

Canadian Pharmacists Conference 2015

Innovation and Collaboration

Medication reconciliation: A look within and beyond the hospital walls

Patti Madorin BScPhm, ACPR

Vincent Teo BScPhm, PharmD

Sunnybrook Health Sciences Centre

Leslie Dan Faculty of Pharmacy, University of Toronto



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Jointly presented by the Canadian Pharmacists Association (CPhA) and the Ontario Pharmacists Association (OPA)

Disclosure

Vince Teo

- None to declare

Patti Madorin

- None to declare

... we both feel MedRec is very important!



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Learning objectives

- Describe the rationale for medication reconciliation and associated interventions across the health care spectrum
- Describe what is known about the spread and degree of uptake of these interventions in the hospital sector
- Describe current gaps and barriers to integration of medication reconciliation across all spectrums of healthcare
- Describe one organization's experience (Sunnybrook's journey) in medication reconciliation



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Nature of the problem in hospital

- 50% of patients will have at least one medication discrepancy (error) on admission
 - 39% have the potential to cause moderate to severe harm
- Similar at transfer and discharge
- Patients admitted to hospital are at greater risk of unintentional discontinuation of evidence based chronic therapies resulting in increased risk of death, hospitalization and ED visits in the following year

Cornish PL, Knowles SR, Marchesano R, et al.. Arch Intern Med 2005;165:424-9; Kwan Y, Fernandes OA, Nagge JJ, Wong GG, Huh JH, Hurn DA, et al.. Arch Intern Med. 2007;167:1034-40; Wong JD, Bajcar JM, Wong GG, Alibhai SM, Huh JH, Cesta A, et al. Ann Pharmacother. 2008;42:1373-9.; Bell CM, Brener SS, Gunraj N, et al. JAMA 2011;306(8):840-47.



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What happens to the accuracy of the medication history in community?

- Only 44% of primary care physicians reported medications prescribed by an external physician on their patient's profile
- Primary care provider medication lists were completely accurate only 1-8% of the time

Spina JR. Med Care 2011; 49:904-910.

Balon J. J Nursing Scholarship 2011; 43(3):292-300.

Barber K, Elms S, Martin D. Making a case for medication reconciliation in primary care. National Medication Reconciliation Webinar February 12, 2013



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What's happening - selected

- Accreditation Canada
 - MedRec across all transitions in all services by 2018
 - Includes selected patients in ambulatory care and selected non-admitted ED patients
- Safer Healthcare Now!
 - Getting Started Kits (GSKs) for Acute Care, Home Care and Long-Term Care



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What's happening - selected

- ISMP/ Health Quality Ontario (HQO)
 - Ontario Primary Care MedRec Guide (http://www.ismp-canada.org/download/PrimaryCareMedRecGuide_EN.pdf)
- Health Quality Ontario
 - Quality Improvement Plans (Admission and Discharge MedRec)
 - bestPATH supporting Healthlinks (coordinated care for complex patients)



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How are we doing?

- Hospital
- Community



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Hospital

- Audit methods and measurement criteria vary making comparisons of MedRec rates difficult
 - Accreditation Canada
 - National MedRec Quality Audit
 - Health Quality Ontario (Quality Improvement Plans – QIPs)



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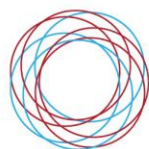
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Accreditation Canada

ROP	Compliance with Standard (%)		
	2011	2012	2013
MedRec as an Organizational Priority (Development and implementation of an organizational plan)	77	82	90
MedRec at Admission*	60	71	70
MedRec at Transfer/ Discharge*	50	62	61

* At least one client service area



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National MedRec Quality Audit

- February 2015 (initial audit was Oct 2013)
 - 173 sites across the country volunteered to participate
 - 5,201 patients/residents reviewed



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National MedRec Quality Audit tool

MedRec Completed*	Collect	Compare	Communicate		
B. MedRec Performed <input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> NO MEDS	C. BPMH >1 source <input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> UNCLEAR	D. Actual Med use verified by Pt/Caregiver source <input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> UNCLEAR <input type="checkbox"/> UNABLE TO REFORM	E. Each med has drug name, dose, strength, route, frequency on BPMH and Admission Orders <input type="checkbox"/> YES <input type="checkbox"/> NO	F. Every med in BPMH is accounted for in Admission Orders <input type="checkbox"/> YES <input type="checkbox"/> NO	G. Prescriber has documented rationale for 'Holds' and 'Discontinued' meds <input type="checkbox"/> YES, N/A <input type="checkbox"/> NO <input type="checkbox"/> UNCLEAR

*Organization's own definition



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MedRec Quality Score

JUL AUG SEP OCT NOV DEC | Enter Day as double digit (e.g. 03, with 0 on top row and 3 on bottom row)

Sample Includes: ☐ ALL ADMISSIONS ☐ SUBSET OF ALL ADMISSIONS

Pt #	A. Admit via	B. MedRec Performed	C. BPMH >1 source	D. Actual Med use verified by Pt/Caregiver source	E. Each med has drug name, dose, strength, route, frequency on BPMH and Admission Orders	F. Every med in BPMH is accounted for in Admission Orders	G. Prescriber has documented rationale for 'Holds' and 'Discontinued' meds	H. Discrepancy communicated, resolved, and documented
1 VOID <input type="checkbox"/>	<input type="checkbox"/> EMERG <input type="checkbox"/> PRE-ADM <input type="checkbox"/> DIRECT <input type="checkbox"/> OTHER	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> NO MEDS	<input type="checkbox"/> <input type="checkbox"/> <input type="checkbox"/>	To calculate a <i>MedRec Quality Score</i> , each "Yes" (or "Unable to Perform") is assigned 1 point for each of the highlighted columns			<input type="checkbox"/> YES, N/A <input type="checkbox"/> NO <input type="checkbox"/> UNCLEAR	<input type="checkbox"/> YES, N/A <input type="checkbox"/> NO <input type="checkbox"/> UNCLEAR
2 VOID <input type="checkbox"/>	<input type="checkbox"/> EMERG <input type="checkbox"/> PRE-ADM <input type="checkbox"/> DIRECT <input type="checkbox"/> OTHER	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> NO MEDS	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> UNCLEAR	<input type="checkbox"/> YES <input type="checkbox"/> NO <input type="checkbox"/> UNCLEAR <input type="checkbox"/> UNABLE TO PERFORM	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES <input type="checkbox"/> NO	<input type="checkbox"/> YES, N/A <input type="checkbox"/> NO <input type="checkbox"/> UNCLEAR	<input type="checkbox"/> YES, N/A <input type="checkbox"/> NO <input type="checkbox"/> UNCLEAR



What was learned?

Acute care (91% of patients) Long-term care (9% of patients)

- 80% of audits indicated that “MedRec was performed”
 - 40% of audits had a MedRec Quality Score of 5/5 (i.e., all of the quality components of admission MedRec were performed)
 - Average quality score 3.5/5
- 98% of audits indicated that “MedRec was performed”
 - 30% of audits had a MedRec Quality Score of 5/5 (i.e., all of the quality components of admission MedRec were performed)
 - Average quality score ~3.6/5



Health Quality Ontario (HQO)

- “Transforming Ontario’s healthcare system”
 - Better patient experience
 - Better patient health outcomes
 - Better value for money
- Quality Improvement Plans (QIPs)
 - Set targets, identify change ideas, methods, measures and goals
 - Admission MedRec, Discharge MedRec



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Common themes from hospital QIPs

- Roles and accountabilities
- Education
- Measurement
- Technology
- Scaling up, spread
- Quality



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Common themes from hospital QIPs



- “SHN audits for quality”
- “Design, test and utilize quality endpoints”
- “Define and communicate accountabilities for accuracy”
- “Dedicated pharmacy technicians for efficient, high quality BPMHs”



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MedRec indicator on QIPs

- Hospitals report a wide range of baseline admission MedRec rates
- In 2014/2015
 - 45% of hospitals improved their admission MedRec rates
- More hospitals are including improvement initiatives for Discharge MedRec

www.hqontario.ca/portals/0/Documents/qi/qip-analysis-hospital-en.pdf



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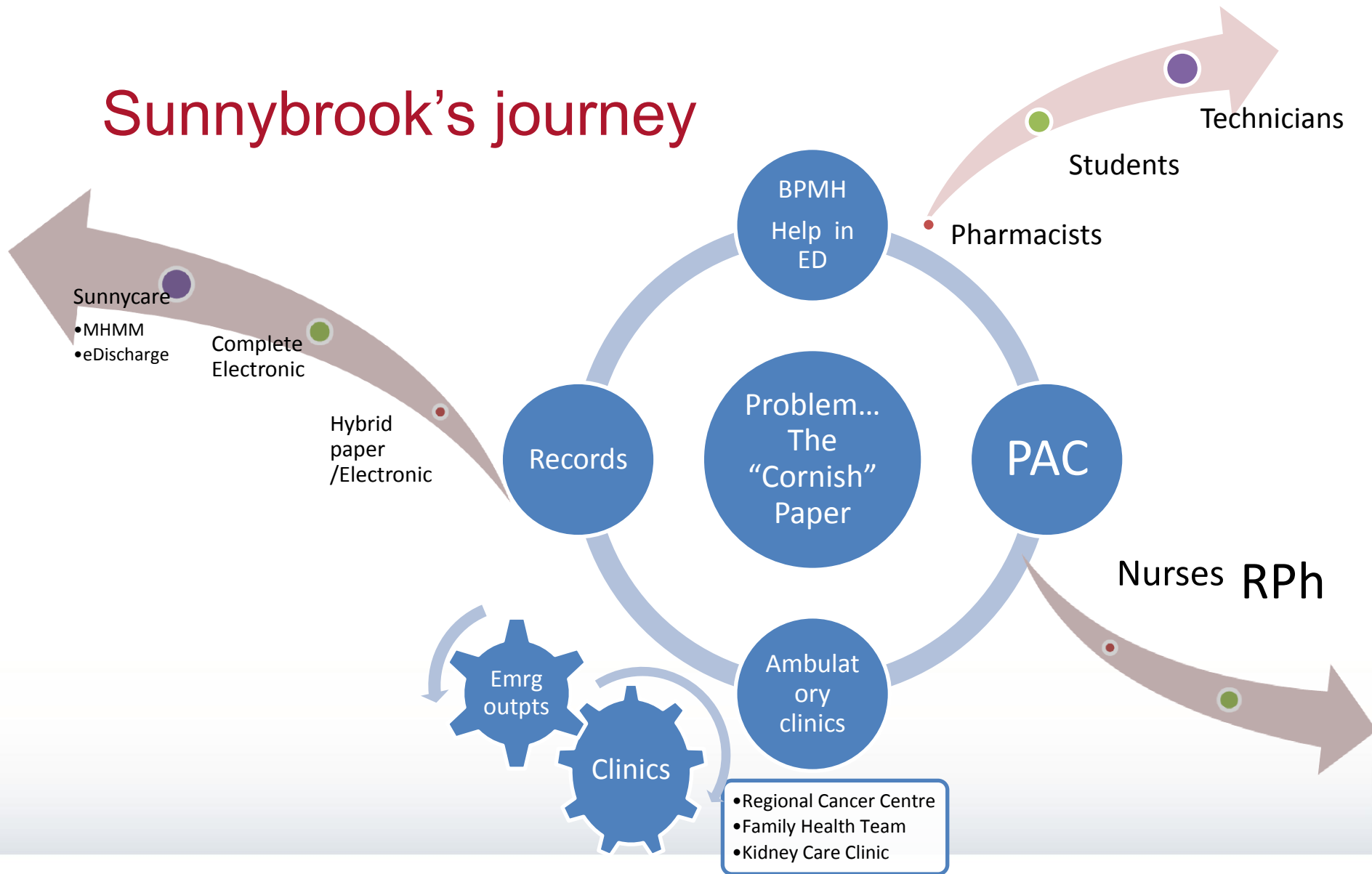
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Sunnybrook's journey



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MedRec as an interprofessional process

- Pharmacists
- Pharmacy technicians
- Pharmacy students
- Nurses
- Physicians



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Pharmacists, BPMH and MedRec

BPMH

- More accurate and complete than other health care professionals

Reeder TA, Mutnick A. Am J Health Syst Pharm 2008;65(9):857-860.

Carter MK, Allin DM, Scott LA, Grauer D.. Am J Health Syst Pharm 2006;63(24):2500-2503

MedRec

- In studies where medication reconciliation has had a positive impact on clinically significant events
 - Pharmacists play a key role
 - Part of an interprofessional process that supports optimal medication management
 - Reduces preventable adverse medication events (post-discharge)

Fernandes O. Shojania KG. Healthc Q 2012;15(Special);42-49.

MARQUIS Manual.

http://tools.hospitalmedicine.org/resource_rooms/imp_guides/MARQUIS/Marquis_Manual2011.pdf

Schnipper JL Arch Intern Med 2006;166:565-571



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Pharmacy students and nurses

Pharmacy students

- Able to obtain BMPH's from patients
- Able to determine discrepancies during reconciliation resulting in positive impact in patient care
- Able to identify significantly more medications on patient's BPMH
- Limitations and gaps in literature
 - Supervised student pharmacists
 - No direct comparison to pharmacists

Lancaster JW, Grgurich PE. *Am J Pharm Educ* 2014; 78 (2) Article 34.

Lubowski TJ, Cronin LM, Pavelka RW, Briscoe-Dwyer LA, Briceland LL, Hamilton RA. *Am J Pharm Educ* 2007;71(5):94.

Padiyara RS. *J Am Pharm Assoc* (2003). 2008;48(6):701.

Walker PC, Tucker Jones JN, Mason NA. *Am J Pharm Educ*. 2010; 74(2):Article 20.

Nurses

- Nurse – pharmacist collaboration
 - Decreased discrepancies, prevented harm
 - Cost-effective

Feldman LS. *Journal of Hospital Medicine* 2012;7:396–40



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Pharmacy technicians

- BPMH's obtained by pharmacy technicians
 - Decreased medication discrepancies
 - Decreased adverse drug events
 - Similar accuracy and completeness as pharmacists

* “trained” pharmacy technicians

Michels RD, Meisel SB.. Am J Health-Syst Pharm 2003; 60: 1982-6

van den Bemt et al, Ann Pharmacother 2009; 43(5): 868-74

Leung et al, Can J Hosp Pharm 2009; 62(5): 386-91

Johnston R, Saulnier L, Gould O. Can J Hosp Pharm 2010;63(5):359–365



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The challenge

Every institution's discharge is another's admission
-Author Unknown



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What do we know about people who come to EDs?

- ADEs are responsible for 1 out of 9 (12%) of ED visits
- Most commonly due to adverse drug reactions (39%), non-adherence (28%), and wrong/ suboptimal drug (12%)
- 68% were deemed to have been preventable
- Emergency physicians attribute ~37% of presentations deemed medication – related to a non-medication related cause (1/3 are missed)
- Odds of being admitted was double (OR 2.18)

Zed PJ et al. CMAJ 2008;178(12):1563-9
Hohl CM et al. Ann Emerg Med. 2010;55:493-502



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Why are medication histories so bad in community patient records?

- Not primary care culture (at least not yet!)
- Lack of communication – multiple prescribers, emergency room reports, specialist consults
- Multiple pharmacies used
- Samples not recorded

Sears K, Scobie A, MacKinnon NJ. Can Pharm J 2012;145:88-93.



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Hmmm... all
up to me
again?

Home
care

Emergency

Anyone out
there?

Ambulatory
clinic

Community
Pharmacist

Is that an
echo?

I'm so
lonely...

Specialist
1

Hospital

Family
MD

Specialist2



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One example of connecting silos

- MOHLTC + OMA working through MCPWG
 - Demonstration projects to Improve the Care of Medically Complex Patients for Ontario General and Family Practice Physicians
 - Sunnybrook's FHT, Emergency, Allied Health, CCAC, Patient Collaborative
 - Patients at high risk for emergency visits
 - Developing a *shared* care plan (includes MedRec)
 - Connecting community and hospital pharmacists
 - Data gathering
 - Development of a working model
 - Outcome measurement



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How to keep the ball rolling?



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Medication Management

Medication management is defined as patient-centred care to optimize safe, effective and appropriate drug therapy. Care is provided through collaboration with patients and their health care teams¹

Clinical Medication Review

Addresses issues relating to the patient's use of medication in the context of their clinical condition in order to improve health outcomes²

Medication Reconciliation

A formal process in which healthcare providers work together with patients to ensure accurate and comprehensive medication information is communicated consistently across transitions of care³

Best Possible Medication History

A complete and accurate list of all the medications a patient is taking created using at least 2 sources of information including a client and/or family interview⁴

Developed collaboratively by CPhA, CSHP, ISMP Canada, UofT Faculty of Pharmacy, 2012



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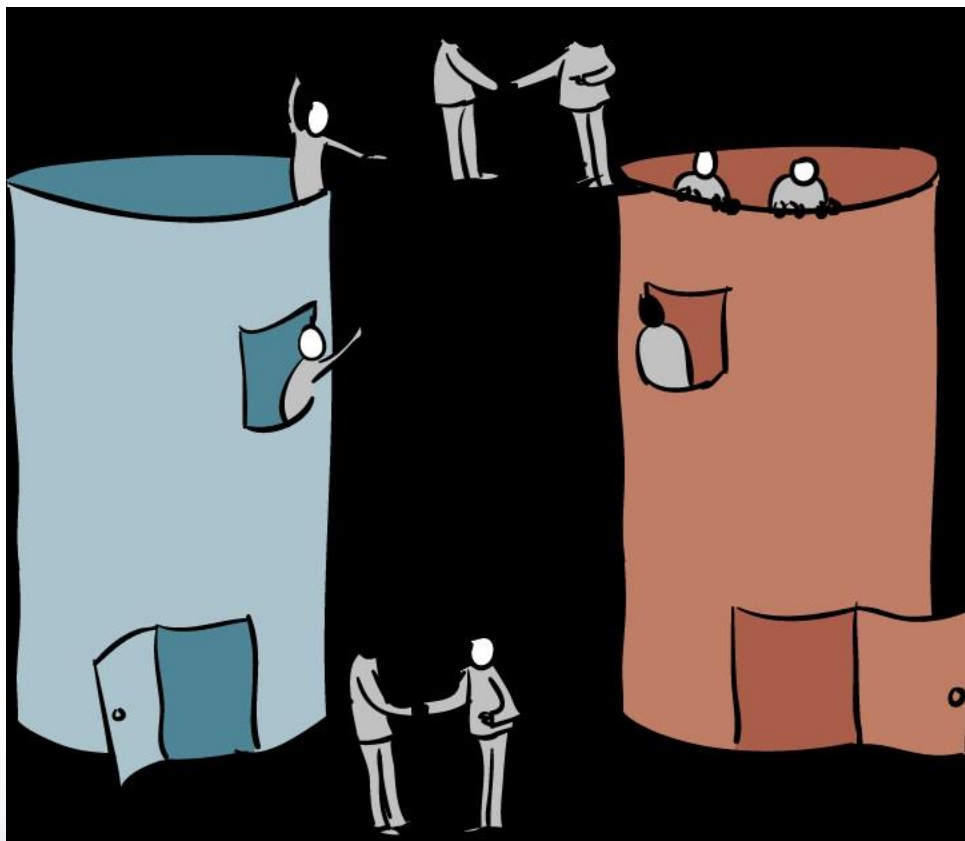
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Connecting silos



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Interprofessional teamwork



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Role of the patient

- We must ensure work completed in one practice setting is transferred to all practice settings a patient may visit
- The patient is often relied upon to transfer information between practice settings
- Keeper of information
- How can we support our patient?



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Recap...

- Medication reconciliation is an important part of medication safety
- There has been a lot of focus on achieving medication reconciliation related goals in hospital over the last 5-10 years
 - Shifted from just quantity to measuring quality
- There are a variety of strategies being employed
- We must ensure work completed in one practice setting is transferred to all practice settings a patient may visit



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Useful links

- Safer Healthcare Now! (see interventions and national calls)
 - <http://www.saferhealthcarenow.ca/EN/Pages/default.aspx>
- CPSI Community of Practice
 - <http://tools.patientsafetyinstitute.ca/Communities/MedRec/default.aspx>
- ISMP
 - <https://www.ismp-canada.org/medrec/>
- Marquis
 - http://tools.hospitalmedicine.org/resource_rooms/imp_guides/MA_RQUIS/Marquis_Manual2011.pdf



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Useful links to use with patients

- Dr. Mike Evans
 - www.youtube/user/DocMikeEvans
 - ‘One simple solution for Medication Safety’



- Knowledge is the best medicine
www.knowledgeisthebestmedicine.org

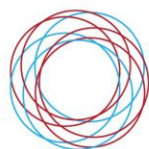
- “My Med Rec” App
 - (for Android, Blackberry, iPhone)
 - developed with ISMP

Medication/Immunization Record
Up-to-date medication list with you at all times

Multiple Patient Profiles
Easy access to your and your loved one's health information

Dose/Refill Reminder
Reminds you to take your medications on time and when they need to be refilled

Email Information
Keep your healthcare team, family etc. up-to-date by sending them information directly



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Questions?



Hand with Reflecting Sphere by M. C. Escher. Lithograph, 1935.



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