# PCNE 2013 Working Conference Workshop 1 Medication Review Day 3

Berlin, 6-8 February 2013 Chairs: Saija Leikola, Helsinki Foppe van Mil, The Netherlands

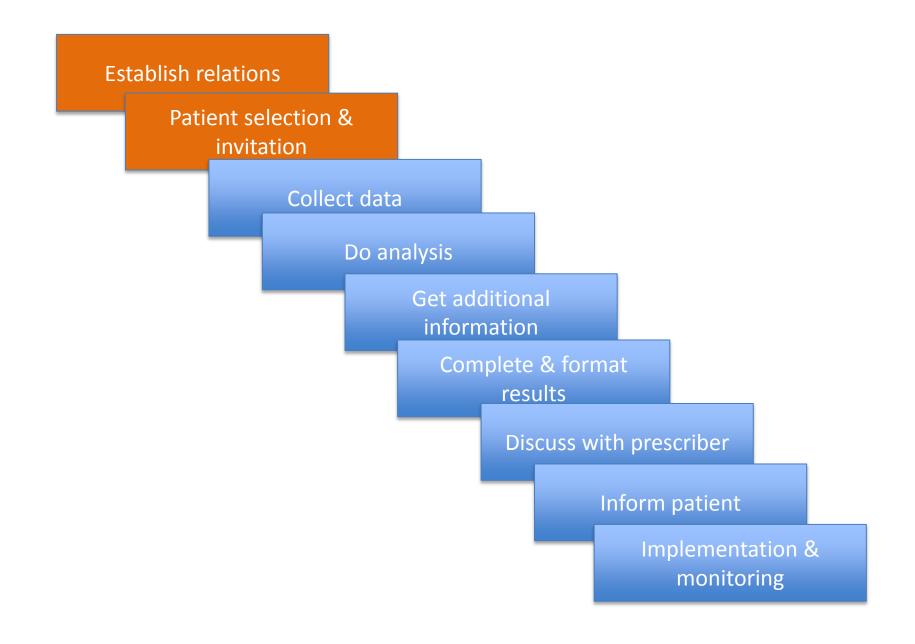


#### What we did....

- Day 1: Focus on the 4 PCNE types of medication review
- Day 2: Focus on methodologies and workflow



#### Clinical patient data Untreated conditions Patient interview Validity of indications Response to therapy Drug doses against indication Ability to use as **Prescriptions** instructed Contraindications Kidney function Drug-related concerns (costs) Sedative, Inappropriat Adverse drug Drug-drug Dose, dosing e drugs serotonergic, reactions interactions, time, -Drug costs Adverse drug (e.g., Beers anticholinera duplication interval reactions criteria<sup>20</sup>) ic load Care guidelines and Some aspects of recommendations effectiveness (e.g., Reimbursements Prescription review: at hospital admission, in nursing homes Concordance and compliance review: at community pharmacies, at hospital discharge Clinical medication review: CMR



	Type 1	Type 2A	Type 2B	Type 3	
Establish relations & inform					
Patient selection & invitation	Only selection	Invitation, how? Letter-Telephone			
Data collection	Pharmacy (Drug list)	Pharmacy & Patient	Pharmacy & Physician	Pharmacy, physician & patient	
The review	Explicit + DDI	OI Match indication-drug + explicit & implicit & DDI's			
Seek additional info	N.a.	Approach patient	Approach physician and/or patient		
Complete & format results	For whom? Problem-Solution-Evidence Document				
Discuss with prescriber	What is important? Who does what?				
Discuss with patient	Only if necessary? Also say if no intervention?				
Etc.					

#### MR for all patients?

- Type 3 review costs 1 ½-2 hours, you can do 4 per working day = 20/week = 1000/year. Most pharmacies have more patients. Most pharmacists also have other tasks.....
- Conclusion: Selection of individuals most at risk for PIMs/DRPs is necessary.



#### Patient inclusion criteria (1)

- Patients older than 60-65 years and/or
- Taking 5 or more regular medications<sup>1</sup> or
- Taking more than 12 doses of medication per day<sup>1</sup> or
- Medication regimen changed four or more times in the last 12 months<sup>1</sup> or
- More than three different (chronic) illnesses<sup>1</sup> or
- History of noncompliance<sup>1</sup> or
- Use of drugs that require therapeutic drug monitoring

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#### Patient inclusion criteria (2)

- Symptoms suggestive of an adverse drug reaction or
- Sub-therapeutic response to treatment with medicines or
- Medication from more than one prescriber or
- At least one chronic disease or one specific chronic disease or
- Total monthly cost of medication exceeds? or
- Patients classified in need of care (AUS)

## Again.... For almost all patients

 So -> Which patients are most at risk for Drug Related Problems (DRPs) or Potentially Inappropriate Medications (PIMs)?

Carole Kaufmann, Switzerland



## Ephor Filter method (NL 2009)

- Method for performing medication review with 6 essential filters, to be adapted to culture/country
- First filter is scoring method for patient selection.



#### Filter 0: patient

- Scoring based on age, number and type of drugs, drugs with small therapeutic margins and kidney function
- Age, number of drugs and kidney function are most important criteria for a method of risk assessment for PIPs, according to literature



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# Filter 0: Triage

Age	<65	0
	66-75	1
	76-85	2
	>85	3
No of	<6	0
drugs	6-9	2
	>9	4
No drugs	Acenocoumarol	1
small ther.	Anti-epileptics	1
Index Max 3	Digoxin	1
	Lithium	1
points	Methotrexate etc.	1

Drug	Cardiovascular	1
groups	Antidiabetics	1
	Anticoagulation	1
Max 6	Neurology/Psych*	1
points	Astma/COPD	1
ماد	NSAIDs	1
* = chronic	Opoids	1
CHIOHIC	Corticosteroids	1
Kidney	GFR >50	0
function	GFR 31-50 Care	2
	GFR 31-50 Care No.	At Euro

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# Ethical dilemma's (5 min./case)

- Very old homebound people vs patient with still a full life before them
- 'Defenceless patients' in homes vs indepentently living elderly
- Many 'quick and dirty' reviews vs a few very thoroughly
- No review if physician does not want to cooperate?
- No review if review is not being paid/remunerated (if applicable)?
- No review if the patient does not want to /cannot pay (if applicable)?

# Small group discussions (30 min.)

- You are the owner of three pharmacies in a small town with 3 GPs. In each pharmacy, you have a pharmacist, and 3 technicians as staff. The GPs ask you to start a Medication review service, for their patients and will cooperate in contributing the clinical data & diagnoses. The GPs find it irrelevant if the patient wants the review, they think all their patients need it.
- Discuss: (1) Which patients would you select first (and why) and (2) How would you do this selection in a pharmacy in your country.

## Competence (45 minutes)

- Three groups
  - Define necessary skills for MR
  - Define necessary knowledge for MR
  - Are the needed skills and knowledge the same for the 4 types of MedRev
  - Discuss if you think an accrediation is necessary and why
  - Exchange the situation in your country regarding competence

#### Presentations & discussions

- Each participant gets 5 minutes to present their own MR project(s), with emphasis on the most remarkable features
- Timekeeper
- 10 Minutes preparation time.

