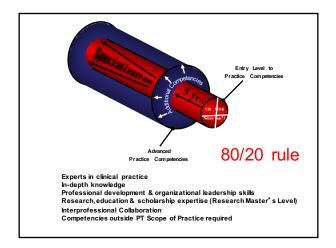
- · Practitioner (Dx Accuracy)- EQUIVOCAL
- · Patient Satisfaction EQUIVOCAL
- Outcomes APP-led Triage Clinics:
 - Surgical wait times REDUCED
 - Basis for decision/establishing urgency EVIDENCE

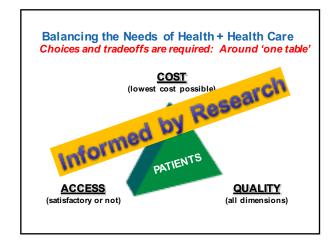
 BASED

 ASED

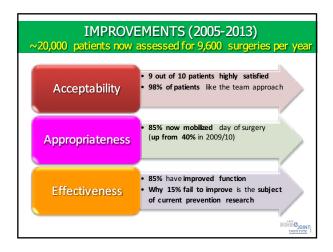
 AS
 - Future:
 - · Added value? (cost, outcomes??)

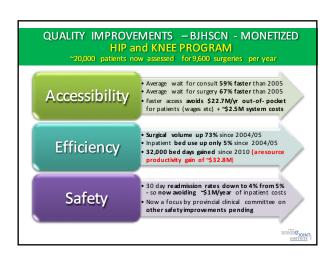
Desmeules et al. BMC Musculoskeletal Disorders 13:107, 2012.

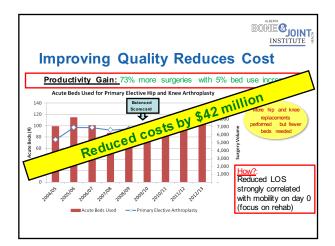


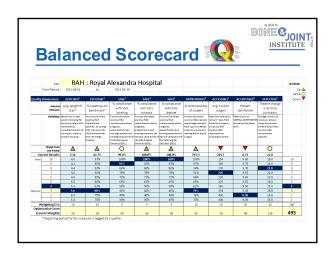


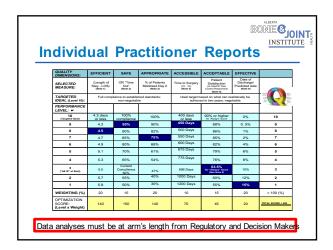


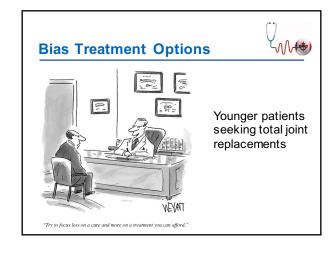


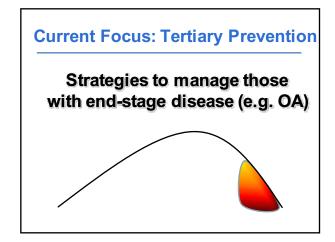


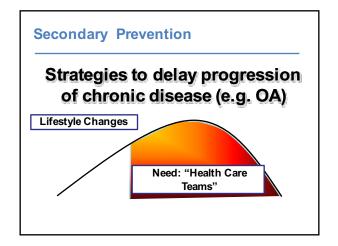


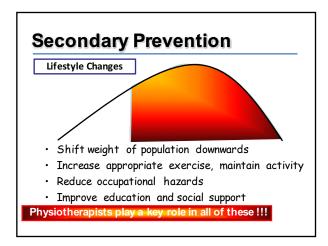


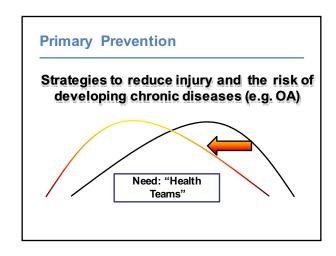










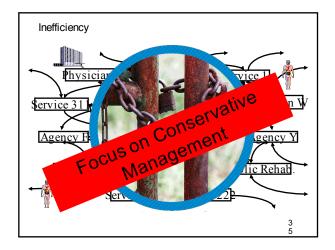


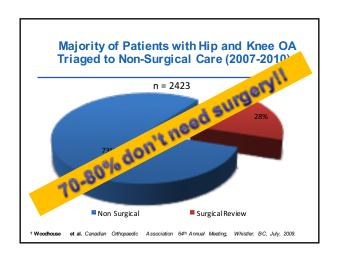


The Challenge - Impact of MSK Disorders

- MSK conditions are the leading cause of severe long term pain and physical disability worldwide¹
- 2000-2010 "The Bone & Joint Decade"
- Moving from 1 in 8 to 1 in 4 Canadians with Arthritis²
- Every 60 seconds, someone in Alberta seeks health care for a musculoskeletal (MSK) condition.

¹ Woolf, A. D., & Pfleger, B. (2003). Bull World Health Organ, 81(9), 646-656
² Arthritis Alliance of Canada (2011). The Impact of Arthritis in Canada: Today and Over the Next 30 Years





Why Physical Therapists & Why in the Primary Care Sector?

Why Physiotherapists?

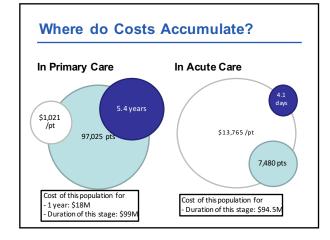
- · Self-regulated
- · Protected title
- · Direct Access
- · Majority are involved in direct patient care
- Core competency in musculoskeletal diagnosis & management – across the full continuum of care

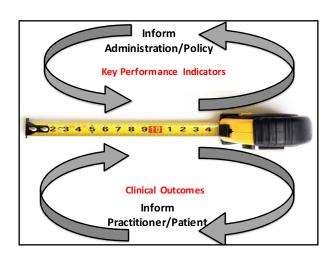
Physiotherapists Added Value

- · Expertise in:
 - musculoskeletal assessment and treatment
 - measuring pain and function
 - chronic disease management strategies
- · Direct access, evidence-based practitioners

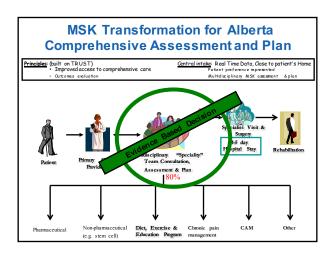
80-90% of activities of advanced practice physiotherapists are within scope of practice

Obesity - Risk Factor for OA Produce proinflammatory markers (CRP, TNFq, IL-1, IL-6, NO) Circulation (systemic effects) Adipokines OA Risk: Sacoperic Obesity Neuroruscular Neuroruscular Neuroruscular Neuroruscular Roubenoff 2003 Arthritis Rheum 49:263-266









Transform MSK Care

Early access to multidisciplinary team MSK care will improve the access, cost, morbidity, satisfaction & experience, quality and comprehensiveness of care for Albertans with:

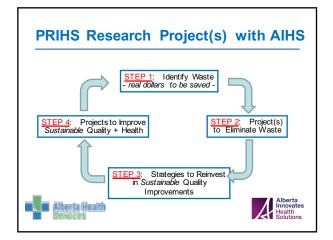
- 2) soft tissue knee injuries, and
- 3) rheumatological disorders

compared to current approaches that focus on use of single specialist access (tertiary care) and wait-lists.

Finding Funding

There will be no/limited new monies for health care, but merely a shifting of resource allocation to areas that demonstrate effectiveness – judged using key performance indicators

Reassessment Strategy





Spine



In Canada

The lifetime prevalence of back pain in Canada is High Volumes approximately 85%

Delayed access to care & long wait times for surgery

Delayed Access

Medical expenditures for low back pain is \$6-\$12 billion per year

High Cost

Overutilization of diagnostic imaging & emergency room visits

Reduced Waste: ER Visits

From 2007 and 2012: <u>292,555 Albertans visited an emergency room</u> with a spine related disorder

- Approximately 50 000 visit each year
- · Average admit rate: 3%
- 50,000 ER visits at \$1,000 per visit, the potential cost savings totals \$49 million dollars.



Reduced Waste: DI Visits

- 25,000 lumbar spine MRI studies done annually in Alberta, with only 44% considered to be necessary 1.
- At \$650 per scan (not including \$200 for gadolinium if needed), the potential cost saving would be over \$10 million dollars.

¹Emery et al. (2013)



Appropriate use of DI & ER:

Reduction in "waste" within current health care spending........

 Even a very conservative estimate of a 10% reduction in ER visits and MRI studies would translate into a cost savings of \$6.6 million





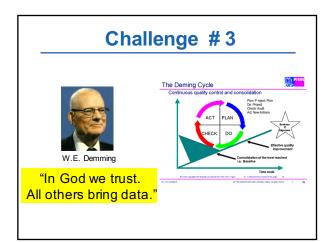
Partnership with AMA

Changing criteria for DI referral reduced utilization by 12% in 2 weeks



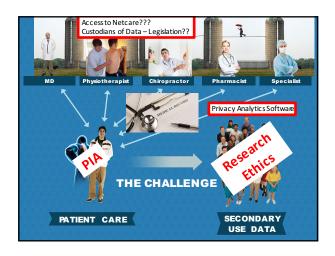


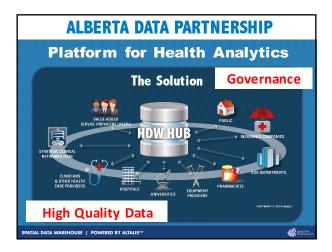
Spineacces

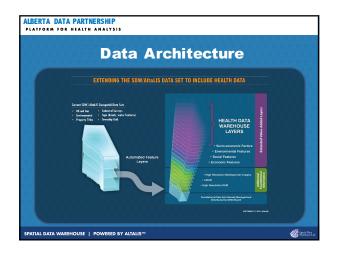


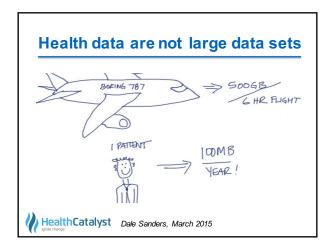
Building an Integrated Data System

- We need to build integrated data systems public & private sector - that enable primary care for patients and secondary use data analytics to transform the health care system
- Real time data to evaluate individual performance (patient & practitioner outcomes) - reward quality!!!









Conclusions



- We must move upstream to focus on primary and secondary prevention strategies to manage the tsunami of patients with chronic diseases that will occur in the next decade.
- We need system-wide changes in data collection and funding to enable "teams" in primary care to manage these conditions.
- Physical therapists need to play a major role managing MSK disorders in primary care teams.
- We must collect data to demonstrate the value and impact of PT services in the primary care sector.







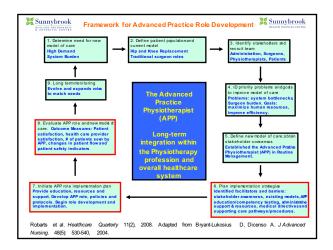
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Framework for Developing Advanced Practice Roles



es - The Role of Physiotherapists in Primary Musculoskeletal Care							

es - The Role of Physiotherapists in Primary Musculoskeletal Care								