PharmaNet Inter-Jurisdictional Collaboration: Connecting Provincial Pharmacy Data in Health Authority Systems



eHealth Conference June 5-8, 2016 Vancouver, BC











Agenda

Item	Lead	Slide#
Panel Introductions	Cindy Convey	3-4
Organization Overview	Cindy Convey	5
Project Background	Cindy Convey	6-7
What is Medication Reconciliation?	Mary-Lyn Fyfe	8
Why are we doing this?	Mary-Lyn Fyfe	9-10
How is MedRec Completed Today?	Mary-Lyn Fyfe	11-12
How would we like to Complete it?	Mary-Lyn Fyfe	13-15
Change Management	Mary-Lyn Fyfe / Paul Squires	16
Our Strategy	Paul Squires	17
Collaborative Governance	Paul Squires	18
Enablers to Working Inter-Jurisdictionally	Todd Kinnee	19
Challenges & Opportunities	Todd Kinnee	20
Experience/Learnings to Date	Todd Kinnee / Mary-Lyn Fyfe	21
Next Steps	Paul Squires	22













Panel

Paul Squires, BC Ministry of Health

Project Director, Strategic Projects Branch

Cindy Convey, Fraser Health

Director, Corporate and eHealth Services

Todd Kinnee, Interior Health

Regional Manager, Health Information Standards and Exchange

Dr Mary Lyn Fyfe, Island Health

Chief Medical Information Officer









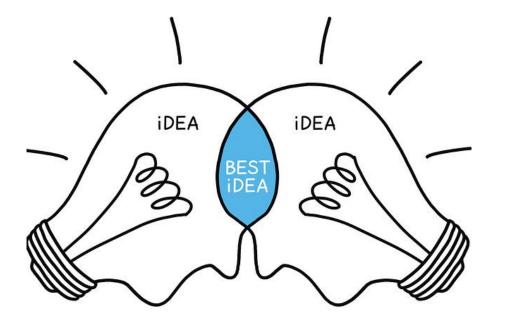






Coming together is a beginning. Keeping together is progress. Working together is success.

- Henry Ford.













Organization Overview

Ministry of Health

Provides funding & oversight.

Administers PharmaNet, the province-wide database that links all B.C. pharmacies to a central set of prescription data.

Snapshot	Interior Health	Fraser Health	Island Health
Population Served	0.75 Million	1.7 Million	0.77 Million
Annual Operating Budget	\$2.0 Billion	\$3.3 Billion	\$2.2 Billion
Hospitals	6 Regional Acute 16 Rural Acute	13 Acute 1 OP Centre	I2 Acute
Residential Care Beds	6,584	7,760	6,426
Employees	19,000	25,900	19,600
Physicians	1,500	2,500	2,150
Volunteers	4,800	6,500	6,500
CIS Platform	Meditech v6.14	Meditech v5.66	Cerner Millennium®











Project Background

- The PharmaNet Integration project supports the provincial vision to improve the delivery of patient care in British Columbia by expanding the use of electronic medication information management to facilitate seamless care.
- Accreditation Canada A Required Organization Practice (ROP).
- It is a multi-year initiative implemented in a phased approach:
 - Phase I includes the transmission of the medication profile from PharmaNet to participating Health Authority's clinical information system to support electronic Best Possible Medication History (BPMH).
 - Phase 2 includes the transmission of discharge medication reconciliation profile from Health Authority's clinical information system to PharmaNet.











Project Background

- Electronic medication reconciliation is an identified interoperability priority of Canada Health Infoway and the BC Health Sector
- BC Health Sector IMIT common and shared interest initiative
- BC's province wide PharmaNet system makes it possible
- Fraser Health, Interior Health & Island Health are early adopters
 - Island Health have two pilots in progress at its Oceanside Clinic and Nanaimo Regional General Hospital using Cerner
 - FH & Interior Meditech CIS is deployed across both organizations
 - FH, Interior & Island Health Actively integrated with the provincial electronic master patient index
 - NH and VPP have expressed interest in joining the provincial project











Understanding BPMH and Medication Reconciliation

Best Possible Medication History (BPMH)



REVIEW (≥1)

- · Pill containers
- Patient's list (+ non-Rx)
- · Internal record
- External record



VERIFY

- · Still taking?
- How much and when?



DOCUMENT

 Relevant items for each medication: name, dose, route, frequency in correct data fields



RECONCILE

 Initiate, modify, discontinue medications



ACCREDITATION
CANADA
Better Quality. Better Health.

Medication Reconciliation

A Required Organizational Practice

"Medication reconciliation requires a systematic and comprehensive review of all the medications a patient is taking to ensure that medications being added, changed, or discontinued are carefully evaluated."

INSTITUTE FOR SAFE MEDICATION PRACTICES CANADA













Why are we doing this?



Ministry of

Health







THE MOST FREQUENT DISCREPENCIES ARE DRUG OMISSIONS AND 'UNORDERED' DRUGS

1 in 200 1 in 1,000 Seniors hospitalized due to ADEs

people 65 and over hospitalized each year to

Canadians hospitalized due to ADEs

Hospitalization Due to Adverse Drug Events (ADEs)











Why are we doing this?

Prescribing 39% of Errors

38% Wrong Dose 19% Wrong Choice 12% Known Allergy 6% Wrong Frequency 4% Drug-Drug Interaction 2% Wrong Drug



Transcribing 12% of Errors

78% Illegible Signature 58% Time Missing 24% Order Incomplete 20% Order Illegible

Dispensing 11% of Errors

37% Decimal point error 23% Calculation error 19% Dosage misdivided 12% Dosage Not divided



Administering 38% of Errors

6,561 combinations of drug compatibilities







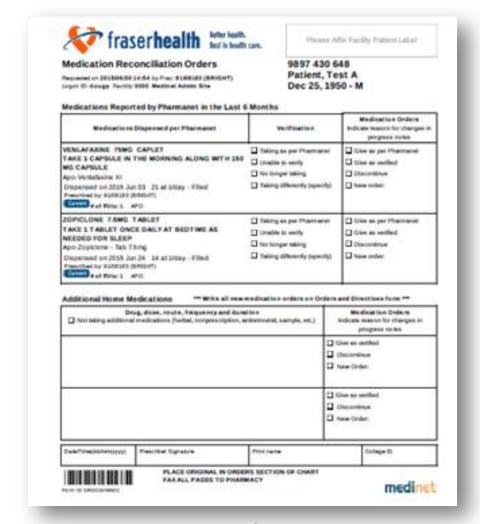






How is MedRec Completed Today?

- Electronic and Manual Processes
 - Printed PharmaNet Record
 - Island Health Piloting Electronic process
- BPMH and compliance is done on paper
- Reconciliation is done on paper
 - Stop, modify, continue
- New orders added
- Process is repeated upon discharge















Challenges with Manual BPMH and Medication Reconciliation

Care providers spend considerable time 'assembling' picture of current medications from multiple sources



Can be difficult to remember details of medications being taken

Manual transcription of medication details is time-consuming and error-

Value/quality of medication











prone



How Would We Like To Complete It?

 Use PharmaNet dispensed medication information to complete a BPMH screen within the Clinical Information System





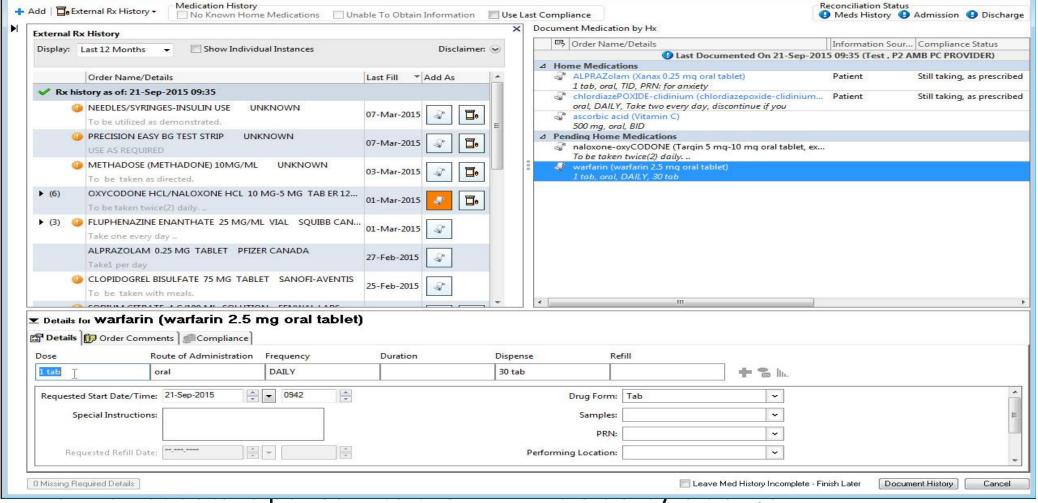








Best Possible Medication History





Ministry of

Health

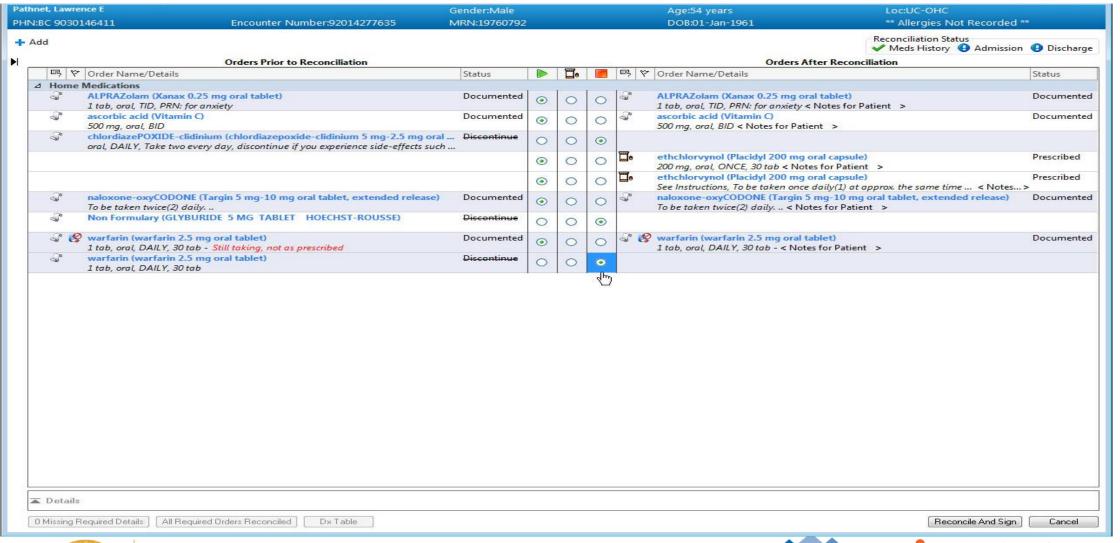








Electronic Medication Reconciliation





Ministry of

Health





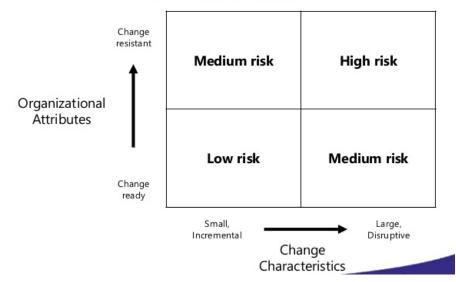




Change Management

- Multidisciplinary Change Management Team
- Active, visible Clinical Executive Sponsorship
- Physician Participation, Engagement and Leadership
- Clinical workflow Redesign
- Emergency Department Time Pressure
- Coordination and Usability of IT Infrastructure is critical
- Evaluation and Benefit Assessment / Realization

Change Management Risk Assessment















Our Strategy

- "Big 5"
- Standing Committee on IM/IT Action Plan
- Primary Care Home
- Integrated project plan
- Connecting Phase 2 with ePrescribing



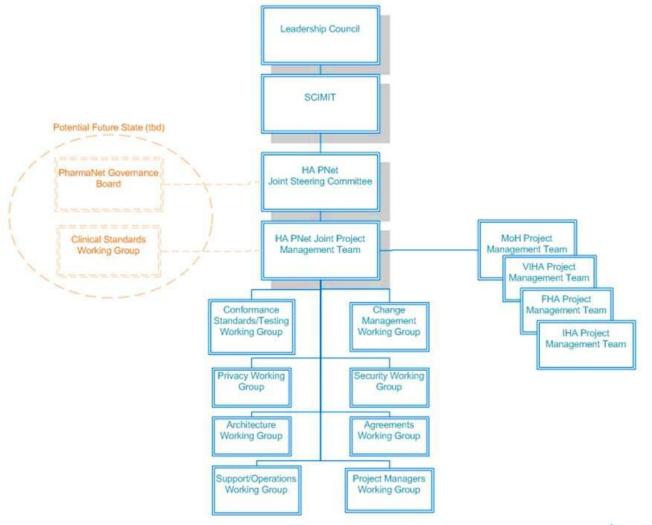








Collaborative Governance





Ministry of

Health









Enablers to Working Inter-Jurisdictionally

- Patient wellbeing & clinical need
- Sense of shared goals
- Formal structures
- Subject Matter Experts
- Collaboration technologies
- Executive support in each organization
- Canada Health Infoway support
- Strong vendor relationships











Challenges & Opportunities

- Collaboration technologies
- Perspectives: clinical practice vs. policy
- Decision making ability and formal communication
- Overall project schedule coordination
- Standards
- Different clinical workflows
- Different Health Authority technical approaches











Experience/Learnings to Date

- Importance of pilot implementations (Island Health)
- Periodic face to face meetings
- Clinical demonstrations of current state within the Health Authority to understand workflows
- PharmaNet limitations/ HA proposed resolutions to address clinical workflow
- Complexity of coordinating technical and development changes
- No simple integration projects











Next Steps

- Vendor conformance testing
- Pilot sites Go Live in Interior Health
- Third pilot site Go Live in Island Health
- Pilot sites Go Live in Fraser Health
- Pilots across the continuum of care
- Rollout across acute care facilities
- Reach out to other health authorities
- Canada Health Infoway Checkpoint
- Benefits evaluation & lessons learned











Questions













