Medication Reconciliation: Between Hospital and Home

Jasneet Parmar, MBBS, Dip.COE

Associate Professor
Division of Care of the Elderly
Department of Family Medicine, University of Alberta

Medical Director, CH Network of Excellence in Seniors' Health and Wellness

Medical Lead, AHS Edmonton Zone Home Living and Transitions

March 06, 2016





Faculty/Presenter Disclosure

- •Faculty/Presenter: Jasneet Parmar
- •Relationships with commercial interests:
 - -Grants/Research Support: Not applicable
 - -Speakers Bureau/Honoraria: Not applicable
 - –Consulting Fees: Not applicable
 - Other: This presentation has received support from the Albert College of Family Physicians in the form of a speaker fee.





Learning Objectives

Participants will be able to:

- Learn about the issues of medication management in seniors at transitions of care
- Consider medication reconciliation as a strategy in a family physician's clinic
- Become familiar and use the resources for medication reconciliation





Cynthia



Cynthia, an 80-year-old lady, visits you, her family physician, for follow-up after discharge from hospital, accompanied by her daughter. She has recently been discharged after a four week stay in hospital for complications from coronary artery disease and congestive heart failure. She also suffers from diabetes, hypertension, and osteoporosis. Her discharge diagnosis includes mild cognitive impairment. Towards the end of the 15-minute visit, you review her medications and count 12 of them!

The family physician has limited time to address all the patient's concerns, including optimizing medications







The older adult with multiple co-morbidities will typically have a have a long list of medications. Seniors with 3 or more chronic conditions are taking an average of six prescription medications (CIHI, 2011).



Photo from: https://upload.wikimedia.org/wikipedia/commons/1/10/Mediciner_(Small).jpg





Polypharmacy, particularly >5 medications, is associated with increased incidence of drug-related adverse events. In 2010-2011, 1 in 200 Canadian seniors (more than 27,000 seniors) had hospitalizations related to adverse drug reactions (CIHI, 2013).







Adverse events including medication errors are common in the post-discharge period.

The health system currently has significant deficiencies in safety at discharge (Snow, 2009).

Medication errors tend to occur in transitions of care (Desai, 2013).





Strategies for Medication Management

Medication management in family physician's offices are being done through a variety of interventions (Kucukarslan, 2011) that may include:

- a. Collaboration among healthcare providers physicians or prescribers, pharmacists, nurses or care coordinators, and case workers
- b. Telephone or face-to-face follow-ups
- c. Creation of algorithms and treatment plans





Definition: "Medication reconciliation is a formal process in which healthcare providers work together with patients, families and care providers to ensure accurate & comprehensive medication information is communicated consistently across transitions of care."

(Institute of Safe Medication Practices in Canada: ISMP)





- It has been identified by the W.H.O., as part of their High 5s project, highlighting the top 5 safety priorities internationally.
- MedRec is an Accreditation Canada Required Organizational Practice (Accreditation Canada, 2012)
- It is a major safety initiative to improve communication about medications as patients' transition through healthcare settings.





- It is a fundamental to medication management and builds on the medication 'history- taking' physicians have been using for years.
- It helps the physicians make the appropriate (de)prescribing decisions for their patients and is an opportunity to encourage patients to be involved in the medication safety (Frank, 2014).



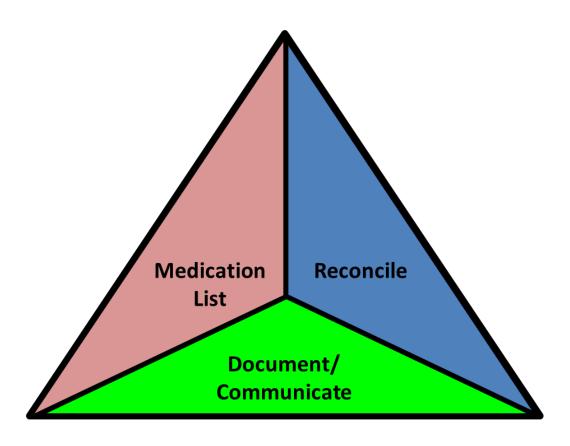


It requires:

- a. Best Possible Medication History(BPMH):
 Generation of a complete and up to date
 medication list including drug name, dosage,
 route and frequency
- b. Reconciliation of the medication list and identification of discrepancies
- c. Documentation and communication







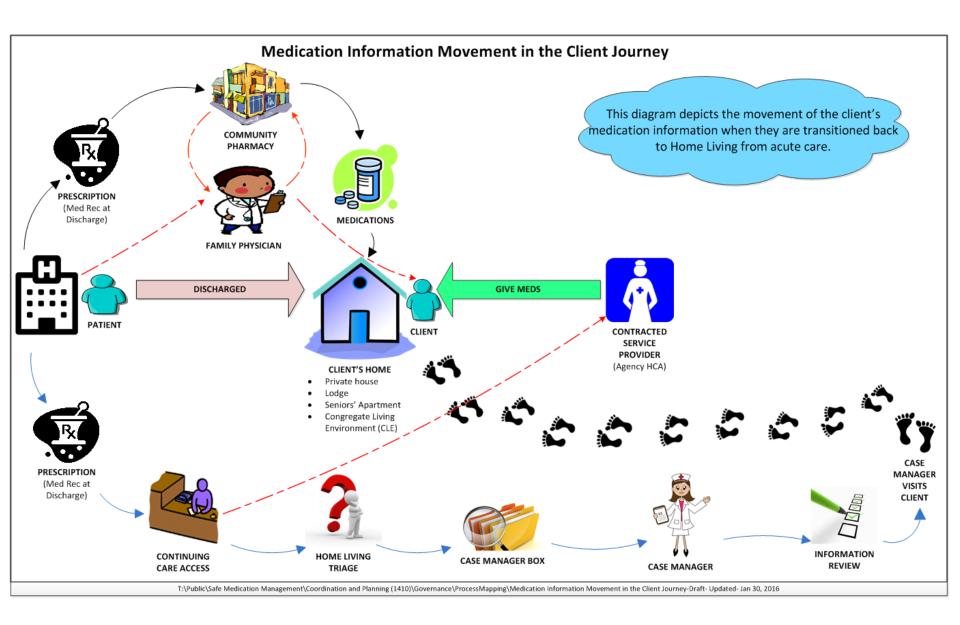




- It is done during admission and discharge from hospital.
 - http://insite.albertahealthservices.ca/assets/acrd/tms-acrd-medrec-strategic-priority.pdf
- It is being done across Alberta Health Services and Covenant Health as patients' transition between care settings.











 Case managers are responsible for MedRec at admission for clients on homecare in the community. They are expected to provide the same when their clients are being discharged home from hospital.







Home Living/Supportive Living – Edmonton Zone Medication Record (Medication Reconciliation)

(AFFIX CLIENT LABEL OR ADDRESSOGRAPH)

Prescriber Guidelines

- The following Medications are currently being taken by the client.
- If any medications are to be discontinued or changed, notify the pharmacy by sending in a prescription.

Allergies:

Best Possible Medication History (BPM	Comparison				
Medications that client is currently taking: include insulin, over the counter (OTC), drops, patches, creams, injections, inhalers, sprays, vitamins and herbals Dose/Route/Frequency	Prescriber	Pharmacy	Comments (include any discrpancies identified between BPMH and other sources and any pertinent start/stop dates)	Discrepancy Code	Discrepancy Info Source

Prescriber:	a.	ph#			Ir	nformation Source		Discrepancy Codes		
	b.	ph#			☐ A – CI	lient		1. No discrepancy		
c.		ph#			☐ B – Ca	Caregiver		2. Med not currently prescribed		
	d.	ph#			□ C – M	ledication vials		3. Client not taking med		
e. ph#		ph#			☐ D – Client's own med list			4. Different frequency		
Pharmacy:	1.	ph#			□ E – Bι	- Bubblepack/Dosette		5. Different route		
	2.	ph#			□ F – N∈	etCare PIN Profile		6. Different dose		
	3.	ph#			☐ G – Di	scharge info from F	acility	7. OTC not taken as directed		
	4.	ph#			☐ H – Ot	ther		8. Other		
Medicat	tion Record sent to Presc	riber			l					-
Yes	Prescriber: □ a. □ b. □ c.		[☐ No ☐ Client managing medication ☐ Client following up with prescriber				☐ Client refused ☐ Other		
								5.		
Assessor Name			As	Assessor Signature				Date		

MedRec for Home Care



- 1. Identify the Client
 - Ensure MedRec is completed.
- Create the Best Possible Medication History and Identify the Differences
 - Minimum of 2 sources
 - Establish what medication the client is actually taking
 - Identify and document differences





MedRec for Home Care



3. Resolve and Communicate Differences

- Identify differences that require resolution by a prescriber
- Work with client to initiate resolution of differences
- Document actions taken
- 4. Close the Medication Reconciliation Loop
 - Confirm that resolution of differences has occurred
 - Educate the client and/or caregivers
 - Document actions taken





MedRec in Primary Care:

Environmental scan

Primary Care Networks (PCNs) in Alberta have started to use the materials offered though the online portal for resources and tools:

- 1. Bow Valley PCN is using public materials to encourage and support patients in creating and maintaining their own medication list.
- 2. Kalyna County PCN currently doing medication reviews with their geriatric population.
- 3. Peaks to Prairies PCN –have identified MedRec as a possibility and plan to examine the materials that are available and support mechanisms.
- 4. Red Deer PCN will do MedRec/medication review if it is requested by a physician for a particular patient

MedRec in Primary Care:

Environmental scan

- 5.Oliver PCN has a MedRec process where high risk patients discharged from hospital are identified for medication review with the pharmacist. Other patients get flagged based on set criteria regarding risk.
- 6. Calgary Rural PCN has had success in partnering with the hospital in Strathmore project on seamless discharge, as well have a team of pharmacists that support medication reviews within the PCN.
- 7.Heartland PCN is examining medrec possibility within smaller communities (e.g. Redwater) and hope to build off the success there.



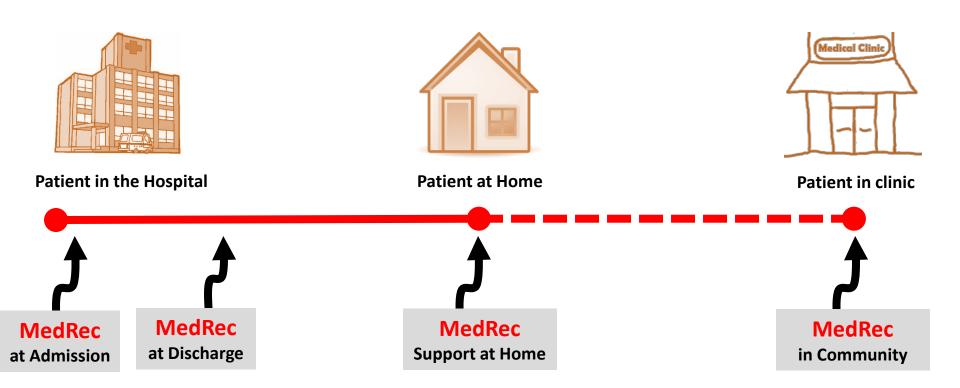


MedRec in Primary Care:

Environmental scan

- 8. Edmonton Southside PCN conducting research regarding the information coming from hospitals, partnering with AHS & CH, including med management.
- 9. Edmonton West PCN have a similar program to Oliver PCN for targeted patients. As well, have tried to establish links with pharmacists within the hospital.
- 10. Calgary Foothills PCN Have a MedRec form that is used within the PCN for new patients; it's done as needed.
- 11.Westview PCN Pharmacists supporting physician offices will reconcile medications for patients once a discharge summary arrives from the hospital (if needed), additionally pharmacists support complex care plans and medical assessments with medication reviews if needed

The Journey to Appropriate Medication Management







Institute of Safe Medication Practices in Canada

http://www.ismp-canada.org/medrec/



W.H.O. Collaborating Centre for Patient Safety in Support

http://www.who.int/patientsafety/implementation/solutions/high5s/h5s-fact-sheet.pdf

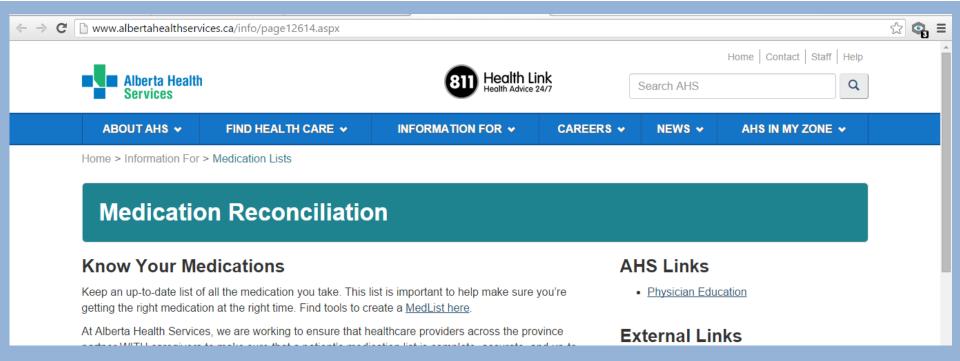
High 5s Fact Sheet

The High 5s Assuring Medication Accuracy at Transitions in Care: Medication Reconciliation Standard Operating Protocol

The High 5s Assuring Medication Accuracy at Transitions in Care: Medication Reconciliation (MedRec SOP) outlines the standard steps of medication reconciliation, guidance for implementation, references and suggestions for quality measurement. The purpose of this SOP is to reduce the potential for adverse drug events (ADEs) as a cause of harm to patients. Preventable ADEs are largely the result of miscommunication and unavailable or incorrect information.

Alberta Health Services - Medication List Campaign

http://www.albertahealthservices.ca/info/page12614.aspx



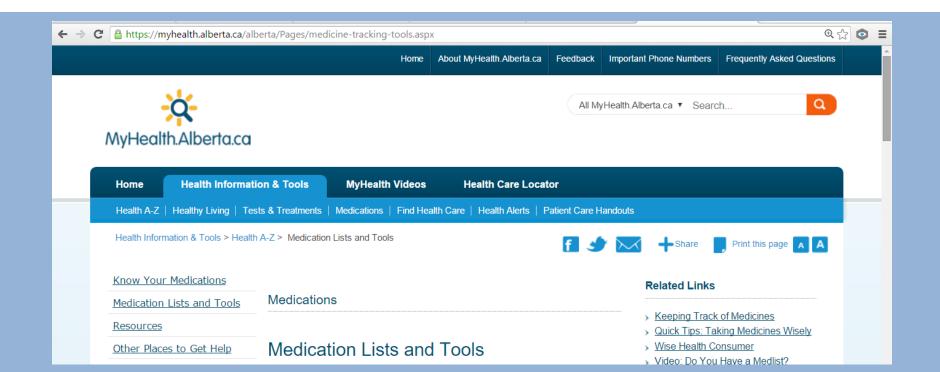
Alberta Health Services – Medication Reconciliation eLearning Module

http://www4.albertahealthservices.ca/elearning/wbt/MedRec/index.html



MyHealth.Alberta.ca – Medication Lists and Tools

https://myhealth.alberta.ca/alberta/Pages/medicine-tracking-tools.aspx



Learning Objectives

Participants will be able to:

- Learn about the issues of medication management in seniors at transitions of care
- Consider medication reconciliation as a strategy in a family physician's clinic
- Become familiar and use the resources for medication reconciliation





Acknowledgement

Peter George Tian MD, MPH
Research Coordinator
Division of Care of the Elderly
Dept. of Family Medicine
University of Alberta





Questions:







References

Accreditation Canada, the Canadian Institute for Health Information, the Canadian Patient Safety Institute, and the Institute for Safe Medication Practices Canada. (2012). Medication Reconciliation in Canada: Raising The Bar – Progress to date and the course ahead. Ottawa, ON: Accreditation Canada.

Canadian Institute for Health Information. Adverse Drug Reaction-Related Hospitalizations Among seniors, 2006 to 2011. Canadian Institute for Health Information. 2013 Mar. Available from https://secure.cihi.ca/free_products/Hospitalizations%20for%20ADR-ENweb.pdf

Canadian Institute for Health Information. Seniors and the health care system: What is the impact of multiple chronic conditions? Canadian Institute for Health Information. 2011 Jan. Available from https://secure.cihi.ca/free_products/air-chronic_disease_aib_en.pdf

Desai R, Williams CE, Greene SB, Pierson S, Hansen RA. Medication errors during patient transitions into nursing homes: characteristics and association with patient harm. Am J Geriatr Pharmacother. 2011 Dec;9(6):413-22. doi: 10.1016/j.amjopharm.2011.10.005. Epub 2011 Nov 13.

Farrell B, Shamji S, Monahan A, Merkley VF. Clinical vignettes to help you deprescribe medications in elderly patients: Introduction to the polypharmacy case series. Can Fam Physician. 2013 Dec; 59(12):1257-8, 1263-4. PubMed PMID:24336529; PubMed Central PMCID: PMC3860913. Available from: http://www.cfp.ca/content/59/12/1257.long





References

Frank C, Weir E. Deprescribing for older patients. CMAJ. 2014 Dec 9;186(18):1369-76. doi: 10.1503/cmaj.131873. Epub 2014 Sep 2. Review. PubMed PMID: 25183716; PubMed Central PMCID: PMC4259770. Available from: http://www.cmaj.ca/content/186/18/1369.long

Kucukarslan SN, Hagan AM, Shimp LA, Gaither CA, Lewis NJ. Integrating medication therapy management in the primary care medical home: A review of randomized controlled trials. Am J Health Syst Pharm. 2011 Feb 15;68(4):335-45. doi: 10.2146/ajhp100405. Review. PubMed PMID: 21289329.

Snow V, Beck D, Budnitz T, Miller DC, Potter J, Wears RL, Weiss KB, Williams MV; American College of Physicians; Society of General Internal Medicine; Society of Hospital Medicine; American Geriatrics Society; American College of Emergency Physicians; Society of Academic Emergency Medicine. Transitions of Care Consensus Policy Statement American College of Physicians-Society of General Internal Medicine-Society of Hospital Medicine-American Geriatrics Society-American College of Emergency Physicians-Society of Academic Emergency Medicine. J Gen Intern Med. 2009 Aug;24(8):971-6. doi: 10.1007/s11606-009-0969-x. Epub 2009 Apr 3. PubMed PMID: 19343456; PubMed Central PMCID: PMC2710485.

Vira T, Colquhoun M, Etchells E. Reconcilable differences: correcting medication errors at hospital admission and discharge. Qual Saf Health Care. 2006 Apr;15(2):122-6. PubMed PMID: 16585113; PubMed Central PMCID: PMC2464829.



