

Canada Inforoute Health Santé Infoway du Canada

@ BC Children's, BC Women's and BC Mental Health and Substance Use Services:

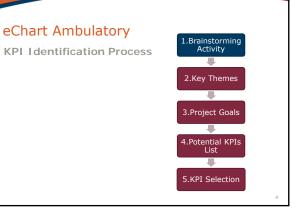
Current eChart adoption:

- eChart in use to review results & reports since 2012 by $\sim\!\!2,500$ users
- Clinical documentation by 3 inpatient areas; Mental Health, NICU and Oncology

eChart Ambulatory Project kick-off in Feb 2013:

- 18 medical clinics
- Ambulatory and Maternity Solutions:
 - Clinical assessment and documentation
 - Patient histories (social, family, procedure, etc.)
 Medication Hx, medication reconciliation and Rx
 - Medication Hx, medicatio
 - Secure messaging

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Benefits and Engagement

C&W Symposium - 27 representatives from:

- C&W Clinical Informatics
- Quality, Safety & Accreditation
- Front-line Clinical Management
- Medical Executive
- PHSA Performance Measurement & Reporting
- Planning & Performance Management, IMTIS
- Vendor partner client relations
- Project Executive sponsors from IMITS and C&W

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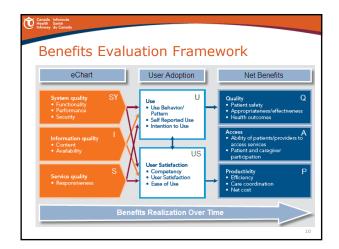
Canada Health Infoway

- Created in 2001
- \$2.1 billion in federal funding
- Independent, not-for-profit corporation
- Accountable to 14 federal/provincial/territorial governments

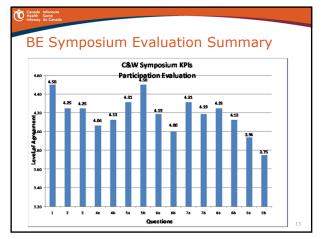
Mission:

Fostering and accelerating the development and adoption of electronic health information systems with compatible standards and communications technologies on a pan-Canadian basis with tangible benefits to Canadians. *Infoway* will build on existing initiatives and pursue collaborative relationships in pursuit of its mission.











C&W Benefits Evaluation Working Group Participants: • Decision Support (co-chair), Quality & Safety, Risk, LEAN experts, accreditation teams, clinical program managers, operations managers as well as some very keen physicians.

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- What do they have in common? They all need data! - Mutual need for quality data.
 - First time a interdisciplinary group was brought together to discus this issue.
 - Appreciated the opportunity to come together around a table to discuss their mutual need for quality data.

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KPI Summary

1. Infoway System and Use Survey 6 2. System Reports 4 3. C&W One-Time KPI Projects 3	Data Collection Method	# KPls
3. C&W One-Time KPI Projects 3	1. Infoway System and Use Survey	6
	2. System Reports	4
Total KPIs: 13	3. C&W One-Time KPI Projects	3
	Total KPIs:	13

	way du Canada		ID	USER ADOPTION	SOURCE
				User Satisfaction	
e	Chart Ambula	torv	US-1	Overall User Satisfaction	Focus Group
	roject KPIs	,	US-3	Overall User Satisfaction	Infoway Survey
				Use	
ID	ECHART System Quality	SOURCE	U-1	User Behaviour Patterns (Objective)	Lights On Report
SY-1	Number of Clinical Documentation Tools	Report	U-5	System Usage Assessment (Subjective)	Infoway Survey
SY-2	User Satisfaction with	Infoway	ID	NET BENEFITS	METHOD
	System Quality	Survey		Quality of Care	
1-2	Information Quality Data Completeness of	Clinic Record	Q-3	Efficacy of Medication Alerts	Lights On Report
1-4	Patient Profile User Satisfaction with	vs. eChart Infoway	Q-7	Patient & Family Experience	Survey
	Information Quality	Survey		Access	
S-1	Service Quality Go-live Communications and	Infoway	A-1	Patient Throughput (Flow)	Report
	Training	Survey	Productivity		
S-2	Go-live Service Quality	Infoway Survey	<u>8-2</u>	Overall Productivity (Time Savings)	Tally Sheet
in	its		8-6	Number of phone visit	Report

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C&W SUS Pre-test /Baseline

- Survey sent out April 29th 2014
- 1754 eChart users who have logged on in the past 3 months
- SUS response rate of 8% (140 responses)

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System and Use Survey (SUS)

- Standardized tool used across the country
- Customizable for each jurisdiction
- Intended to be administered soon after a project has gone live
- To be repeated to determine improvement

The questions that make up the survey were developed by evaluation Subject Matter Experts and *Infoway's* Benefit Evaluation team.

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18

1.1 In general, how satisfied are you overall with **eChart**? By "satisfied" we mean the ease and functionality, the quality of the information given and the quality of the services provided.

Response	Chart	Percenta ge	Count
Highly satisfied		8%	11
Moderately satisfied		34%	47
Neither satisfied nor dissatisfied		21%	30
Moderately dissatisfied		22%	31
Not at all satisfied		15%	21
		Total Responses	140

Please rale	e how much vo	our productivi	tv has
	creased due to	· · · · · · · · · · · · · · · · · · ·	
Response	Chart	Percenta	Count
		ge	
-50%		6%	9
-30%		8%	11
-10%		21%	29
0%		28%	39
+10%		25%	35
+30-50%		9%	12
>50%		4%	5
		Total Responses	140

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3.1 Based on your experiences to date with **eChart**, how acceptable is the quality of the system (as described by the specific characteristics listed below)? Would you say it is:

Response	Chart	Percentag e	Count
Highly acceptable		11%	15
Moderately acceptable		39%	55
Neither acceptable nor unacceptable		22%	31
Moderately unacceptable		21%	29
Not at all acceptable		7%	10
		Total Responses	140

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1.5 Do you have any experiences with **eChart** where it has improved your access to information to make timely clinical decisions to effectively initiate treatment/intervention?

• 3/93 response(s):

- Yes, community lab results most specifically
- Yes it gives the doctors blood results and images quickly when otherwise I'd be waiting for reports or films
- No, in fact the opposite. My secretary was called with a critical sample from the lab and I tried going to eChart to get the other labs and the whole system froze. After spending 15 min with IT who couldn't help me I ended up just calling the Lab & the whole process delayed critical patient care.

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4.1 In general, when thinking about the quality of the information provided by $\mathbf{eChart},$ do you find the quality of the information to be:

Response	Chart	Percentag e	Count
Highly acceptable		17%	24
Moderately acceptable		46%	64
Neither acceptable nor unacceptable		29%	40
Moderately unacceptable		7%	10
Not at all acceptable		1%	2
	-	Total Responses	140

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Next Steps

eChart Ambulatory Project Team

- KPI plan Complete
- Baseline report Complete
- Collect post-implementation measures
- Produce Project KPI Evaluation Report
 - Copy will be sent to all WG participants, C&W Clinical Informatics, project sponsors and IMTIS Project Office.

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Challenges

- "New knowledge" and Organizational Readiness
- Non-critical path activity
- Ownership of measures over time
- Limited scope, they still need more data

Successes

- New relationships and partnerships
- New understanding of current and future potential
- Some quick wins, i.e. Med Rec compliance (but only for early adopter clinics)

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Next Steps

Where do clinical leaders go for information?

- eChart For direct patient care reporting
 - E.g. Patient lists, cancelled appointments
- PHSA Data Warehouse For retrospective reports
 - E.g. volumes and trends
- Agency Quality & Safety Committees Review of appropriate use, quality, process, and related issues
 - E.g. Alert Fatigue, use of "other" field

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Presenter Disclosure

- Presenter Anne Baldwin Adrienne Cousins
- Relationships with Commercial Interests None

THANK YOU QUESTIONS ?