

How to Survive the Tsunami

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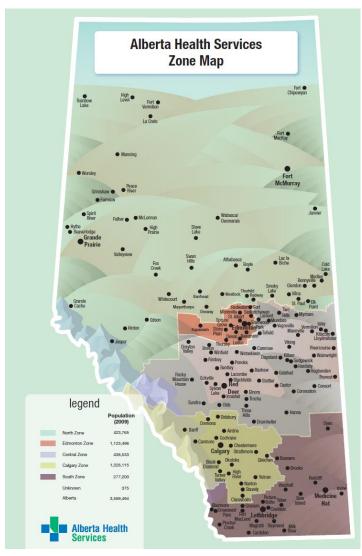
to



"GAME CHANGING HEALTH INNOVATIONS CONFERENCE"

February 24, 2011

Alberta Health Services



Alberta Health Services Quick Facts:

Annual Service Volumes (preliminary 2009/2010)

1,980,000 Emergency Department visits 178,000 Urgent Care visits 363,000 Hospital discharges 51,000 Births 60,000 Home Care Clients 1,030,000 Health Link calls

48,860,000 Laboratory procedures 149,500 MRI exams 416,500 CT exams

Cancer Care

510,000 Cancer Patient Visits 46,000 Cancer patients receive treatment, care & support

Facilities

There are 102 facilities (97 acute care hospitals and 5 standalone psychiatric facilities: this does not include Lloydminster Hospital).



TSUNAMI of Chronic Disease



Tsunami of Chronic Disease

- 75% of people at age 65 have at least one chronic disease.
- "Baby Boomers" are now entering this age group

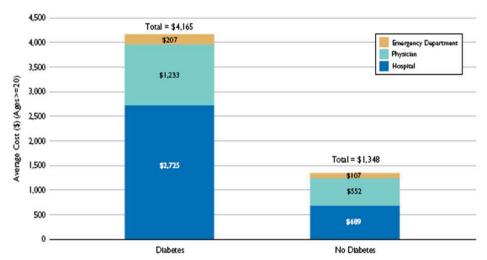
The 33% of Canadians who have one or more of seven chronic conditions account for:

- 51% of GP consults
- 55% of Specialist consults
- 66% of Nursing consults
- 72% of nights spent in hospital*
- * Lockwoods 2008

Alberta Health Services

Why is Innovation so important for Alberta Health Services?

Figure 4.42 Average Health Care Costs by Category for Adults, 2007

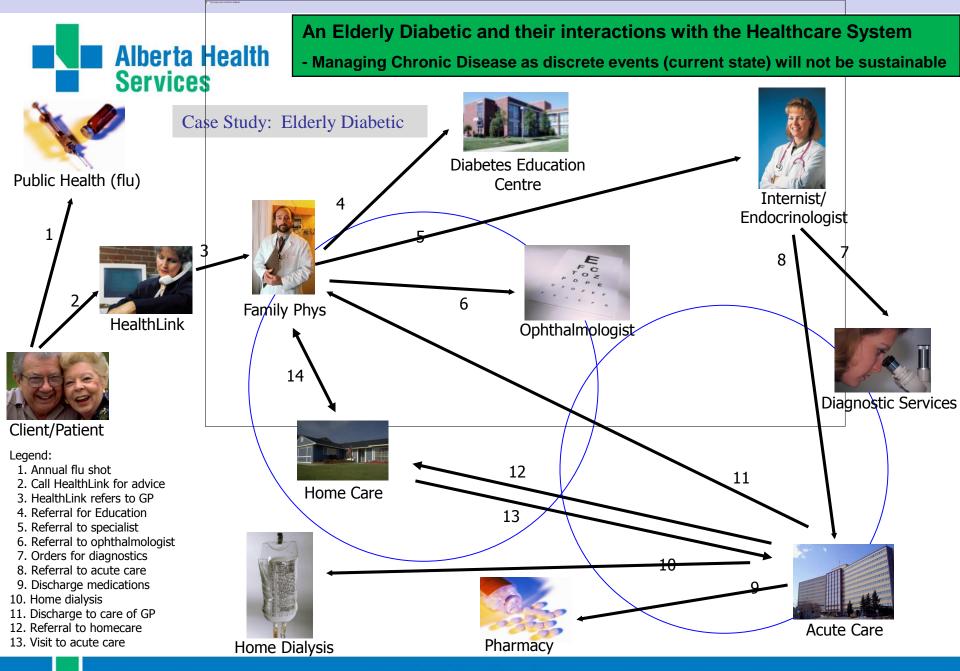


It might therefore be reasonable to estimate the total per capita direct health care costs to be in excess of \$5,000. If this individual amount is multiplied by the estimated number of people living with diabetes in Alberta in 2007, or approximately 164,000, total health care costs for diabetes in Alberta would be in excess of \$800 million.

Alberta Diabetes Surveillance System

MOTIVATION

- Health Care Costs are rising between 8% & 15% annually
- ➤ GDP and population growth are between 2% & 4%
- Number of net additional clinicians is minimal (retirees vs. new entrants); a corollary of the "Baby Boom"





Range of Solutions

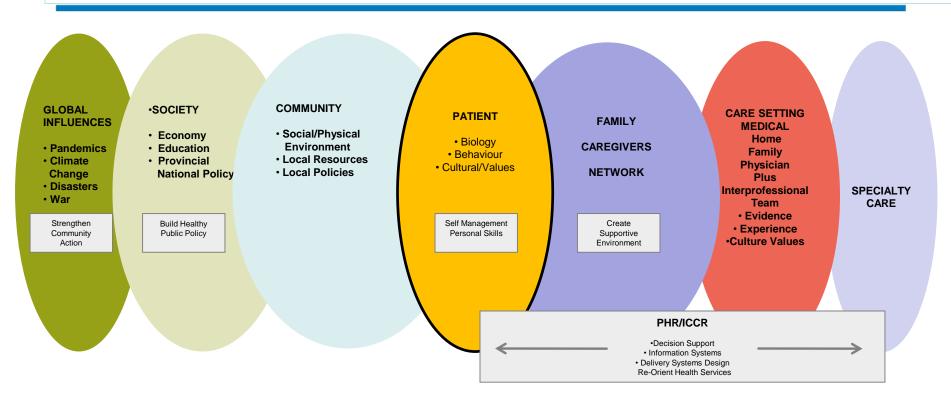
- More providers, more facilities
- Leverage lower cost workforce
- Through increased use of technology engage the patient to co-manage care, reduce burden on system
- Through increased use of technology, gain an order of magnitude in productivity of providers

This is not about IT



THE HUMAN VIEW:

New Paradigm – re-orient the system from episodic to continuous care



Impact



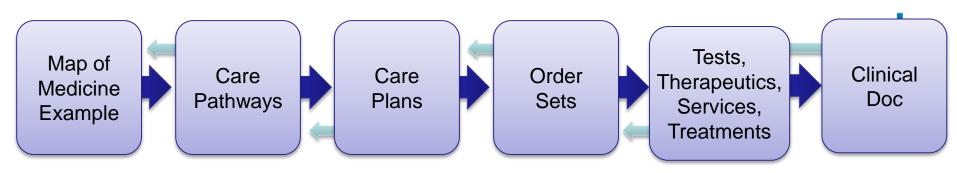
The patient will be supported by a multitude of providers, services and family. They must work in close harmony. Data, information and knowledge must be available in real time in the patients and care givers hands.

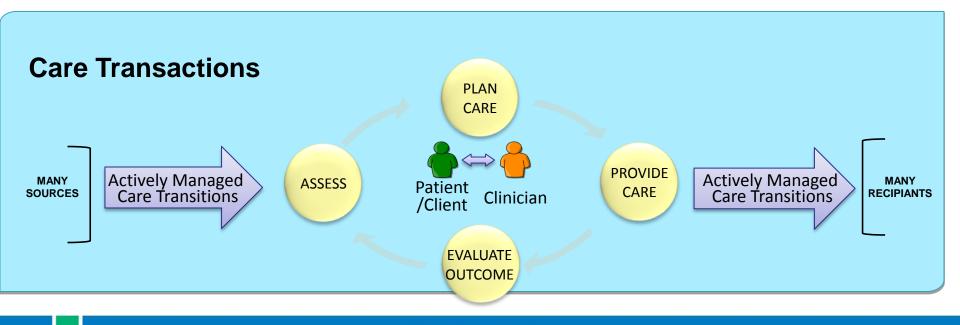


THE CLINICAL VIEW

Common Process Across Care Settings

Care Process





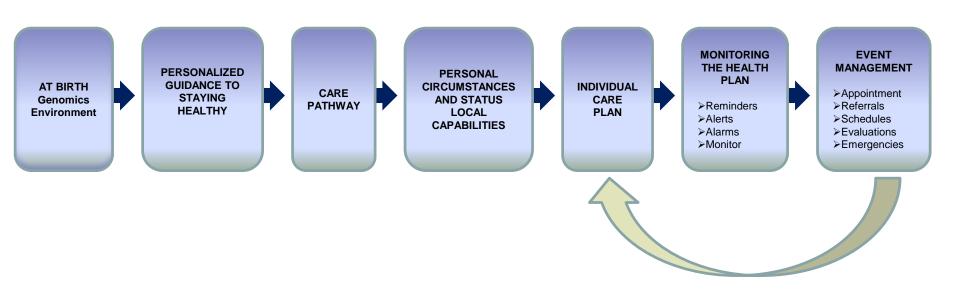


The Change

- The future of healthcare in Canada will be very different from the past with a potential tsunami of chronic disease requiring dramatic change in the way health care has been delivered. The increased incidence of chronic disease requires health professionals to be true partners with their patients in co-managing the illness. Already people with chronic disease have unrivaled direct access to information (accurate or not) about their condition. Increasingly people with chronic disease will expect to be provided with more information about treatment options and more information about the course of their disease.
- This change in attitude can be harnessed by the health system. The more people
 with chronic disease monitor their own health carefully, the better their outcomes will
 be.
- In terms of treatment patterns, the actual time that a person with chronic disease and ends with a health professional is relatively small. For the vast bulk of the time, the person with chronic disease is managing themselves. They are supported by their family and other careers for much of the time as well.
- The following diagram outlines the new context of care.



The Future – Globalization; Anywhere, Any Time, Real Time



❖We need to recognise this as a de facto world model



Is this possible? Yes

- Alberta is ahead of most of the world.
- Assets are in place for:
 - Lab
 - DI
 - Discharge
 - Drugs
 - Telehealth
 - Net Care
- Majority of regulatory needs are in place (HIA).
- Most importantly, the desire is here.

"I invented nothing new. I simply assembled into a car the discoveries of other men behind whom were centuries of work. . . . Had I worked fifty or ten or even five years before, I would have failed. So it is with every new thing. Progress happens when all the factors that make for it are ready, and then it is inevitable. To teach that a comparatively few men are responsible for the greatest forward steps of mankind is the worst sort of nonsense."

Henry Ford



What is needed to move to the new Model and to encompass the entire continuum of care?

HEALTH SYSTEMS	INFORMATION TECHNOLOGY
Best Practice Care PathwaysUtilizing appropriate services	- Electronic, real time availability of all information
Standard Care PlansCross continuum; from home to hospital	- Secure personal access to information
- Uniform Decision Support	- Shared Care Plans
- Billing modifications (electronic consults)	-Alarm and Alert processer and tools
- Data "ownership" shifted to patient (Ownership implies control)	- CPOE/Decision Support
	- Process/work flow management tools (aka Referrals)
	- Real Time Reporting Measurement

*PHR/*ICCR

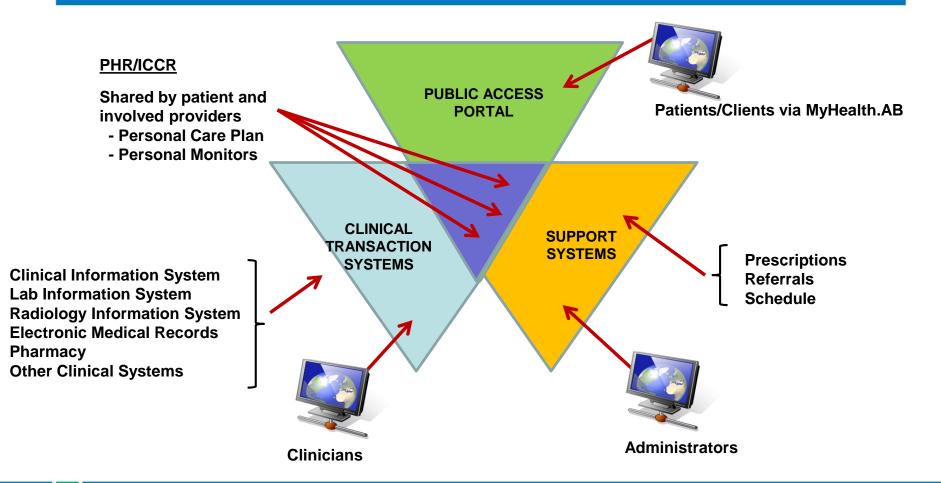
- Managing
 - Monitoring
- Communication Tools

*PHR = Personal Health Record

*ICCR - Interactive Continuity of Care Record

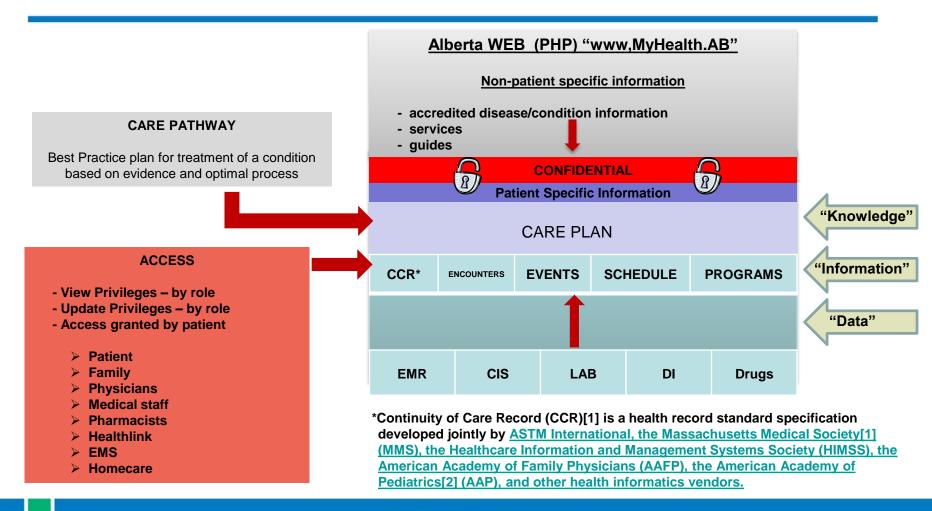


The PHR and ICCR Context





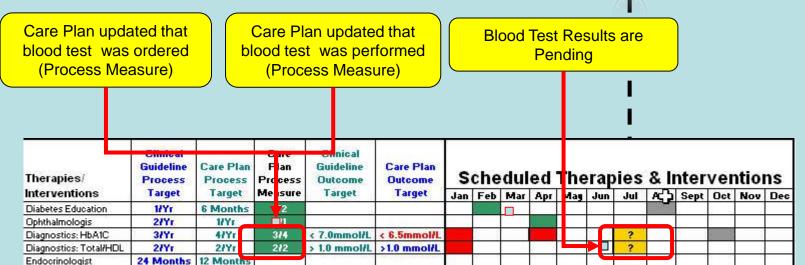
The "New" Environment – PHR & ICCR

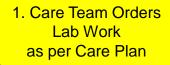




A Simple Care Plan







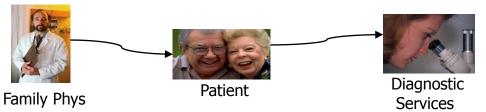
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WYC

Flu Shot

2. Blood Tests Performed

3. Results forwarded to Provider & Available to Patient



CDMR - Example



Steps

- ❖ MyHealth.AB Portal → Launch planned for March 15, 2011
 - Non personalized information
 - Trusted specifics about health issues
 - guidance, maps, services, contact
 - "ONE STOP SHOP"
- ❖ MyHealth.AB
 → Phase II 2012/2013 (est.)
 - Patients/Clients have access to personal information
- ❖ MyHealth.AB
 ➡ Phase II (ICCR) 2012/2013
 - All Diabetics have access to individualized care plan
- ❖ MyHealth.AB → Phase III/IV 2013/2014 (est.)
 - All chronic disease patients have access to individual care plans



First Milestone

"That every Albertan with diabetes will have access to a personal electronic health record, which will include their personal care plan and allow them to monitor and track their condition by the end of 2012"



(Care Pathways and Care Plans – Example Diabetes)

 Using "best practice" Clinical Pathways that drive continuously monitored and managed individual Care Plans works.

Improvements in Measures

- HbA1C control (Diabetes)	16.5% increase
- Total/HCL control (Diabetes	12.5% increase
- Triglyceride control (Dyslipidemia)	13.6% increase

Improvement in Appropriate Care

 Emergency department admissions 	34% decrease
- Inpatient admissions	41% decrease
- Inpatient length of stay	31% decrease

These outcomes were achieved by actively engaging the patient in the management of their condition.

•Based on the Chronic Disease Management Information System Prototype and subsequent evaluation; February, 2009



IMPACT

QUALITY ———

Actively managed Care plans managed by patients equates to better outcomes.

ACCESS ----

Move from "events" to "continuous" care will reduce wait times.

SUSTAINABILITY

Clinicians focus on high-value work, higher satisfaction; greater productivity.

Example: Geisinger Health, Pennsylvania



"Ideas are cheap, execution is everything"

- Healthcare is full of bright ideas successfully implemented in microcosms.
- Innovation now has to focus on the macro problems.
 - The concept that we can put the information, knowledge and tools into a patients hands for managing their own care is mandatory.
 - The capability to have a multi-disciplinary team collaborating in real time to support that patient is innovative.
- Some of the people, some of the time = mediocre
- All of the people, all of the time = game changer



Summary – How to survive the Tsunami

- ❖ The Challenge: sustaining a publicly funded health system in the face of rapidly rising demand due to Chronic Disease.
- The solution: a "connected" provider community and well informed, empowered patients.



The Sea Wall