MATCH UP Medicines Medication Reconciliation Resources National Medication Management Plan and support materials

Margaret Duguid
Pharmaceutical Advisor
Australian Commission on Safety and
Quality in Health Care



Overview

- What is medication reconciliation
- Safe practice recommendations
- Medication Reconciliation Toolkit
- National Medication Management Plan
- Training materials and other resources

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What is Medication Reconciliation



A process for obtaining and documenting a complete and accurate list of a patient's current medicines upon admission and comparing this list to the prescriber's admission, transfer and/or discharge orders to identify and resolve discrepancies.

Santell JP Jt Comm J Qual Patient Safety 2006



What is Medication Reconciliation

-

A formal, systematic process

Healthcare professionals partner with patients to ensure accurate and complete medication information transfer at interfaces of care

Designed to prevent potential medication errors and adverse drug events

Purpose of Medication Reconciliation



Reduce preventable errors

- Unintentional discrepancies

 e.g. eye drops for glaucoma omitted as medication history incomplete

Patients receive medicines as intended



The Medication Reconciliation Process



Four key steps

- 1. Obtain and document best possible medication history
- 2. Confirm medication history
- 3. Reconcile history with prescribed medicines and follow up discrepancies
- 4. Supply accurate information when care transferred



Effective medication reconciliation

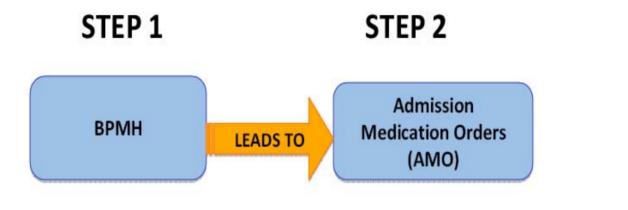


- To be successful needs to be built into the process of care – not added to it:
 - e.g. replace multiple histories with one that is used throughout episode of care
- Integrate steps into existing processes:
 - Patient flow, medication management system
- Best conducted in environment of shared accountability
- Multiple approaches
 - Models will differ from hospital to hospital, team to team

Proactive Model



Occurs when the BPMH is conducted before admission medication orders



STEP 3

Verify every medication in BPMH has been assessed by prescriber.

- Create the BPMH
- 2. Using the BPMH, admission medication orders (AMOs) are written by the prescriber
- 3. Verify that the prescriber has assessed every medication on the BPMH, identifying and resolving any outstanding discrepancies with the prescriber

Source: High 5s Medication Reconciliation Getting Started Kit 2010 AUSTRALIANCOMMISSIONON SAFETYANDQUALITYINHEALTHCARE

Retroactive Model

 Occurs when the BPMH along with formal admission reconciliation occurs <u>after</u> admission medication orders are written

STEP 1 STEP 2 STEP 3 STEP 4 Compare BPMH Primary Admission with AMOs and **BPMH** Medication **Medication Orders** LEADS TO resolve any (AMO) History discrepancies

- 1. Primary medication history is taken
- 2. AMOs are written by prescriber
- 3. Create the BPMH
- 4. Compare the BPMH against the patient's AMOs, identify and resolve discrepancies

Source: High 5s Medication Reconciliation Getting Started Kit 2010 AUSTRALIANCOMMISSIONON SAFETYANDQUALITYINHEALTHCARE

Safe practice recommendations



- 1. Develop a formal and **systematic** approach to reconciling patient medicines across the continuum
 - Multidisciplinary, reps from key depts (ED, ICU, preadmission, med/surg units, pharmacy, Q&S unit)
- 2. Create **P&Ps** that outline roles, tasks in each step in the process
- 3. Adopt a **standardised form** for collecting preadmission medicines list and reconciling medicines
 - Place in consistent, highly visible location with patient's chart - easily accessible when medicines are ordered
 - Electronic and paper

Massachusetts Coalition for prevention of medical errors http://www.macoalition.org/initiatives.shtml AUSTRALIANCOMMISSIONon SAFETYANDQUALITYINHEALTHCARE



Safe practice recommendations



- 4. Assign **responsibility** for obtaining **BPMH** to someone with sufficient expertise
 - Shared accountability (MO, nurse and pharmacist work together)
- 5. Assign **responsibility** for resolving **variances** to someone with sufficient expertise
- 6. Establish **specific time frames** within which medicines should be reconciled
 - < 24 hours, within 4 hours for high risk medicines

Safe practice recommendations



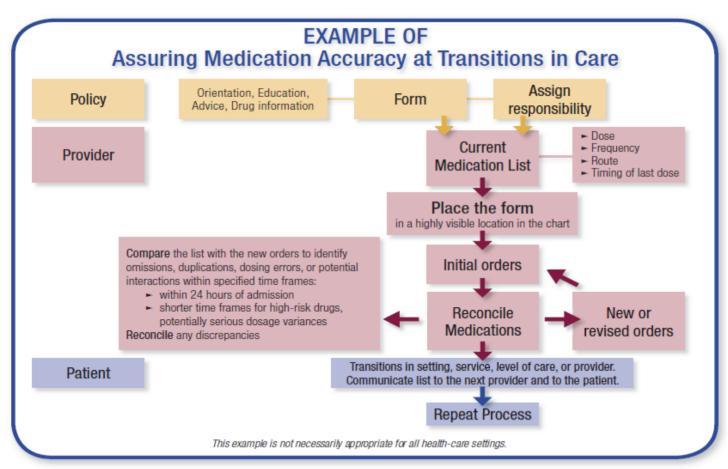
- 7. Provide clinicians ready access to drug information and a pharmacist consult when needed
- 8. Improve access to complete medicines lists at admission
- 9. Provide **orientation** and ongoing **training** to all health professionals
- 10. Monitor performance and provide feedback





WHO Patient Safety Solution 6









Medication reconciliation toolkit





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Medication reconciliation toolkit



- Initial focus on the admission process
 - In line with High 5s medication reconciliation project
 - If medication history on admission incorrect errors flows through to discharge
 - 49% of prescribing reconciliation failures occur at admission *
 - Other Commission work occurring on discharge process





Medication reconciliation toolkit

Toolkit contents

- Educational materials
 - Medication reconciliation
- National Medication Management Plan (MMP)
- MMP training material
- Admission history training resource
- Other support material
- New tools on order









MATCH UP medicines

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- Poster
- Brochure
- Powerpoint template
- Customise with hospital logo







MATCH UP medicines Brochure





Medication reconciliation:

4 simple steps to improve patient safety

1

Obtain a best possible medication history

2

Confirm the accuracy of the history

Using information from patient interviews, GP referrals and other sources, compile a comprehensive list of the patient's current medicines. Include prescription, over the counter and complementary medicines and information about the medicine's name, dose, frequency and route.

This medication history, sometimes referred to as a Best Possible Medication History (BPMH), should involve a patient medication interview, where possible. The BPMH is different and more comprehensive than a routine primary medication history, which is often a quick medication history. Use a second source to confirm the information obtained, and ensure you have the best possible medication history. Verification of medication information can include:

- ✓ Reviewing patient's medicines list.
- Inspection of medicine containers.
- Contacting community pharmacists and GPs, with the patient's consent.
- Communicating with carers or the patient's family members.
- Reviewing previous patient health records.

3

Reconcile the history with prescribed medicines

4

Supply accurate medicines information

Compare the patient's medication history with their prescribed inpatient treatment. Check that these **match**, or that any changes are dinically appropriate.

Where there are discrepancies, discuss these with the prescriber and ensure that the reasons for changes to therapy are documented eg. atenolol ceased prior to surgery. When patients are transferred between wards, hospitals or to their home or residential care facility, ensure that the person taking over their care is supplied with an accurate and complete list of the patient's medicines.

Ensure that the care provider, patient and/or their carer are also provided with information about any changes that have been made to medicines.



Step 1. Best possible medication history



1

Obtain a best possible medication history

Using information from patient interviews, GP referrals and other sources, compile a comprehensive list of the patient's current medicines. Include prescription, over the counter and complementary medicines and information about the medicine's name, dose, frequency and route.

This medication history, sometimes referred to as a *Best Possible Medication History* (BPMH), should involve a patient medication interview, where possible. The BPMH is different and more comprehensive than a routine primary medication history, which is often a quick medication history.



Step 2. Confirm the accuracy of the medication

2

Confirm the accuracy of the history

Use a second source to confirm the information obtained, and ensure you have the best possible medication history. Verification of medication information can include:

- Reviewing patient's medicines list.
- Inspection of medicine containers.
- Contacting community pharmacists and GPs, with the patient's consent.
- Communicating with carers or the patient's family members.
- Reviewing previous patient health records.



Step 3. Reconcile history with prescribed medicines



3

Reconcile the history with prescribed medicines

Compare the patient's medication history with their prescribed inpatient treatment. Check that these **match**, or that any changes are clinically appropriate.

Where there are discrepancies, discuss these with the prescriber and ensure that the reasons for changes to therapy are documented eg. atenolol ceased prior to surgery.



Step 4. Best possible medication history



4

Supply accurate medicines information

When patients are transferred between wards, hospitals or to their home or residential care facility, ensure that the person taking over their care is supplied with an accurate and complete list of the patient's medicines.

Ensure that the care provider, patient and/or their carer are also provided with information about any changes that have been made to medicines.





How to take a best possible medication history

Wherever appropriate, interview the patient or their carer/family. Ensure the patient knows who you are, and why you are gathering this information. Explain the importance of having accurate medicines information.

Approach the interview in a systematic way, using a form such as the National Medication Management Plan to guide you. Use open-ended questions and gather information about:

- The names of all medicines taken, including prescription, over-the-counter, and complementary medicines.
- The dose taken, including strength, dose form and concentration, where relevant.
- ✓ The dose frequency.
- The duration of treatment.
- The indication for therapy.
- Other important information includes recent changes to treatment, and previous adverse drug reactions.

Vulnerable points in transition of care

Whenever there is a transfer of a patient's care, there is an opportunity for errors to be introduced into their medicines regimen. These points of transition require special attention:

- Admission to hospital.
- Transfer from the Emergency Department to other care areas (wards, Intensive Care, or home).
- Transfer from the ICU to the ward.
- Transfer from hospital to home, residential aged care facility or another hospital.

At these points, clinicians should ask:

- ✓ Is it clear what the patient should be taking?
- Have any medicines been withheld that should be restarted?
- Is there anything the patient has been prescribed that they no longer need?
- Have all changes to treatment been clearly documented for the next caregiver?

Medication reconciliation is everybody's business. Strong collaboration, communication and teamwork among staff involved in the patient's care - medical, nursing, ambulance and pharmacy staff AND the patient, their carer or family members is vital for its success.

MATCH UP medicines:

Help prevent adverse medicine events in our hospital.

References: 1. Tam VC, Knowles SR of al. CMAJ 2006;173(5):510-5. 2. Comish PL, Knowles SR of al. Arch Intern Med 2006;166:424-9. 3. Sullivan C, Gleason KM of al. J Nurs Caro Qual 2006; 20:96-98. 4. Stowasser DA, Stowasser M, Collins DM. Journal of Pharmacy Practice and Research 2002;32:133-40. 5. Gleason KM, McDaniel MR of al. J Gen Intern Med: DOI-10.1007/ar11606-010-1268-8.

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A guide to Medication Reconciliation.







Medication Management Plan



Adopt a **standardised form** for collecting pre-admission medicines and reconciling variances

Place in consistent, highly visible location in patient notes

Easily accessible when medicines are prescribed Electronic and paper

Massachusetts Coalition for prevention of medical errors http://www.macoalition.org/initiatives.shtml

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History

- NIMC Workshop September 2008
 - Recommended a form replace section on front of NIMC for recording medicines prior to admission
- Working party convened
 - Collated charts from around Australia
 - Identified core elements
 - APAC Guiding Principles to Achieve Continuity of Medic'n Manag't
 - SHPA practice standards for medication reconciliation
 - Built on 5 years work by Queensland Health in design of form



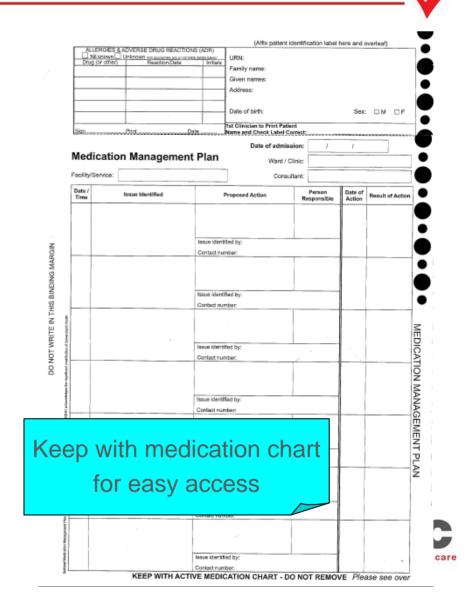
History cont'd

- Considered by Commission Medication Safety
 Program committees
- Modified for use in paediatrics
 - Trialled at Royal Children's Hospital, Brisbane
 - Consultation thru Children's Hospital Australasia
- Approved by Commission's Interjurisdictional and Private Hospital Sector Committees



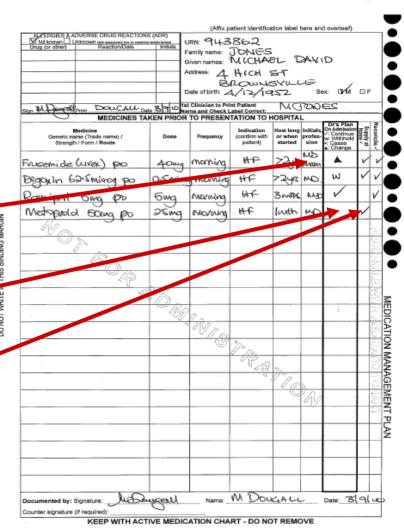
Supports key steps of Medrec

- Obtain and document best possible medication history
- Confirm medication history
- 3. Reconcile history with prescribed medicines
- Document issues/discrepancies and actions
- 5. Supply accurate information when care transferred



1

- Capture of complete and accurate medication history on admission
- Allows for shared accountability
- Doctors plan column helps with reconciliation
- Identifies is supply required at discharge



O NOT WRITE IN THIS BINDING MARGIN

National Medication Management Plan

Prompts for and consolidates information

- Recently ceased or changed medicines
- Confirmation of history
 - Several sources may be needed
- General information
 - Who administers
 - Immunisation status (children)
 - Community contacts
- Checklist to assist in completing history

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			nily name:						
			Given names:						
			Address:						
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RECENTLY CEASE	OR RECENT CH	ANGES	TO MEDICINES (prior to	presentation to hospital)					
SOURCES OF MED	ICINE LIST			·					
Source	Confirmed by	Date	Source	Confirmed by	Date				
General Practitioner		1	Own Medicines						
Community Pharmacist			Community Nurse						
Patient / Carer			Patient List						
	-	_	Previous Admission						
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To ensure patient receives all intended medications

Column to reconcile

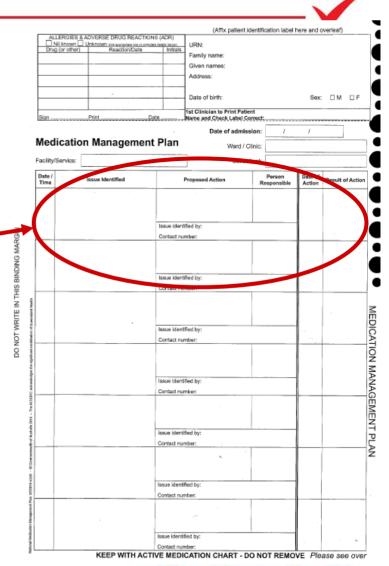
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Medication Management Plan

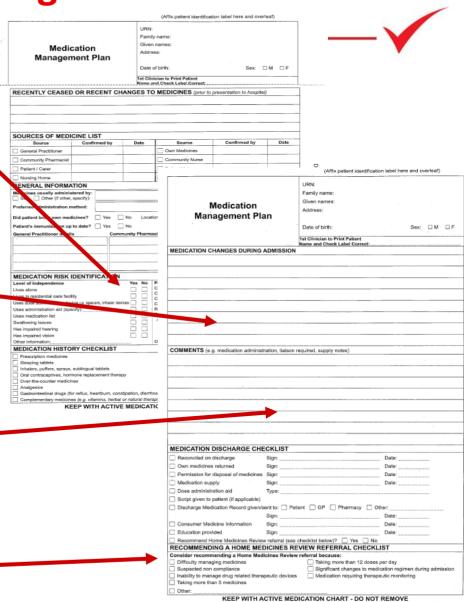
- Medication issues and actions
 - Changes made when discrepancies identified
 - Medication review issues identified & resulting changes
 - Clinical Handover



Medication Management Plan

Assists with discharge

- ✓ Medication Risk Identification
 - Informs discharge process
 - Identify if assistance required to manage medicines at home
- ✓ Medication Changes During Admission
 - Inform the patient or GP
- ✓ Comments
 - Specific administration , supply requirements on discharge
- ✓ Discharge Checklist
- ✓ Referral for Home Medicines Review Considered



NMMP Support materials



- User Guide
 - Use to record BPMH,
 reconcile medicines
 - Privacy issues
 - Page by page instructions for use
- Forms basis for P&Ps on medication reconciliation

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National Medication Management Plan
User Guide

August 2010



NMMP User Guide



Provides examples on how to complete the form

Med	ication Management	on: nic:	08/67 12010				
Facility/Service: PGH			Consultant: Brown				
Date / Time	Issue Identified	F	roposed Action	Rte	Person sponsible	Date of Action	Result of Action
8/1/10	Patient normally takes metopolal at home has not	COLPN		V	NO	8/1/0	Graphed
2pu	been charted	Issue identit Contact nur	noon, W. Deinbar noon, 2948	P	Meran		



NMMP User Guide



Paediatric Patients

Record details on the method of administration usually used in the "medicine" column. This should include the route (e.g. "NG") and the formulation (e.g. "oral mixture"). It may be necessary to use an additional line for detailed information (e.g. "10mg tablet dispersed in 10mL water, give 1mL").

MEDICINES TAKEN PRIOR TO PRESENTATION TO HOSPITAL								
Medicine Generic name (Trade name) / Strength / Form / Route	Dose	Frequency	Indication (confirm with patient)	How long or when started	Initials, profes- sion	Dr's Plan On Admission ✓: Continue w: Withhold ×: Cease ▲: Change	Supply at home /	Reconcile /
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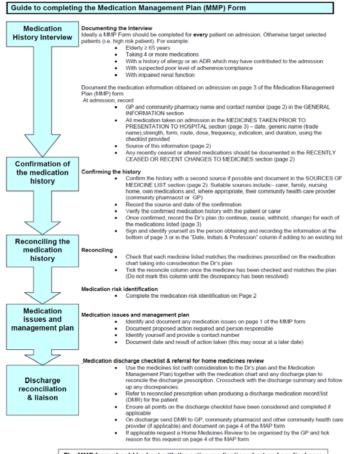
National Medication Management Plan User Guide - August 2010

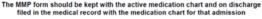


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NMMP User Guide









Medication Reconciliation Matching Medicines at Transition of Care

Using the National Medication Management Plan



Overview of contents

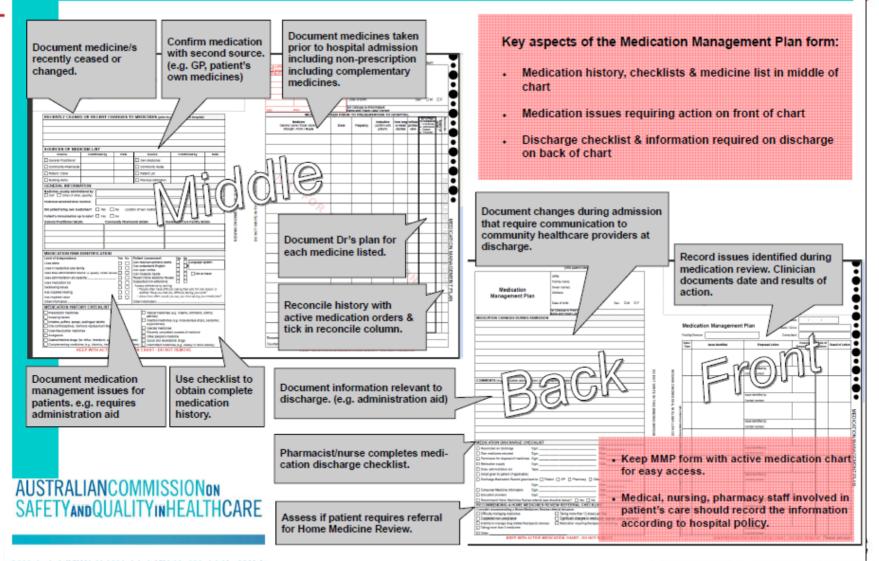
- ✓ What is "Medication Reconciliation"?
- ✓ Why do it?
- ✓ What is the National Medication Management Plan form?
- ✓ How is it used?
- ✓ Discussion







Guide to using the Medication Management Plan (MMP) Form



Other resources



Medication History Taking

Power point presentation with videos



Admission History Education Resource



Can be used for

- Facilitated group sessions
- Self directed learning

Contains

- Instructional notes
- Contents
 - What is involved in obtaining an accurate history
 - 8 steps in medication history interview
 - Communication technique



Session objectives

- -
- 1. Outline the processes required to obtain and document an accurate medication history
- 2. Demonstrate effective communication skills
 - ✓ appropriate and inappropriate questioning styles/responses
- 3. Describe the limitations and benefits of information sources available to elicit and confirm a medication history



Obtaining an accurate medication history: What does it involve?



✓ Structured process

- 1. Review of sources of patient information
- 2. Patient/carer medication history interview
- 3. Organisation of patient data

✓ Confirmation

- Ensuring completeness and accuracy
- Not relying on a single source



Medication history interview 8 steps*



- 1. Obtain relevant patient background
- 2. Open the consultation
- 3. Confirm and document allergies and adverse drug events
- 4. Take and document a comprehensive medication history
- 5. Undertake a thorough adherence assessment
- 6. Assess patient's ability to manage their own medication
- 7. Confirm medication history
- 8. Reconcile medication history with current medication chart and current medical problems

*This 8 step procedure has been developed using the Society of Hospital Pharmacists of Australia's Standards of Practice for Clinical Pharmacy (2005) and the Queensland Health Safe Medication Practice Unit – A Competency Framework for Pharmacy Practitioners to Provide Minimum Standard of Pharmaceutical Review: the General Level Framework Handbook (2006).



Communication technique

-

- ✓ Verbal versus non verbal communication
 - Body positioning
 - Voice tone
 - Eye contact
- ✓ Consider the patient's perspective
 - How would you feel if in their situation?
 - Is the patient able to hear clearly/do they need assistance?



Case study – Medication history interview videos

As you watch the video, use the Medication Management Plan form to document what you think the patient is taking and what you would want to clarify.

- ✓ Consider communication skills
 - Verbal and non-verbal cues
 - Communication technique
 - Consider patient's perspective



Medicine	Dose	Frequency	Indication	How long	Other information obtained
Aspirin 100mg tab	1	mane			
Avapro HCT 150/12.5mg	1	mane			
Frusemide 40mg tab	2	mane	Fluid		Increased 2 days ago by GP
Metoprolol 50mg tab	1	bd			
Simvastatin 40mg tab	1	evening			
Coloxyl & Senna tab		prn			

Medicine	Dose	Frequency	Indication	How long	Other information obtained
Aspirin 100mg tab	1	mane	Thins blood	2 yrs	Started post MI
Avapro HCT 150/12.5mg	1	mane	ВР	2/12	
Frusemide 40mg tab	2	mane	Fluid	6 yrs	Increased 2days ago by GP. Regularly omits doses
Metoprolol 50mg tab	1	bd	ВР	2 yrs	
Simvastatin 40mg tab	1	evening	Cholesterol	2 yrs	
Coloxyl & Senna tab		prn			
Salbutamol MDI	2	qid	SOB	2 days	Commenced by GP
Temazepam 10mg	1	nocte	Sleep	Years	Left at home – keeps by bedside
Paracetamol 500mg tab	2	prn	Headache		Only takes occasionally
Hydrocobalamin 1000 mcg	1000 mcg	2 monthly	Vit B12 replacement		Due this Wednesday
Latanaprost eye drops	1 RE	nocte	Glaucoma	5-6 yrs	Keeps in fridge

AUSTRALIAN COMMISSION on SAFETYandQUALITY in HEALTH CARE

To lead and coordinate the safety and quality agenda in Australia's health care system

me About Us Media & Presentations Our Work Publications Resources Tenders Contact Us

me > Our Work > Medication Safety

patients are discharged.

on Patient Safety.

assuring Medication Accuracy at Transitions of Care: ledication Reconciliation



Enter keywords



'The interface between different care settings is particularly prone to error and a potential target for interventions to reduce medication error."

Easton, K., T. Morgan, et al. (2008). Medication safety in the community: A review of the literature. Sydney, National Prescribing Service).

The process of medication reconciliation has been shown to reduce errors and adverse events associated with poor quality information at transfer of care and inaccurate

Communication problems between settings of care, or between health professionals, are a significant factor in causing medication errors and adverse drug events. Unint changes to patients' medicines regimens often happen during hospital admissions. These unintended changes can cause serious problems during a hospital stay or wh

locumentation of medication histories on patient admission to hospital.

Assuring medication accuracy at transitions of care through the process of medication reconciliation is one of five patient safety priorities nominated by the World Healt

What is medication reconciliation?

Medication reconciliation is a formal process of obtaining and verifying a complete and accurate list of each patient's current medicines. Matching the medicines the pa should be prescribed to those they are actually prescribed. Where there are discrepancies, these are discussed with the prescriber and reasons for changes to therap locumented. When care is transferred (e.g. between wards, hospitals or home), a current and accurate list of medicines, including reasons for change is provided to the aking over the patient's care. Points of transition that require special attention are:

- · Admission to hospital
- Transfer from the Emergency Department to other care areas (wards, Intensive Care, or home)
- Transfer from the Intensive Care Unit to the ward



The national Medication Management Plan (MMP) is an initiative of the Australian Commission on Safety and Quality in Health Ca Commission). The MMP provides health service providers with a standardised form that can be used by nursing, medical, pharmac allied health staff to improve the accuracy of information recorded on admission and available to the clinician responsible for therap decision making.

A standardised form to record the medicines taken prior to presentation at the hospital and use for reconciling patients' medicines admission, intra-hospital transfer and at discharge is considered essential for the medication reconciliation process. The national is provides Australian hospitals with a suitable form to use for this purpose The MMP form has been designed for use in adult and paparients.

The MMP is based on the Medication Action Plan developed by the Safe Medication Management Unit, Queensland Health. This is done in consultation with nurses, doctors and pharmacists. The MMP aligns with the Australian Pharmaceutical Advisory Council principles to achieve continuity in medication management. It incorporates the minimum data set for a medication history outlined principle 4 - Accurate medication history.

National Medication Management Plan PDF version

National Medication Management Plan design files can be supplied on request.

Support materials for the National Medication Management Plan

Buide on how to complete the MMP.

ssues Register for National Medication Management Plan

The Commission maintains the Medication Management Plan (MMP).

A register of change requests, and outcomes of considerations will become available at a later date.

World Health Organization's High 5s Medication Reconciliation Program



Sixteen Australian health services are participating in the World Health Organization's High 5s Medication Reconciliation Program. Participating he will test a standard operating protocol designed to assure medication accuracy at transitions of care. It is an opportunity for participating hospitals on medication reconciliation in high risk areas. They will have high visibility and recognition from implementing and evaluating the standard operation protocol, and for their leadership in standardising patient care processes.

This is a five year project. The first phase of the project is the introduction of medication reconciliation for patients 65 years of age and older who a admitted to an inpatient ward from the emergency department. In subsequent phases, the scope will be expanded to include all patients from all experients and outpatient settings.

Under Development

- OSSIE Guide to medication reconciliation
 - Implementation template
- Performance measures/indicators
- E- medication reconciliation
- Consumer information
- On-line training tool for NMMP





Resources vs best practice recommendations

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Recommendations	Resource	Status
Systematic process for reconciling medicines	OSSIE guide to medication reconciliation Medrec materials NMMP guide, PPT	UNDER
P & Ps for each step in process	User guide for NMMP	V
Standardised form for history and reconciling AUSTRALIANCOMMISSIONON SAFETYANDQUALITYINHEALTHCARE	NMMP	✓ edrec

	Recommendations	Resource	Status
			<u> </u>
	Assign roles and responsibilities	OSSIE Guide to medication reconciliation,	UNDER
		NMMP User guide	
	Improve access to complete medicines list at admission	Advocate patient medicines lists, consumer education	UNDER
	Training health professionals	Medrec materials	.
		History ppt & videos	V
		NMMP guide, PPT	
	Monitoring and feedback	QUM indicators, performance measures	UNDER
F	USTRALIANCOMMISSIONON AFETYANDQUALITYINHEALTHCARE	matchi	ICCIFC ng medicines at transitions of care

Acknowledgements

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- Safe Medication Management Unit, Queensland Health for the use of their materials and permitting their adaption for national use
- National Medication Action Plan Reference Group
- Medication Continuity Expert Advisory Group
- High 5s hospitals for their suggestions for the MATCH UP medicines materials, videos on history taking

