





Implementing a Secure Patient Portal at

a Pediatric Hospital

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Pediatrician and CMIO











Objectives

1. Overview of patient health portal: CHEO MyChart

2. Discuss MyChart implementation approach

3. Present initial results of MyChart access & lessons learned

No Conflict of Interest to declare





Children's Hospital of Eastern Ontario

- 167 bed tertiary care hospital
- Referral Base: ~ 2 million
 - 194,000 outpatient visits to 63 specialty clinics
 - Regional trauma center and Level III NICU
 - Pediatric Care to Eastern Nunuvat
- Enterprise Epic implementation
 - EpicCare Ambulatory
 - Epic lab: Beaker
 - Patient Access and Revenue Cycle
 - Patient Health Portal







(Section 2) 's Epic Electronic Health Record Trainees **Health Professionals External Providers** Nurse Practitionner: Other External Other External Patient Applications Organizations & Families e-CHN, OLIS, CDR **EORLA Physicians** Patient Care Reporting Letters Other CHEO Assessments Applications EpicCare Progress Notes Patient Diagnostic Imaging Ambulatory, Inpatient, ASAP Instructions Dictation OpTime, Anesthesia, Beacon **Nursing Team** Orders & Rx InBasket Allergies Epic Communications MyChart Patient Hist Requisitions Diagnostic Imaging Team Scheduling Workflow Tracking Patient Referrals Results Patient Service Cherks Management Reporting Decision Support Reporting Team Release of Health Records Information Billing Team Medication Clinical Managers Coding Verification Senior Management

Lab Team

Pharmacy Team

IS Team

Administrative Assistants

Billing Clerks





Benefits are being Realized



134 pt/proxy accessed their record through MyChart



65,559 medication orders ~ 1-2% rapid change/mo



> 1 million procedure orders (e.g. lab, DI)

~ 1-2% duplicates/mo

Patients

BedBoard supporting patient flow



Providers

System

1,059 unique users/mo accessed 331,180 records



> 1 million less lines of transcription in 2014



Up to date as of Apr, 2015





- Tethered PHR
 - Patients & designated proxy
- Features live today:
 - Future & past visit information
 - Reminders and After visit summary
 - Health information including:
 - Test Results (lab, imaging)
 - Allergies, Medications, Health Issues
 - Updates to health information by patient/proxies
 - Growth Charts
 - Secure two-way messaging









- Consumer & Clinician Engagement
 - Canada Health Infoway Change Management Framework









- Consumer & Clinician Engagement
- Results Release

Type of Result

Lab: Normal

Lab: Abnormal

Medical Imaging

Pathology & Cytology

Not released

Sensitive Labs, Genetics

e.g. HIV, pregnancy test

Inpatient or ED Results

Specialty Procedures

e.g. Audiology, Neurophysiology, Respirology



Automatic release

Next day

10 business days; not released Fri-Sun

10 business days; not released Fri-Sun

10 business days; not released Fri-Sun





- Consumer & Clinician Engagement
- Results Release
- Privacy Decisions
 - Privacy Impact Assessment
 - Access Request Form
 - Unique Identifying Information for Activation
 - Activation code, Date of Birth. Medical Record Number (MRN)







- Consumer & Clinician Engagement
- Results Release
- Privacy Decisions
- Activation Process
 - Organizational workflow discussion
 - Processes to consider:

Deactivation

- Inappropriate Use
- Request for Deactivation by Patient
- Legal Update



Transition ages

- Pediatrics
- 12, 16, 19



发射为自24年4月

MyChart @ CHEO

Usage Results: Where are we now

Pilot in Diabetes Clinic:

- 134 users; 980 logins

Usage

- Page views: 5,633
 - 71 per user
- Lab tests (view list): 618
 - Result graphing: 107
- Appointments (view list): 339
- Medications: 293
- Growth Chart: 261



<u>Feature</u>	Hits
Proxy Access (View)	685
Lab Tests - View List	618
Messaging	443
Enter or Exit Proxy Page - Delegate	363
Lab Test - View Results	341
Future or Past Appointments - View List	339





Pilot Feedback

- Pilot of System and Use Survey (eViews)
- 14 respondents
- Complete Survey in July

Computer Skills	 92% have general or advanced skills
Gender	 69% female; 23% males; 8% missing value
Age	• 77% between 35 to 49 years
Participant Type	 11 proxies; 1 patient; 1 unknown





Pilot Feedback: User Friendliness



85% of end users *strongly or moderately* agreed the registration process was easy.



92% strongly or moderately agreed the portal is easy to use.



92% strongly or moderately agreed they feel confident their personal information is secure and private.



16% strongly or moderately disagree that results were received in a timely fashion.





Pilot Feedback: Access to Resources



In the past 12 months, end users have made telephone calls to the healthcare provider:

- Over 5 times (23%)
- 1-5 times (38%)
- None (31%)



15% avoided a phone call because of the access to health information electronically (38% not applicable).



69% strongly or moderately agreed that the portal makes it more convenient to get care or services.





Pilot Feedback: Accuracy of Health Information

23% reported the medication information to *not* be accurate.



Medication on the list that is no longer used



Medication missing from the list





Pilot Feedback: Recommending to Family or Friends



77% of users would recommend MyChart to family or friends as a tool to support their health care





Lessons Learned

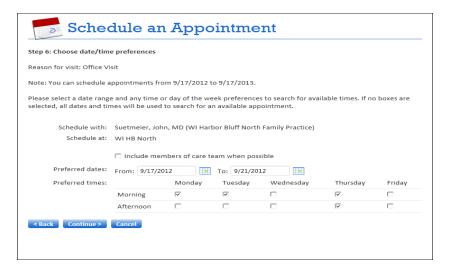
- Technology piece no problem
- Focus on organizational and process pieces
 - Good change management framework
 - Stakeholder involvement
- Pilot approach
- Operational ownership
 - Patient engagement vs Business strategy





MyChart @ CHEO: Long Term

- Appointment requests & Self-scheduling
- Sharing notes with patients & families
- Patient questionnaires
 - Clinical & Research
- Video e-visit







MyChart @ CHEO: Long Term

Population health & Disease management
Apple Health App sync with MyChart mobile app





THAT A PLANT











Welcome to CHEO's MyChart! MyChart is a secure, online patient portal that connects patients (and their parents/designated proxies) to portions of their CHEO medical record.

Questions about MyChart? Contact us at mychart@cheo.on.ca

Do not use MyChart for urgent Medical Problems. If you are experiencing an urgent medical problem, call 911 or your doctor's office immediately. © 2015 Epic Systems Corporation. Used with permission.

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My Account

Health Library Find information on:

MedlinePlus Sea

MyChart® licensed from Epic Systems Corporation, @ 1999 - 2012. Patents pending.







Details	Past Results	Graph of Past Results
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Comments from the Doctor's Office

We will discuss these results at your next visit.

Component Results

Component	Standard Range	Your Value	
AST	8-45 U/L	42	

General Information

Collected: 30/01/2015 8:22 AM

Resulted: 30/01/2015 8:23 AM

Ordered By: CHEO Physician Pediatrics, MD

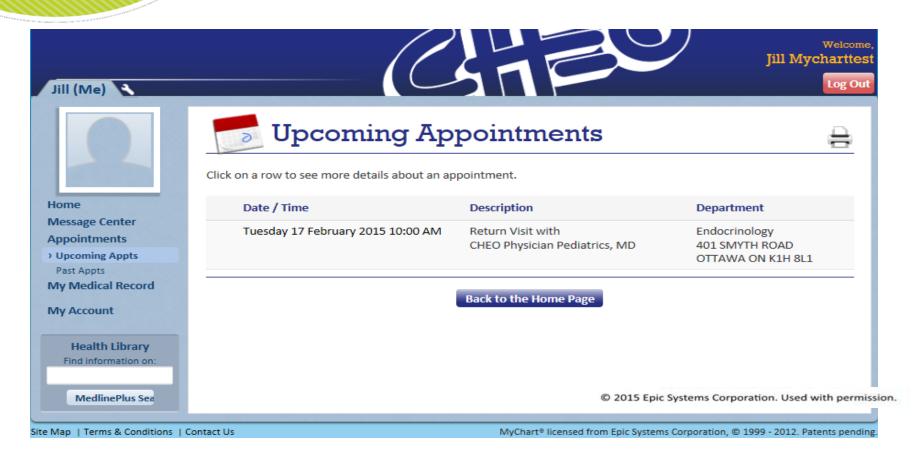
Result Status: Final result

Back to the Test Results List

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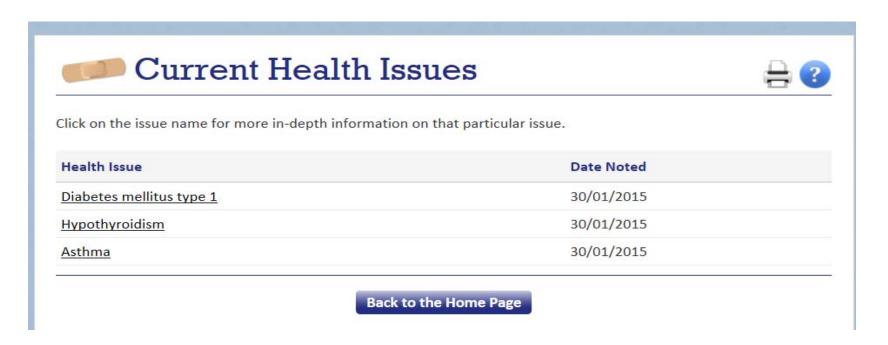












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Medications





Click on About This Medication to see additional information regarding a medication.

If you are taking additional medications, or are no longer taking medications that appear on this list, submit an update to your record.

R metFORMIN 500 mg tablet

About This Medication

Instructions: 2 tablets by oral route twice daily.

Prescribed by CHEO Physician Pediatrics, MD on 30/1/2015

Quantity: 360 tablets



insulin aspart 100 unit/mL injection

Commonly known as: NOVORAPID

About This Medication

Instructions: Use as directed. 5 x 3 ml cartridges/package

Prescribed by CHEO Physician Pediatrics, MD on 30/1/2015

Quantity: 3 Packages

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