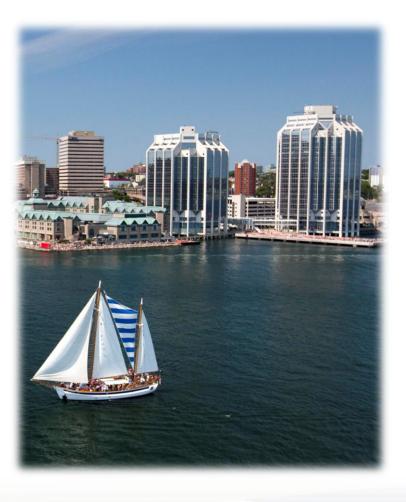
The Personal Health Record

A Game Changer for Nova Scotia

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Overview



- Setting the Context
- Our Approach
- Challenges / Lessons Learned
- The Way Forward
- First Voice



Setting the Context





Health and Wellness

Responsible for

- Strategic direction of health-care system
- Development of service delivery standards
- Monitoring and evaluation of quality, accessibility and comprehensiveness of health services
- Financial and human-resource planning
- Allocation of resources
- Establishing requirements for information systems

Vision

An innovative and sustainable health system for generations of healthy Nova Scotians

Mission

Providing leadership to the health system for the delivery of care and treatment, prevention of illness and injury, promotion of health and healthy living

Budget: \$3,910,819,000

Dept Employees: 489

NS Population: 921,725

Hospitals: 35 in 9 DHAs + IWK1

Beds: 2928¹

GPs: 1002²

Specialists: 1402²

Key Services/Program Areas: 811, Acute & Tertiary Care, Addiction Services, Better Care Sooner, Continuing Care, eHealth, Emergency Health Services, Family Physicians, Health Card (MSI), Health Team Nova Scotia, Infection Prevention and Control, Mental Health, Nursing Strategy, Personal Health Information Legislation, Pharmacare Programs, Primary Health Care, Public Health, Quality & Patient Safety, Travel and Accommodation Assistance, Wait Times...

- 1. Business Intelligence & Analytics, Health Information Office, 2012
- 2. Physician Services, 2011/12

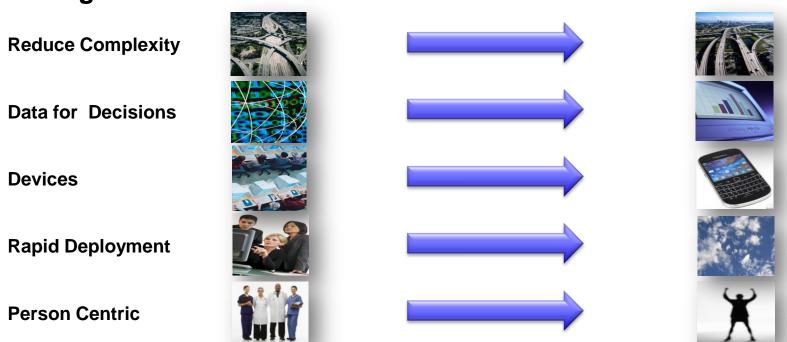


Health Information Office

> Priorities



≻Strategic Actions



Where...

Cape Breton Health Authority

Cumberland Health Authority

Pictou County Health Authority

Colchester East

Hants Health Authority Guysborough Antigonish Strait Health Authority

Annapolis Valley Health

Capital Health IWK Health Centre

South Shore Health

SouthWest Health

Capital district Population 412,518 GPs 473

Specialists 880

Physician Services, 2011/12









So, what is a PHR?



• A complete or partial electronic health record, under the custodianship of a person(s) (e.g. a patient or family member), that holds all or a portion of the relevant health information about that person over their lifetime (Infoway).

 Stores information from many health providers in one central location, available 24/7.



A PHR enables ...



- patient e-access to their own health information
- patient ↔ provider e-communication
- patient log of OTCs, symptoms, selfmonitoring data
- patient access to targeted wellness programs



A game changer ...



- Opportunity to engage patients in new ways
- Helps people better understand their health and care for themselves
- New ways of communication, education & awareness

... for patients, providers and the health system



Why now?



- Build it now they ARE coming! (demand)
- Expected connectivity
- Get ahead of the game

... A systematic, coordinated approach to PHRs is needed



Evidence

97% of Canadians say it is 'somewhat or very important' to have their health records kept electronically for portability across the health system 1

73% of those > 55 and 70% with chronic conditions say eRecords are 'very important' compared with the population as a whole (64%) 1

Perceived Benefits: 2

- 77% Make interacting with multiple health care providers better
 76% Make accessing health care services easier and more convenient
- 76% Help me keep more informed about my health and/or the health of those I am caregiver for
- 74% Make the health case system more efficient 69% Allow me to take more control over my health and how it is managed

Most Likely to be used: 2

- Make appointments with health care providers
- View information in health records
- View lab results
- Request prescription renewals
- **View current prescriptions and medication history**
 - 1. Zelmer, J. (2011). Ipsos Reid Survey, Health information solutions for consumers: Research and plans. Healthcare Management Forum, 24(3), 144-146.
 - 2. Canada Health Infoway. (March 13, 2013). Ipsos Reid 2013 Public Opinion Tracking Survey DRAFT Report

Evidence

Excelleris — >350,000 subscribers for Myehealth¹

Sunnybrook – >27,000 patients using MyChart, online medical record²

Denmark – patient **on-line access** to health information since **2005**.³

Kaiser Permanente — **improvement** of 2.0 – 6.5 percentage points such as **HbA1c**, **cholesterol**, and **blood pressure** screening and control.⁴

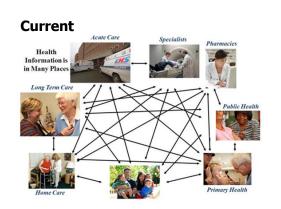
RelayHealth – Impact on Navy patients: 40% reduction in ER visits.⁵

California HealthCare Foundation — "Americans who have access to their health information through personal health records (PHRs) report that they **know more** about their health, **ask more** questions, and **take better care of themselves** than when their health information was less accessible to them in paper records" ⁶

- 1. Excelleris, News & Info, July 3, 2013
- 2. Chung, K., Personal Communication, Aug, 2013
- 3. Protti, D. & Johansen, I. Issues in International Health Policy. Vol 80, March 2010.
- 4. Health Affairs, July 2010
- 5. RelayHealth, source: HIMSS 2010 presentation, Navy Medicine National Capital Area and National Naval Medical Center
- 6. California HealthCare Foundation, April 13, 2010



We believe a PHR will ...



- improve access to health services
- extend the reach of primary health care practices
- create efficiencies for practices (patients and providers)



- easier to communicate (patient ←> physician)
- enables shared accountability for health/self managed care (as opposed to provider doing all)
- reminder systems (flu, immunization, appts)
- −↓ paper
- eReferrals



Our Approach



What we're doing ... differently



- 2 year demonstration to learn (ending March 2014)
- Non capital asset (new funding model)
- Web based solution (speed to market)
- Subscriber based (growth flex)
- Cost shared between Canada Health Infoway/DHW (75%/25%)
- Vendor is McKesson Canada; Solution is RelayHealth
- Recruitment target: 30 family physicians, 100 patients/physician
- Benefits evaluation will inform if provincial roll out is warranted



How is this being promoted to patients?

Our office is online! Good news, now you can... E-mail the Practice Get Your Test (over a secure network) Results Appointments It's Easy **To Get Started** Just give your e-mail address to our staff. **BetterCare** POWERED BY M RelayHealth

Our office is online!







c)

Test R ts App

Provide us with your email address to start managing your healthcare from the Web.

Name	

(please write your name as it appears on your healthcard)

Email

Doctor

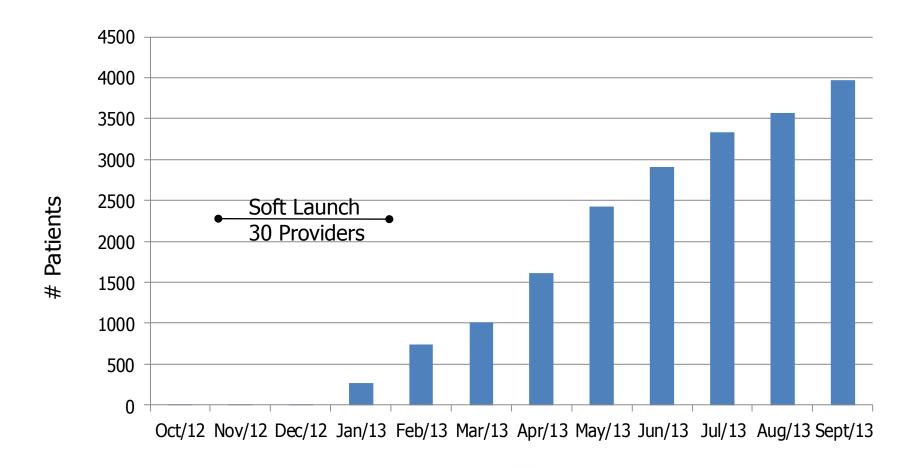
We are collecting your email address to issue you an invitation to enroll in our online communication service. Enrollment is optional. In compliance with provincial privacy legislation we will only use your email address for this purpose and will not disclose it to others without your prior knowledge and consent.





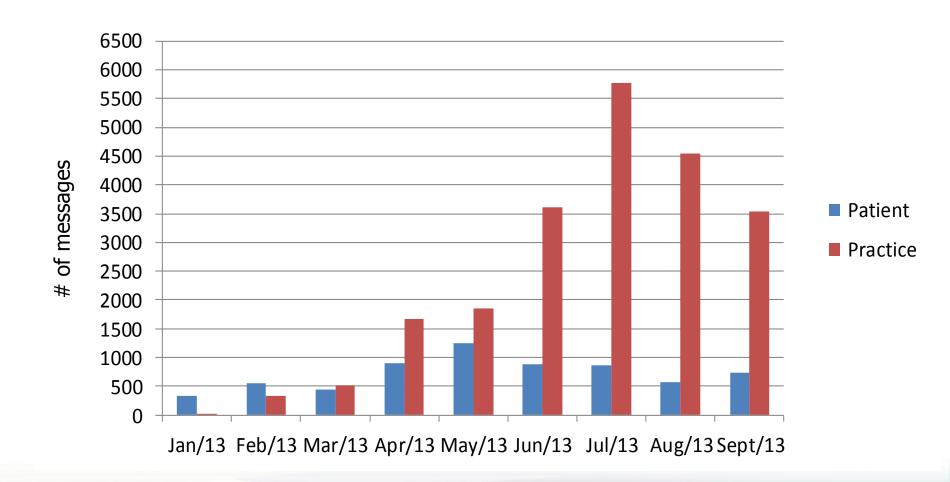


Patient adoption





PHR utilization





Change management

'Need to keep this conversation going'

Need to promote the 1-800 patient support line 'practice staff spending time helping patients' (physician)

'Much better than waiting on the phone'

'Want more frequent peer sharing meetings' (physician)

'Need to see more PHR' (Patient)

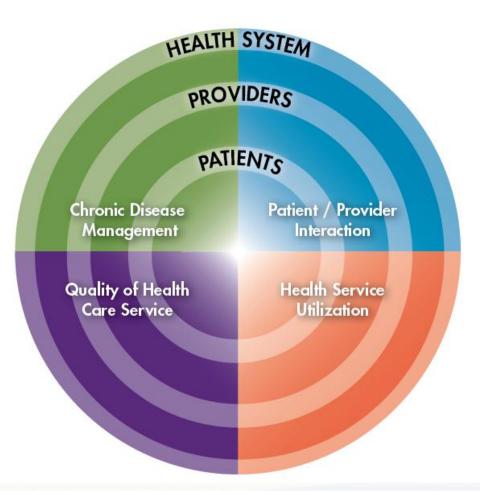
'Appointment booking and communication is wonderful' 'Great for my patients' (physician)

'Great design especially for those who are not computer literate'

·Didn't want to enter make it history as I may make it history as I may make it



Benefits evaluation model



What are the benefits of the PHR to Nova Scotia patients, providers & system?

What are the lessons learned in the demonstration project that will inform a provincial rollout strategy?



Anticipated benefits

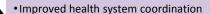
DOMAIN	PATIENT	PROVIDER
Chronic Disease Management	•↑participation in disease management (self managed health).	• ↑volume of self-reported patient info for providers to use in advising on chronic disease management.
Patient : Provider Interaction	• 个in direct communication from family practice.	• Improved communication about N test results with patients.
Health Service Utilization	Better access by patients to their personal health info.	• Improved provider capacity for patient education. Improved chronic disease management utilizing PHR visits between office visits. Improved clinical workflow.
Quality of Health care Service	• 个in patient-centered access to health services.	• ↑volume of self-reported patient info for providers to use in advising on care plans.



HEALTH SYSTEM

• Improved adherence to CDM clinical practice guidelines.

- Improved adherence to CDM clinical practice guidelines.
- Improved provider capacity for patient education and reinforcement of selfcare. Improved chronic disease management utilizing PHR visits between office visits.









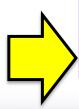
Draft indicators

	PATIENT	PROVIDER
Chronic Disease Management	•% of self-reported diabetic patients who use PHR to log blood monitoring activity	•% of self-reported diabetic patients who report being counseled by their provider based on info they entered into their PHR
Patient : Provider Interaction	•% of patients with PHR who report having received flu shot message from provider through PHR	•% of PHR patients reporting having received e-notification of a N test result and not needing a follow up call or appt
Health Service Utilization	•% of PHR patients who believe e-notification about N test results would mitigate further investigation of that health issue	• % of self-reported diabetic patients having PHR visit rather than office visit about HbA1c results
Quality of Health care Service	 Level of patient satisfaction with e-booking appts with family practice (compared with pre-PHR scheduling processes). 	 Level of provider use of self reported/patient-entered supplementary personal health information in PHR.



HEALTH SYSTEM

- % of self-reported diabetic patients using PHR who report being due for a foot assessment and having had a foot assessment
- % of self-reported diabetic patients who used pre-visit information provided through their PHR to prepare for their foot assessment.
- % of self-reported diabetic patients having PHR visit rather than office visit about HbA1c results
- % of patients willing to authorize other health providers involved in their care to access their PHR







Challenges / Lessons Learned



Challenges / Lessons Learned Sailing in uncharted waters...

- Green field great opportunity to go to cloud and not build infrastructure
- RFP process an RFI may be helpful
- Leadership knowledge of health systems, the players & community (not just IT)
- Steering Committee broad representation
 consumer co-lead (underscores philosophy of initiative)
- PDSA rapid deployment
- Culture Shift specialists bring them in early
 - support patients
 - start with the pluses
- Systems are architected to get information into the hands of providers and hospitals (not patients)

Challenges / Lessons Learned Sailing in uncharted waters...

- Physicians listen to physicians
 - Enlist 1-2 physician champions to recruit other physicians
 - Establish community of physician colleagues for sharing ideas regarding PHR utilization
- Compensation for e-work begin discussions early
- Admin staff critical to success; must have a voice in early user feedback
- PHR is not a stand alone project integration with EMR is critical for success, find synergies with other e-projects
- Patients without a regular family physician
- Good legal advice
 - technology out pacing legislation
 - custodianship
- Seek commitment as opposed to compliance spend the time!

The Way Forward



Next steps



- Integration with EMRs (NOD, Practimax, QHR)
- eReferral
- Benefits evaluation
- Link with other systems

... ? province wide rollout



VISION

One for every Nova Scotian & connected to providers

Steering Committee

College of Physicians and Surgeons of Nova Scotia
Chief, District Department of Family Practice
Dalhousie Family Medicine, family physician
Doctors Nova Scotia
CDHA Department of Radiology
Community Members (2)
DHW Chief Health Information Officer
DHW Director Monitoring and Evaluation,
Partnerships & Physician Services Branch
DHW Executive Director Primary Health Care &
Emergency Health Services
DHW PHR Project Director Mary.Russell@gov.ns.ca
DHW PHR Project Manager
Change Management and Communications Consultant
McKesson Canada/RelayHealth



First Voice



"Use your health, even to the point of wearing it out. Spend all of it before you die; do not outlive yourself." — George Bernard Shaw





My story

- 15 years of pain
- 8-12 months of combined hospital/home care
- Taking charge of my health: changes in diet, exercise, personal attitude towards ageing
- How I was introduced to RelayHealth
- How I originally made use of the system
- How my confidence in and knowledge of the potential of the system grew



Access History

Forms Submitted

Tracking Results

Import/Export Health Data

Actions

Add New Family Member

Print This Record

Title

First Name Alexandra

Middle Name Jane

Last Name Thompson

Former/Birth Name Gordon-Ingram

DOB Jul 20, 1948

Gender Female

Height 5'6"

Weight 220

Preferred Language English

Race White

Ethnicity Not Hispanic or Latino

Marital/Relationship Married

Status

Number of Children 2

Place of Birth Caterham, Surrey, England

Previous Physicians

Physician 1 Dr. Javabarathan



Clinical Data

Personal Information

Access History

Forms Submitted

Tracking Results

Import/Export Health Data

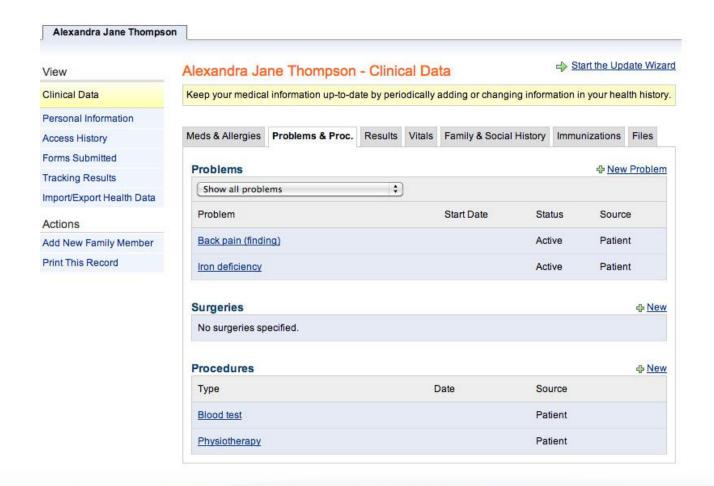
Actions

Add New Family Member

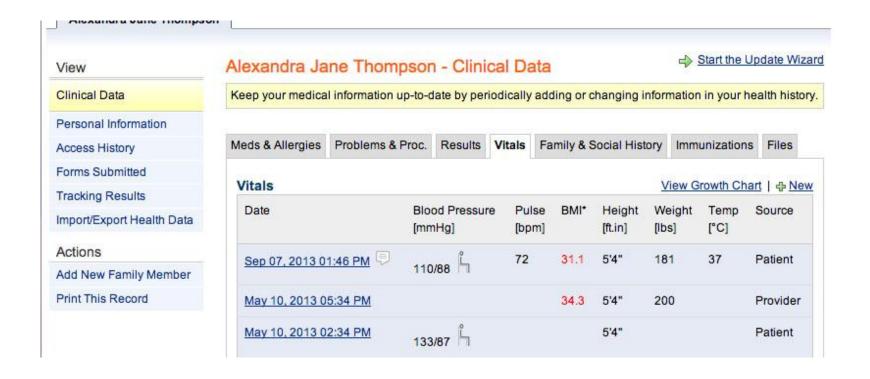
Print This Record



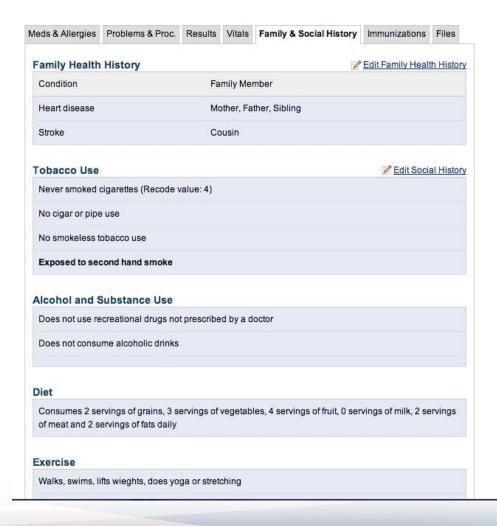






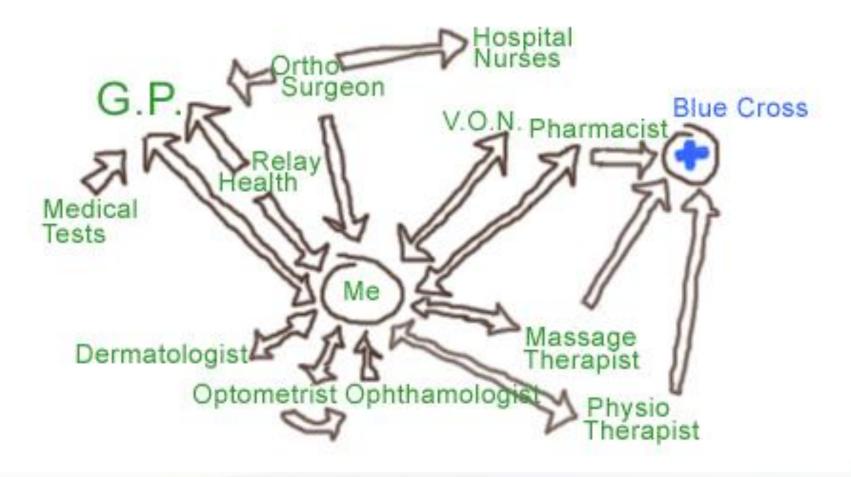






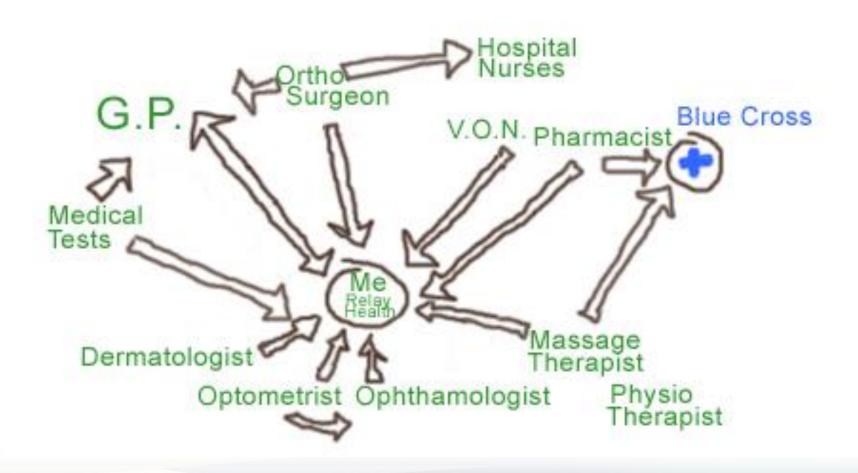


How I interact with my health care professionals today





How I hope to interact in the future





Other digital methods I use to take charge of my health

- APPS!
- To record daily calories, time and intensity of daily exercise
- To track my daily walking
- To keep check of health appointments, times to refill prescriptions
- To monitor results, such as physio weighttraining or U.V. treatment for dermatitis



First Voice



Thank You

