





Medication reconciliation – an English perspective

Professor Bryony Dean Franklin bryony.deanfranklin@imperial.nhs.uk August 2012



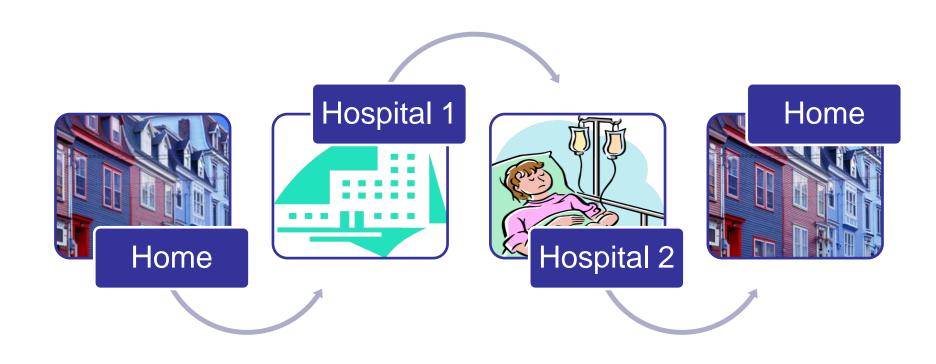


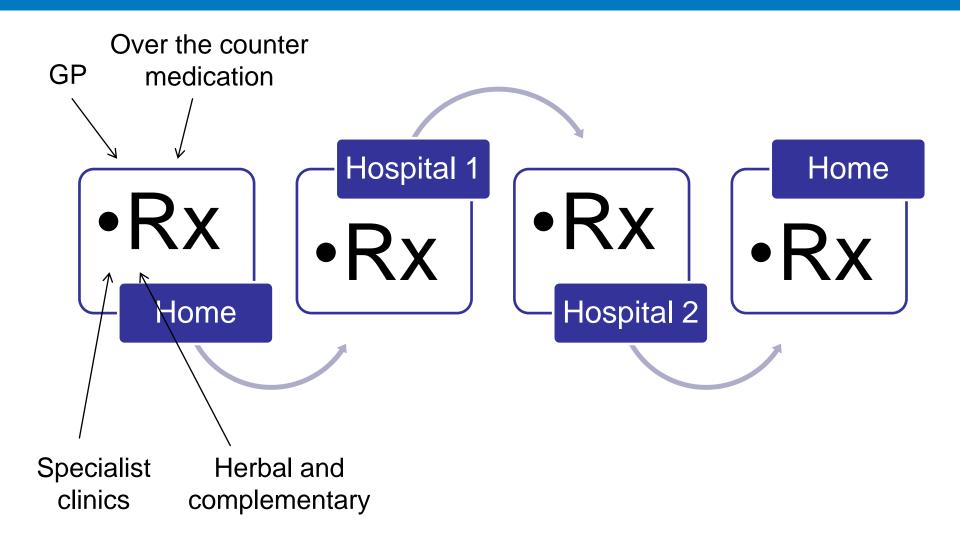
The English system

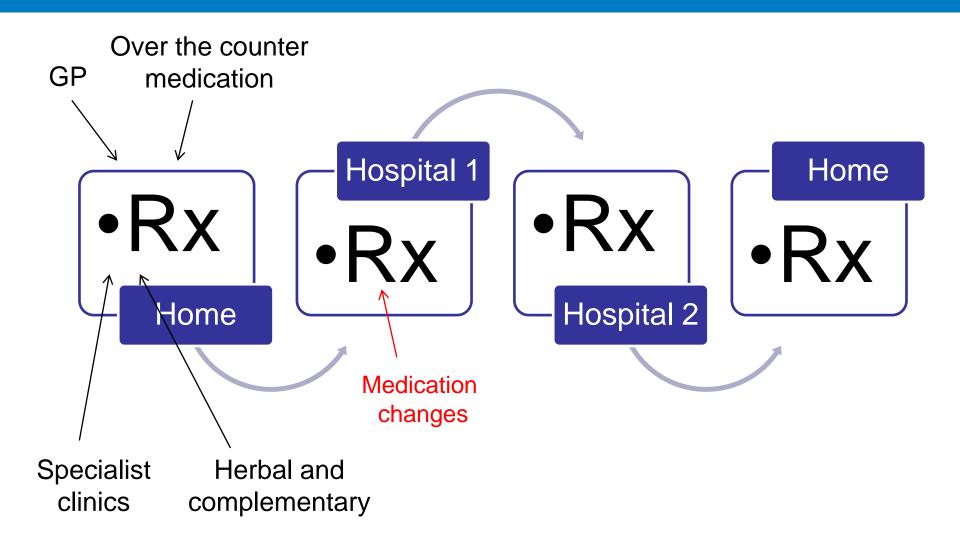
- Each patient registered with General Practitioner (GP), who refers to specialists as needed
 - GP information systems separate to secondary care
- Prescriptions free to those <16 years, >59 years, pregnant, on low income, and with some chronic conditions
- Otherwise, a £7.65 charge (about 24 Real) per medication prescribed
- Some differences in Wales, Scotland & Northern Ireland

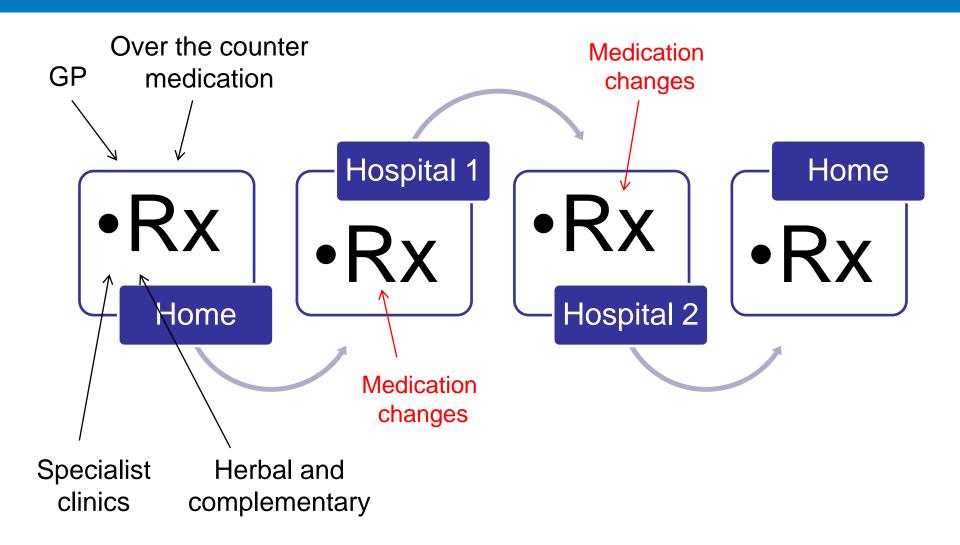
The English system

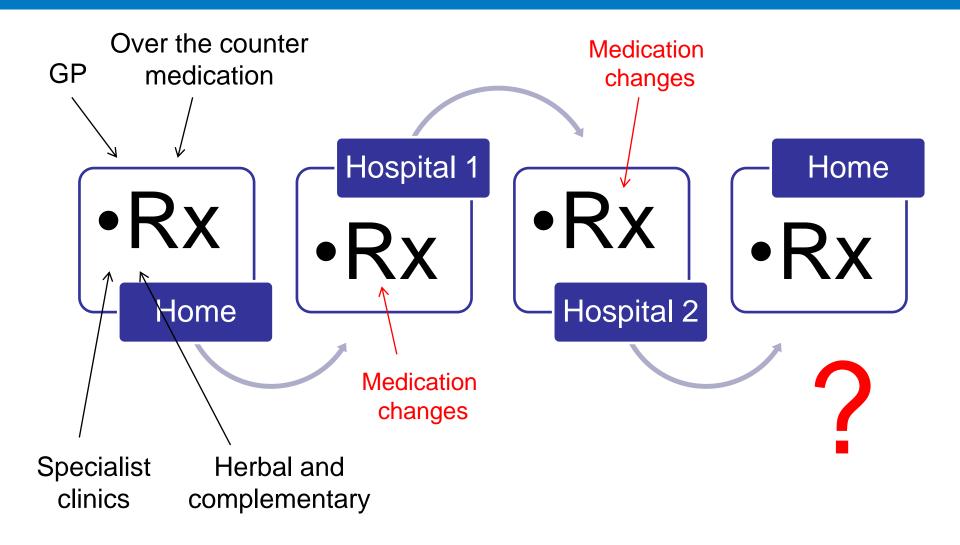
- On admission to hospital, patient may or may not have a list of medication with them
- On discharge from hospital, patients are supplied with at least two weeks' discharge medication (which they do not pay for)
- Before this medication runs out, patients need to see their GP to request a new prescription











Patient transfer

Patient transferred between sectors

Information about their medicines??

Why is medication history important?

- Continuity of treatment
- Identification of adverse drug reactions
- Drugs may need to be modified when health status changes – eg anticoagulants and surgery
- Implications for new medications prescribed
 - drug interactions

What actually happens?

Errors clinical recording the companion of medication and companion of medication.

Commun.

Errors

transfer

Medication reconciliation - definition

- Collecting information on medication history using the most recent & accurate sources of information to create a full and current list of medicines
- checking or verifying this list against the current prescription(s), ensuring any discrepancies are accounted for and actionned appropriately
- documenting any changes, omissions and discrepancies

(UK National Prescribing Centre)

Medication reconciliation

- In UK NICE/NPSA guidance on medication reconciliation, December 2007
- "All organisations that admit adult inpatients should have policies in place for medicines reconciliation on admission, to ensure that:
 - pharmacists involved in medicines reconciliation as soon as possible after admission
 - responsibilities of pharmacists and other staff are clearly defined"

How?

- Ask the patient?
 - May have list of medication
- Look at patient's own drugs?
- Telephone general practitioner (GP)?
- Prescription records from recent admission?



Also...

Do you have any How do you take allergies? these medicines? Do you take any Do you take any herbal medicines? over the counter meds? Do you have any problems taking your medicines?

Leading to...

Up to date list of medication, doses and formulations on admission

Clearly documented reasons for any drugs stopped / changed

Clearly documented details of any new drugs started during admission

Possible tools / solutions...

1. Patient held records



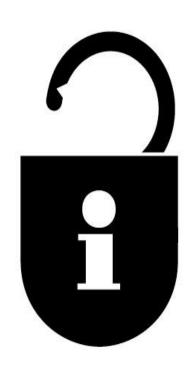
 With thanks to Kandarp Thakkar, Lead Pharmacist IMPE project

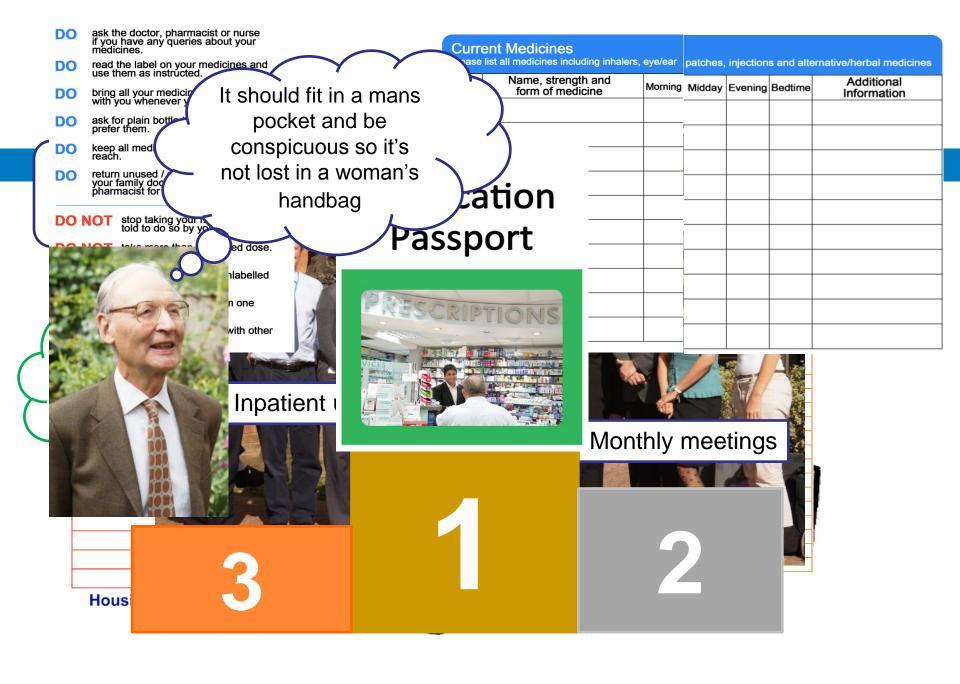


Patient held records

- Explore with PATIENTS what sort of information they need about medicines
- Patients take part in the creation of a solution







2. Use patients' own drugs (PODs)

- Routine practice in UK for the last 10-15 years
- Advantages:
 - Assists with medication history taking
 - Patients continue medication that they are familiar with
 - Less risk of dose omissions
 - Less waste

Patients' own drugs

- Disadvantages
- Hospitals generally have criteria for confirming that suitable for use
 - Identifiable?
 - In date?
 - Labelled with patient name?
 - In good condition?



Key role for pharmacy staff in checking suitability PODs and developing appropriate procedures

3. "Green bags" for ambulances







4. Documentation of changes during hospital stay

	Medicine	s normall	y tal	cen at home	- record	on adm	nission
Medicine		Frequency	Change in therapy since admission			Reason for change	
ASDIVIN	75m	q OD	Ivev	Dose changed	Vicinicis	/	due to GI bleed
Amlodupine	10nx	OD		1 to 5m	g.		
Aspirin Amlodypine Digoxin	125 m	cg OD			V		
J							

4. Documentation of changes during hospital stay



5. Communication of changes at discharge

Medication on discharge:

Drug	Dose	Frequency	Days	Route	GP Continue?
Admission drugs (unamended)				-9a	
lansoprazole	30mg	each morning	7	Oral	Yes
clopidogrel	75mg	each morning	7	Oral	Yes
beclometasone Q-var inhaler 100 micrograms	1 puff	twice a day	on ward (locker)	Inhaled	Yes
senna (Indications: not in MCCA)	2 tabs at night	as required	14	Oral	Yes
Admission drugs (amended)					
fultium-d3	800 units	daily	7	Oral	Yes
(Indications: not available from	Charing Cross hospita	l; to re-start once discharged	d.)		
Drugs prescribed since admissi	on				
paracetamol	1g	four times a day as needed	14	Oral	Yes
(Indications: not in MCCA)					
clexane	100mg	twice a day	14	Sub- Cutaneous	Yes
digoxin (Indications: MOnitor renal funst	250mcg ion)	each morning	14	Oral	Yes

Details of information booklets and other information given with medicines:

Patient medication passport

Allergies:

NKDA

6. The future

- Electronic records accessible by primary and secondary care?
- Patient held smart cards?
- Smart phone apps?







The challenges

- Whose responsibility is medication reconciliation?
 - Most evidence is based on extensive pharmacy involvement
- How extensive?
 - A "bundle": admission, discharge, communication with primary care physician, telephone follow up
- Which patients to prioritise, if insufficient resources for all?
 - Older patients
 - Other high risk patients

The evidence

- Medication reconciliation and pharmacist review significantly reduced inappropriate drugs and drug related readmission (Hellström et al, 2011) and length of stay (Scullin et al, 2012)
- Studies consistently demonstrate reduction in discrepancies, potential ADEs and ADEs (Mueller et al 2012)

We need to take on the challenge



References

- Hellstrom et al: Impact of the Lund Integrated
 Medicines Management (LIMM) model on medication
 appropriateness and drug-related hospital revisits. Eur
 J Clin Pharmacol 2011, 67(7):741-752.
- Mueller et al: Hospital—based medication reconciliation practices. Arch Int Med online first 25 June 2012
- Scullin et al: Integrated medicines management can routine implementation improve quality? J Eval Clin Pract 2011.