

Medication Review Practices at Hospital Pharmacy

Moira Kinnear









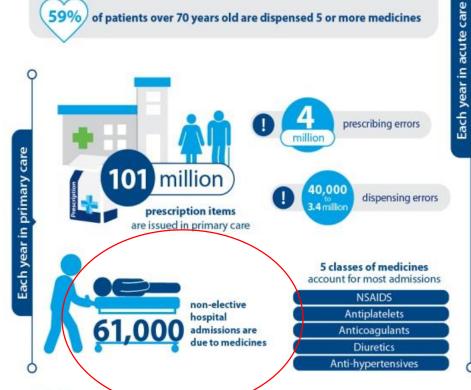


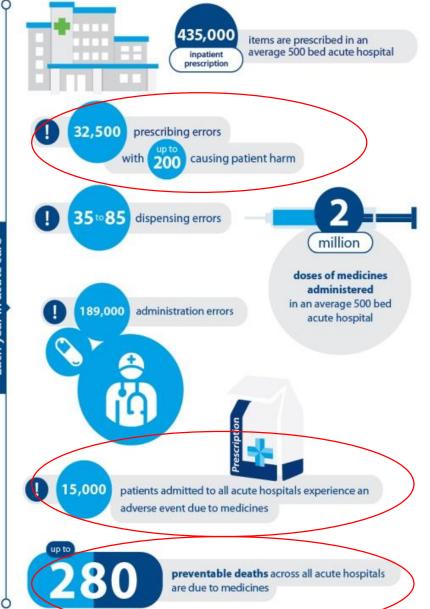


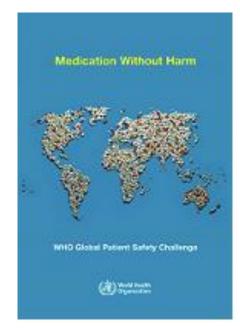


Safer Use of Medicines







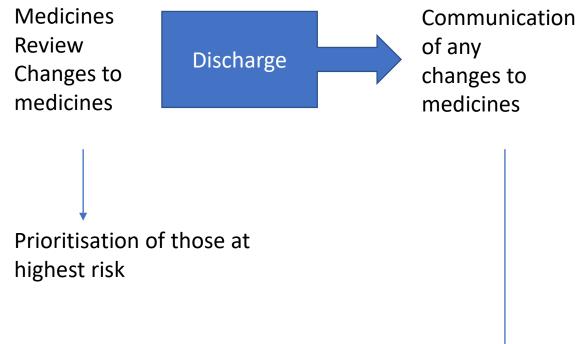


Patient Journey



'The process that the healthcare team undertakes to ensure that the list of medication, both prescribed and over the counter, that I am taking is exactly the same as the list that I or my carers, GP, Community Pharmacist and hospital team have. This is achieved in partnership with me through obtaining an up-to-date and accurate medication list that has been compared with the most recently available information and has documented any discrepancies, changes, deletions or additions resulting in a complete list of medicines accurately communicated.'

Reference source: CMO Letter Safer Use of Medicines - Medicines Reconciliation SGHD/CMO(2013)18



Medicine has been stopped including reason
Medicine has been started including reason
Intended duration of tx (eg antibiotics)
Dose has been changed including reason
Route of admin. has been changed including reason
Frequency of dose has changed including reason

Medicines Reconciliation





Medicines reconciliation e-learning module

Target audience: Doctors, nurses, pharmacists and pharmacy technicians



Medicines reconciliation on admission - goals and measures

Medicines reconciliation on admission to hospital is the process of collecting, confirming and communicating the accurate list of medicines that a patient is taking at the point of admission in to hospital. The Scottish Government has agreed two goals and five measures.

The Goals are:

- 95% compliance with medicines reconciliation within 24 hours of admission
- 95% of patients have an accurate inpatient prescription chart within 24 hours of admission

The Measures are:

- Patient demographics documented
- Allergy status on admission documented
- 2 or more sources, one of which should be the patient/carer, used on admission to give the best possible medicines history
- · Medicines Plan documented for each medicine i.e. continue, withhold, stop
- Safe and accurate transcription of clinically appropriate medicines on inpatient prescription chart

Chief Medical Officer and Public Health Directorate
Chief Nursing Officer, Patients, Public and Health Professionals
Directorate
Finance, eHealth and Pharmaceuticals Directorate
Clinical Director, The Quality Unit





Dear Colleague

Safer Use of Medicines

Medicines Reconciliation: Revised Definition, Goals and Measures and Recommended Practice Statements for the Scottish Patient Safety Programme

Purpose

This letter and its appendices set out a number of changes and developments to build on current good practice, strengthen and consolidate compliance with Medicines Reconciliation in the Scottish Patient Safety Programme and support for NHS Boards to meet this strategic direction.

Background

Medicines are the most common intervention in western

From the Chief Medical Officer
Chief Nursing Officer
Chief Pharmaceutical Officer
Clinical Director, The Quality Unit
Sir Harry Burns MPH FRCS(Glas)
FRCP(Ed) FFPH
Ros Moore RGN RNT BSc (Hons)
Nursing MA
Professor Bill Scott BSc MSc DSc
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19 September 2013

SGHD/CMO(2013)18

Establish multi-professional leads for medicines reconciliation (doctor, pharmacist and nurse) to drive forward improvement.

Ensuring medicines reconciliation is a core part of training for all doctors, pharmacists, nurses and pharmacy technicians; including induction training.

Adopting the medicines reconciliation e-learning module as mandatory training for all doctors, pharmacists, nurses and pharmacy technicians. This is hosted by NHS Education for Scotland and is planned to be available early 2014.

Implementing medicines reconciliation in acute receiving units as a priority area, where it should be tested, embedded and spread to other clinical areas.

The verification of the medicines reconciliation by a pharmacist provides the definition of accurate medicines reconciliation, if pharmacist verification has not been completed then an assessment would require to be made on the accuracy during the case note review process.

Medicines reconciliation- standard form

ECS- Live- Patient report																					
Patient Name CHI			Date of Birth				Age GP			GP Practice							ctice Co	et			
Annie White XXXXXXXX			CX XXXXXXX			8	8 Another, A			1 Royal Infirmary					8	8844					
Clinical Data																					
Allergies					D-1								10								
Description None recorded					Date Recorded 10 October 2004						L Co	Comments									
Sources	ECS		Patient's Drugs			Referrer Kardex				GP Practice				TRAK							
	Patien	nt Relative/Carer				Referre	\neg	Comm Pharmacy				Other - Specify									
Actions [ons C Continue W Withhold					S Stop															
Acute Medication including those greater than 30 days)																					
Drug ID	Formulatio			Frequency	Medication Prescripti			ion	Source				Action Comm				ment	ts			
				, ,	Star	t Date	Date		10			tc	: W I		; †						
Co-codamol	8/500 tablets		Two	4-6 hourly	18 A	ugust	20 January	2015	1 -		\vdash	+	+	+	\dashv						
			ablets	as required	2010																
Repeat Medication																					
Drug ID	Formulation		Dose	Frequenc	y Medication		Prescription		n Dis				ource		,	Action		Cor	nments		
				-	tart Date		Date		10			2	2° 3° 0		W	S					
Ramipni	5mg table		Une tablet		21) June)14	20 February 2015														
Simvastatin	40mg tabi		Une At night tablet		27 May 2006		2015														
Aspinn	/5mg tabl		Une tablet			/ May 2006	2015														
Levothyroxine	tablets					9 Oct 2003	2015														
Dipyndamole	capsules		Une capsul			May 2000	2015														
Ibuprofen	V		Une tablet	Three time daily		3 August)10	20 February 2015														
Amitriptyline	/5mg tablets		Une tablet	At night		2 June 205	20 February 2015														
Senna	7.5mg tablets		lwo tablets	At night as required	5 Z!	9 July 2006	20 February 2015														
Umeprazole.	20mg capsules		Une In the capsule momin		27 May 2008		20 February 2015				\neg										
Compliance Device Name and telephone number of community pharmacy																					
Completed by Designation Grade Date Time Contact Number																					
Complete	ed by	lby Des		signation		Grade				Date			+	1				\rightarrow	Conta	et Numb	er
Reviewed by			Designation		Grade		e		Date				\pm	Time			\Rightarrow	Conta	et Numb	ег	
Printed By: A Doctor on Day 1																					

Risks of an Incomplete History

- Fail to identify medicines that should be stopped
- Fail to identify when medicines should be started
- Fail to identify when a dose needs reducing
- Fail to identify when a dose needs altering
- Fail to identify non-adherence









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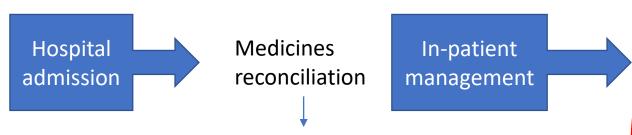


Original article

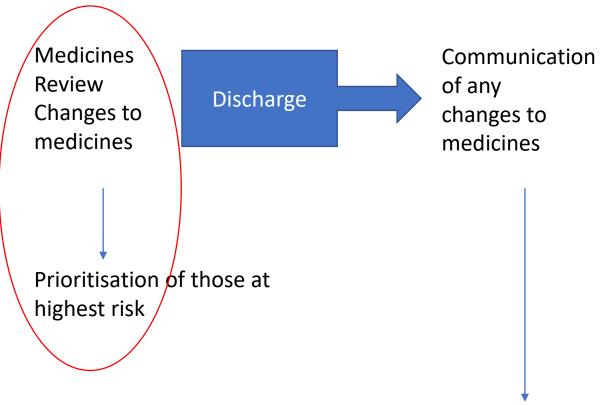
Consequence of delegating medication-related tasks from physician to clinical pharmacist in an acute admission unit: an analytical study

Katrine Brodersen Lind¹, Charlotte Arp Soerensen², Suheil Andreas Salamon³, Hans Kirkegaard⁴, Marianne Lisby⁴

Patient Journey

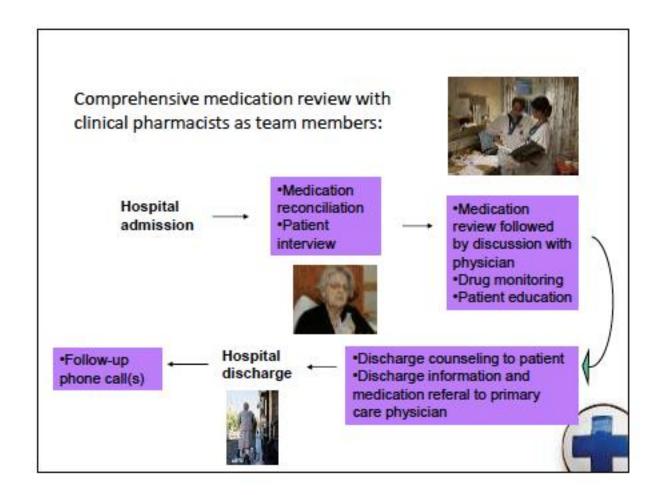


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Evidence for clinical pharmacy services in inpatient care
Ulrika Gillespie @ 46th ESCP Symposium Heidelberg Germany Oct 2017



Clinical Pharmacy: Patient Prioritisation



Editorial

Right patient, right time, right pharmacist: the time for clinical prioritisation tools?

Penny Lewis

Original article

Pharmacists' attitudes towards a pharmaceutical assessment screening tool to help prioritise pharmaceutical care in a UK hospital

Katherine J E Saxby, ¹ Ruth Murdoch, ¹ John McGuinness, ¹ Douglas T Steinke, ^{1,2} Steven D Williams ^{1,2}

New Zealand

Validation of the assessment of risk tool: patient prioritisation technology for clinical pharmacist interventions

Nazanin Falconer^{1, 2}, Doreen Liow^{2, 3}, Irene Zeng⁴, Nirasha Parsotam Mary Seddon⁶, Sanjoy Nand²

hospital narmacy

Developing and implementing a pharmacy risk screening tool

6 December, 2013 04:35 PM

NHS Ayrshire and Arran health board has successfully developed and implemented a method of targeting their clinical pharmacy services at high-risk patients through the use of their electronic prescribing system

High constructions will be a few to an exercise AHTO becomes a COOO be decided and the

Richard Cottrell BSc(Hons) PGDip Michele Caldwell BSc MSc MRPharmS Gillian Jardine BSc(Hons) MSC MRPharmS NHS Ayrshire & Arran, Ayr, UK Email: richard.cottrell@aaaht.scot.nhs.uk

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PostScriptAcute



Toxice 17, Tune 2014 + Produced by NHS Greater Stargon and Clyde Medicines Information Service and WMJ Christal Governance

in this issue:

- Pharmacy phartitation and referral
- Nevel oral anticoagulants (NOACs) in strial. Ribellistion: Update
- TNF alpha inhibitors: risk of tuberculosis.
- Quideline nevo
- Learning from incidents: werfasin follow-up-post-
- Gentamicin prescription chart: updated seroors
- Reminder: how to safely prescribe weekly.

information included is specific to the use of

medicines in the adult setting

Pharmacy Prioritisation and Referral

Background

Clinical pharmacies cannot review all patients in NYSGGC every day. In order to allocate similar phernacial resource where it is most needed. patients' pharmaceutical care needs must be assessed and prioritized accordingly

Current model of clinical pharmacist service delivery Until now the approach adopted has been to prioritise clinical areas for pharmacist input based on the perceived gharmaceutical risk. In practice, this resent. that same wards are visited by a clinical pharmacid. Monday to Friday while other clinical areas receive no

it is known that in the "lower priority" areas not receiving a visit there will be some patients with a dear need for pharmaceutical care. Equally, some patients with little need for pharmacist input will be reviewed unnecessarily.

Alternative models

(Naved an prioritization of patient need rather than alleical setting?

- Early GGC pilots of medical/hursing staff referring. petients for pharmacy review were unsuccessful. Referred rates were low and potentially appropriate patients were not referred.
- A report from Tayside described an approach of assessing medical patients on admission and targeting resources to those at high risk requiring. greater follow up.

New model for Pharmaceutical Care Service delivery.

The planned approach for NHSSGC is a combination of the above strategies known as "Triage and Referral". A triage assessment tool has been developed (Diagnam)

Initial work showed the application of the simple tool by pharmacists was as sensitive in identifying patients with ongoing care losses as the opinion of an experienced pharmacist.

Further studies in NHSGGC have validated this approach in patients in the medical and rehabilitation. directorates. The tool was highly sensitive in identifying patients with pharmaceutical care issues as the majority of case issues occurred in patients in the high sisk joed; category.

As predicted, these studies also demonstrated that less circical pharmacist time was spent monitoring low.

risk patients. Adopting allow staff resource to patients who are likely to their pharmaceutics who would not previbecause their ward old?

Diagram 1: The Patient

Pharmacu review on: admission and each patient integed to one of three categories opposits brage tool considers.

- high risk medicines
- imager organifalture 4 complex meditation regimen
- potential serieus dru Personal States

be a gharmacist be dispensing. This is no pharmacist completing the patient's clinical is Further detail is evaluable Early implementer sites

Please note: Discharge

Pharmacy review on admission and each patient triaged to one of three categories opposite. Triage tool considers:

- reaction

 Daily review (Monday to Red Friday only)

Alternate day

review (Monday

to Friday only)

high risk medicines

major organ failure

complex medication regimen

potential serious drug

 No further Green

review

http://www.ggcprescribing.org.uk/media/uploads/p ostscript acute/ps acute issue 17 june 2014.pdf

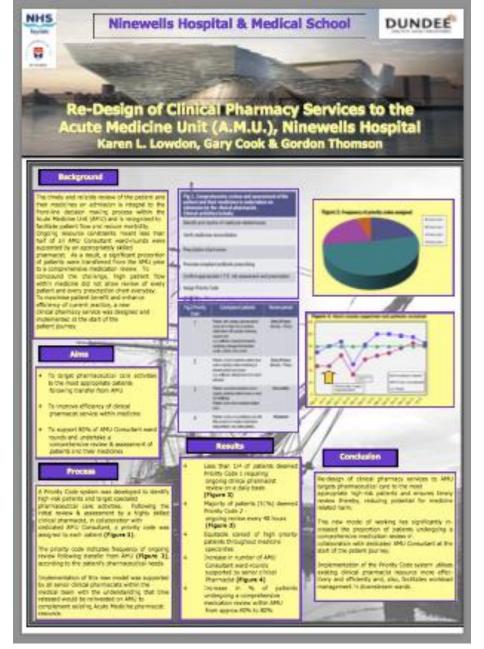


Fig 2.Priority Code	Examples of patients	Review period
1	Patients with complex pharmaceutical needs and at high risk of medicine- related harm with specific monitoring requirements e.g. medicines requiring therapeutic monitoring, deranged biochemistry results, patients nil by mouth	Every 24 hours (Monday – Friday)
2	Patients at risk of medicine-related harm and/or requiring routine monitoring of pharmaceutical care issues e.g. medicines withheld due to low blood pressure	Every 48 hours (Monday – Friday)
3	Patients prescribed medicines but no ongoing medicine-related issues or need for monitoring. Patients at low risk of medicine-related harm.	Once weekly
4	Patients on few or no medicines and with little prospect of complex medications being initiated; very stable patients.	Nii planned

http://www.acutemedicine.org.uk/wp-content/uploads/2013/10/sod24-redesignofclinicalpharmacyservicestotheamuninewellshospital.pdf

	acy Priority Coding Tool						
oritisation Codes :							
ar: 1 Review Daily	Patients may fulfill criteria in more than one of the prioritisation criteria - in this situation,						
ar: 2 Review Every 3rd day (range 2 - 4 days)	allocate to the highest level of code.						
ar: 3 Review Weekly (range 5-9 days)	In the absence of specific examples relevant to each individual patient,						
ar: 4 Review at 14 days or re-referral	allocate based on clinical judgement.						
ar 1 Criteria :	Phar 2 Criteria :						
High risk medicine / medicine requiring TDM	High risk medicine / medicine requiring TDM						
e.g. SACTs, cytotoxics, digoxin, lithium, phenytoin, theophylline, vancomycin, warfarin, etc.	e.g. SACTs, cytotoxics digoxin, lithium, phenytoin, theophylline, vancomycin, warfarin, etc.						
NB Considered Phar 1 if some indication of toxic or subtheraputic effect	NB Considered Phar 2 if no indication of toxic or subtheraputic effect.						
Severe chronic renal impairment (Est. CrCl ≤ 30ml/min)	Severe chronic renal impairment (Est. CrCl ≤ 30ml/min)						
NB Considered Phar 1 if on medications requiring close adjustment.	NB Considered Phar 2 if not on medications requiring dose adjustment.						
Acute kidney injury (urea ≥ 10, creat ≥ 30 from baseline)	Acute kidney injury (urea ≥ 10, creat ≥ 30 from baseline)						
NB Considered Phar 1 if on potentially nephrotoxic medcines.	NB Considered Phar 2 if no potentially nephrotoxic medicines.						
Severe hepatic impairment (LFT's ≥ 3x upper limit of normal)	Moderate hepatic impairment (LFT's > ULN but < 3X ULN)						
Polypharmacy ≥ 10 regular medications	Polypharmacy ≥ 10 regular medications						
NB Considered Phar 1 if complex regimen e.g. drug-drug or drug-disease interactions,	NB Considered Phar 2 if polypharmacy in absence of complex regimen and						
non-compliance with evidence based guidelines.	compliant with evidence based guidelines.						
Nil by mouth/ swallowing difficulties	Nil by mouth/ swallowing difficulties						
NB Considered Phar 1 if essential medicine or medical condition must be treated.	NB Considered Phar 2 if no essential medicine or medical condition to be treated.						
Short term use of antipsychotics/ benzodiazepines in delirium/ agitation	Short term use of antipsychotics/ benzodiazepines in delirium/ agitation						
NB Considered Phar 1 for patients with contra-indication/ cautions for use of	NB Considered Phar 2 for patients with no obvious contra-indication to						
antipsychotics e.g. Parkinsons, Lewy body dementia etc.	pharmacological management.						
Significant drug interaction	Significant drug interaction						
NB Considered Phar 1 if indication of toxic/ subtherapuetic effect resulting from interaction	NB Considered Phar 2 if no indication of toxic/ subtherapuetic effect resulting from interaction						
Significant adverse drug reaction (ADR)	Significant adverse drug reaction						
NB Considered Phar 1 if noted ADR e.g. recent fall or prolonged QTc >500ms	NB Considered Phar 2 if no current indication of ADR e.g. history of falls or prolonged QTc- monitor for any changes to medication						
Unresolved medicines reconcilliation or supply issue e.g. non-formulary and ULM use	monitor for any changes to medication						
Before the Market and a second and a Table Benedictal Notice of Market and Allice and Al	Multiple new medications for new/ acute medical condition requiring						
Patient with daily aseptic need e.g. on Total Parenteral Nutrition, antibiotic infusion	monitoring/ education						
Discharge issue resolution by next working day e.g. counselling, MCD, MAR							

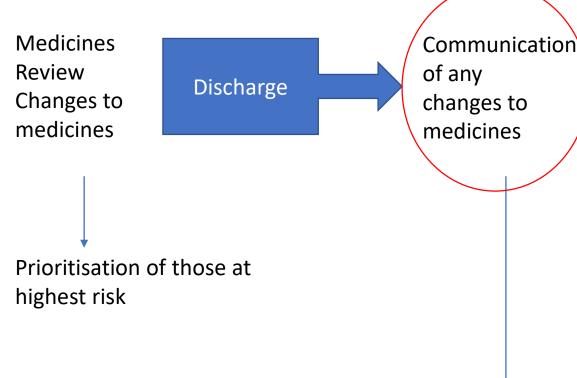
Phar 4 Criteria : Patient stable with no acute issues - review at 14 days or at re-referral

Phar D Criteria: Patient assessed as suitable for discharge with professionally checked IDL

Patient Journey



'The process that the healthcare team undertakes to ensure that the list of medication, both prescribed and over the counter, that I am taking is exactly the same as the list that I or my carers, GP, Community Pharmacist and hospital team have. This is achieved in partnership with me through obtaining an up-to-date and accurate medication list that has been compared with the most recently available information and has documented any discrepancies, changes, deletions or additions resulting in a complete list of medicines accurately communicated.'



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Communication - on discharge

At discharge, any changes to a patient's medication should be documented clearly on the Immediate Discharge Letter (IDL). In addition to this, the reason for any changes also should be documented on the IDL.

Here are five useful tips that should be followed when completing the dicharge documentation:

- Prescribe all medicines accurately on the discharge letter. This includes all the medicines that a patient should be taking not just those that need dispensed on discharge.
- Be sure to include the patient's demographical information and document any allergies.
- Include the indication of any newly started medicines on discharge documentation.
- Include specific details such as device names to improve clarity of the discharge information.
- 5. Be explicit as to how long medices are to be continued: some medicines are only intended for short-term use!

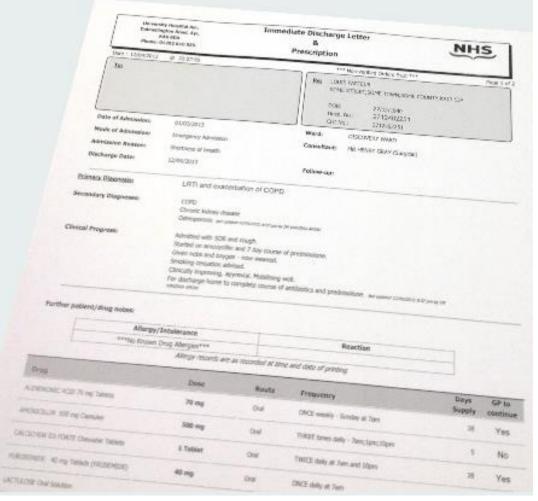




Figure 3: Integrated pharmacotherapy service

- MAS & PHS
- CMS
- Medication review
- Monitoring, titration, & feedback
- Serial dispensing

Community pharmacy

GP practicebased pharmacy

- Acute, repeat & serial prescribing
- Medicines reconciliation
- Medication & polypharmacy reviews
- High risk medicines

- · In-patient care
- Discharge
- Out-patient clinics
- Specialist services
 Teach & Treat
 - Hospital pharmacy

Case Study - Pharmacy support in Caithness

Pharmacists and pharmacy technicians are already developing an increased, specialised role within primary care multi-disciplinary teams. They are well placed to support GPs to focus on their role as expert medical generalists by ensuring workload is distributed more appropriately, undertaking prescribing improvement work, and providing medication reviews and specialised clinics.

In Caithness in NHS Highland, pharmacist prescribers are embedded in the primary care MDT. One pharmacist, who works in a GP practice with 5,447 patients, has taken over all the medication reviews that were previously provided by the practice GPs, and completed a total of 2,811 reviews in an 18-month period. This includes re-authorising repeat prescriptions and transferring suitable patients to serial prescribing. They also triage all daily acute requests, carry out all medicines reconciliation for hospital discharges and clinic letters and manage individual patients requiring more intensive medicines input, such as dose titration of a pain medicine. Caithness pharmacists also provide domiciliary medication reviews for patients in care homes and patients receiving care at home, reducing the number of visits required by GPs.

The pharmacist input has resulted in a marked reduction in GP time spent on medicinesrelated activities, enabling them to focus on other activities. Patient response has also been overwhelmingly positive.

"Having an in-house pharmacist has shown many benefits for patients including reducing polypharmacy, being able to monitor more closely patients on high risk medications, and supporting patients though medication changes after hospital discharge."

GP, Caithness

http://www.gov.scot/Resource/0052/00527530.pdf



Scottish Home and Health Department

NHS Circular No 1988 (GEN) 32

Previous Circular No Cancelled/Amended None

General Managers of fealth Boards General Manager Common Services Agency St Andrew's House Edinburgh EH1 3DE

Telephone Direct Dialling 031-244 Switchboard 031-556 8400 GTN 2688 Telex 72202

Your ref

PLW/1/15

24 October 1988

Dear Sir

HEALTH SERVICES MANAGEMENT

THE WAY FORWARD FOR HOSPITAL PHARMACEUTICAL SERVICES

SUMMARY

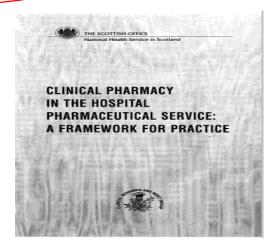
This circular sets out the policy aims and action required of pharmaceutical services taking into account the recommendations made in the <u>Muffield Report on Pharmacy</u>. The policy aims are the achievement of better patient care and financial savings, through the more cost effective use of medicines, and improved use of pharmaceutical expertise obtained through the implementation of a clinical pharmacy service.

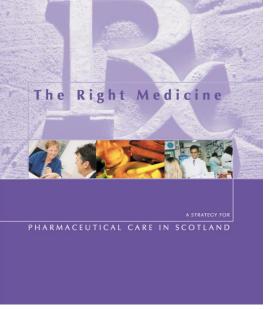
The circular also includes revised advice on the essential components and organisation of pharmaceutical services for the Hospital and Community Health Services

Health Boards are asked to review their pharmaceutical services and in particular plan for the implementation of clinical pharmacy and formulary management systems.

Health Boards should have the implementation of clinical pharmacy incorporated in their planning programme for 1989/90.

1988





2002



September 2013 Scottish Government

Prescription for Excellence

A Vision and Action Plan for the right pharmaceutical care through integrated partnerships and innovation



Scottish Government Pharmacy and Medicines Division Directorate for Chief Medical Officer

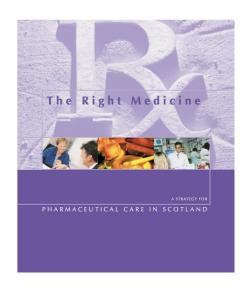
ACHIEVING EXCELLENCE IN PHARMACEUTICAL CARE A STRATEGY FOR SCOTLAND





1996





http://www.gov.scot/Resource/Doc/158742/0043086.pdf

NHS Boards will be asked to work with the profession to develop models of practice to ensure that every patient has their medicines reviewed and medication problems addressed before their discharge from hospital. (December 2004)



Prescription for Excellence

A Vision and Action Plan for the right pharmaceutical care through integrated partnerships and innovation

http://www.gov.scot/Resource/0043/00434053.pdf

All patients, regardless of their age and setting of care, receive high quality pharmaceutical care from clinical pharmacist independent prescribers.

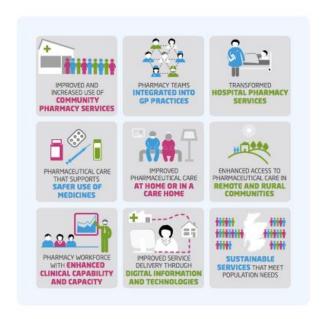
Establish an education and training framework to help pharmacists deliver pharmaceutical care to patients in all settings





ACHIEVING EXCELLENCE IN PHARMACEUTICAL CARE

A STRATEGY FOR SCOTLAND



Scottish Government Pharmacy and Medicines Division Directorate for Chief Medical Officer



http://www.gov.scot/Resource/0052/00523589.pdf

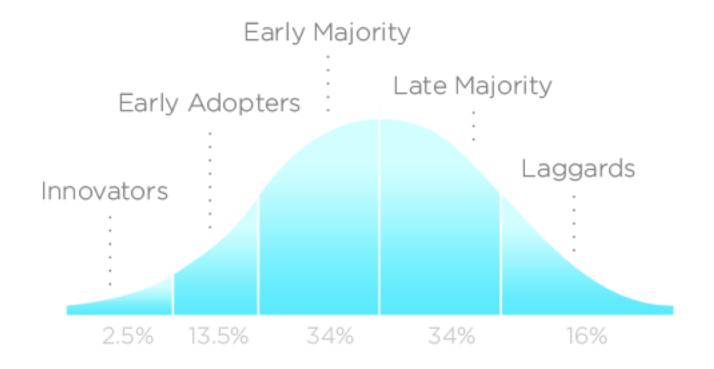
ACTIONS

Transformation requirements

Discharge process

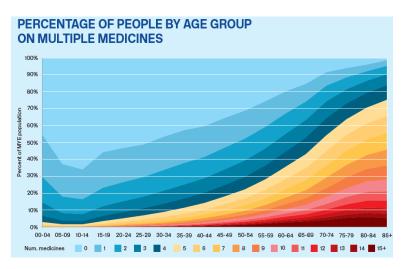
Quality improvement & performance measures

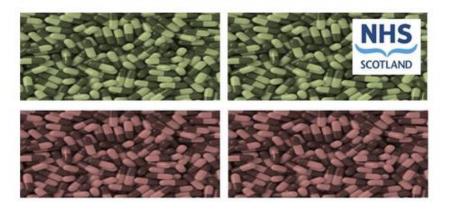
Modern Outpatient Programme



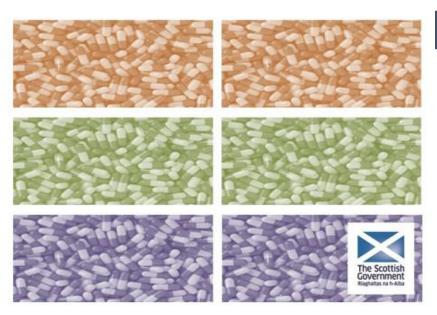
INNOVATION ADOPTION LIFECYCLE







Polypharmacy Guidance March 2015





PolyPharmacy Guidance



7 Steps Medicines NNT ADR General principles Hot topics Appendices

POLYPHARMACY

Links to information leaflets and other recommendations.

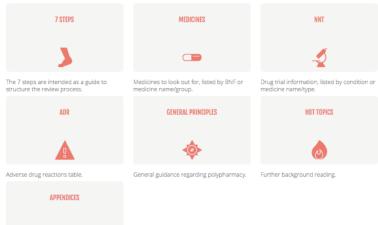


Table 2a: An overview of the '7-steps' with Links to section of greater detail

Domain	The same of	Steps	Process
Aims	1. 0	dentify bjectives of irug therapy	Review diagnoses and identify therapeutic objectives with respect to: > Management of existing health problems
		rug therapy	➤ Prevention of future health problems Identify essential drugs (not to be stopped without specialist advice)
	2. 0	dentify ssential drug herapy	Drugs that have essential replacement functions (e.g. thyroxine) Drugs to prevent rapid symptomatic decline (e.g. drugs for Parkinson's disease, heart failure)
	3. 5	loes the satient take innecessary irug therapy?	Identify and review the (continued) need for drugs > with temporary indications > with higher than usual maintenance doses > with limited benefit in general for the indication they are used for > with limited benefit in the patient under review (see Drug efficacy & applicability (NNT) table)
ffectiveness	4. t	herapeutic objectives seing chieved?	Identify the need for adding/intensifying drug therapy in order to achieve therapeutic objectives to achieve symptom control to achieve blochemical/clinical targets to prevent disease progression/exacerbation
Safety	5. 5	Does the satient have LDR or is at isk of ADRs?	Identify patient safety risks by checking for Identify patient safety risks by checking for Identify and interactions (see ADR table) robustness of monitoring mechanisms for high-risk drugs drug-drug and drug-disease interactions risk of accidental overdosing Identify adverse drug effects by checking for specific symptoms/laboratory markers (e.g. hypokalaemia) cumulative adverse drug effects (see ADR table) drugs that may be used to treat ADRs caused by other drugs
Cost- Mectiveness	6. t	s drug herapy cost- ffective?	Identify unnecessarily costly drug therapy by Consider more cost-effective alternatives (but balance against effectiveness, safety, convenience)
Adherence/ Patient enteredness	7.	s the patient villing and ble to take irug therapy s intended?	Identify risks to patient non-adherence by considering Is the medicine in a form that the patient can take? Is the dosing schedule convenient? Is the patient able to take medicines as intended? Might the patient benefit from the Chronic Medication Service (CMS)? Is the patient's pharmacist informed of changes to regimen? Ensure drug therapy changes are tailored to patient preferences by Discuss with the patient/carer/welfare proxy therapeutic objectives and treatment priorities Decide with the patient/carer/welfare proxies what medicines have an effect of sufficient magnitude to consider continuation or discontinuation



Inter-professional prescribing masterclass for medical students and non-medical prescribing students (nurses and pharmacists): a pilot study

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2015, Vol. 60(4) 202–207
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DOI: 10.1177/0036933015606583
scm.sagepub.com

\$SAGE

R Paterson¹, A Rolfe², A Coll³ and M Kinnear⁴

Abstract

Background and aims: Prescribing errors cause significant patient morbidity and mortality. Current legislation allows prescribing by different health professions. Inter-professional collaboration and learning may result in safer prescribing practice. This study aimed to develop, pilot and test the feasibility of a simulated inter-professional prescribing master-class for non-medical prescribing students, medical students and pharmacists.

Methods and results: A three-scenario, simulated patient session was designed and implemented by an expert panel. Medical students, non-medical prescribing students and pharmacists worked together to formulate and implement evidence-based prescriptions. The Readiness for Inter-professional Learning Score (RIPLS) and a self-efficacy score were administered to the students and the Trust in Physician Score to the simulated patients. Overall, the RIPLS and self-efficacy scores increased. Pharmacists showed the highest rating in the Trust in Physician score. Post masterclass group discussions suggested that the intervention was viewed as a positive educational experience.

Conclusion: An inter-professional prescribing masterclass is feasible and acceptable to students. It increases self-efficacy, readiness for inter-professional learning and allows students to learn from, about and with each other. A larger study is warranted and the use of feedback from simulated patients explored further.

Keywords

Prescribing safety, team working, simulation



European Statements of Hospital Pharmacy

Section 4

Clinical Pharmacy Services

Statement 4.1

"Hospital pharmacists should be involved in all patient care settings to prospectively influence collaborative, multidisciplinary therapeutic decision-making; they should play a full part in decision making including advising, implementing and monitoring medication changes in full partnership with patients, carers and other health care professionals."

Statement 4.2

"All prescriptions should be reviewed and validated as soon as possible by a hospital pharmacist. Whenever the clinical situation allows, this review should take place prior to the supply and administration of medicines."

Statement 4.3

"Hospital pharmacists should have access to the patients' health record. Their clinical interventions should be documented in the patients' health record and analysed to inform quality improvement interventions."

Statement 4.4

"All the medicines used by patients should be entered on the patient's medical record and reconciled by the hospital pharmacist on admission. Hospital pharmacists should assess the appropriateness of all patients' medicines, including herbal and dietary supplements."

Statement 4.5

"Hospital pharmacists should promote seamless care by contributing to transfer of information about medicines whenever patients move between and within healthcare settings."

Statement 4.6

"Hospital pharmacists, as an integral part of all patient care teams, should ensure that patients and carers are offered information about their clinical management options, and especially about the use of their medicines, in terms they can understand."

Statement 4.7

"Hospital pharmacists should inform, educate and advise patients, carers and other health care professionals when medicines are used outside of their marketing authorisation"

Statement 4.8

"Clinical pharmacy services should continuously evolve to optimise patients' outcomes."

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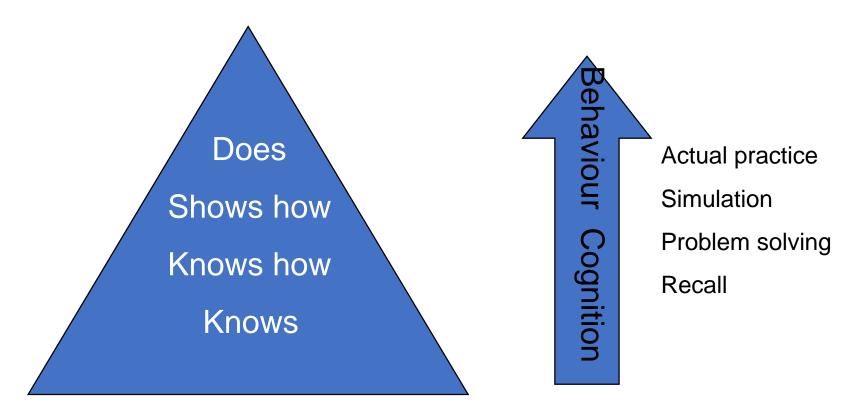






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Summary- Medication Review Practices

