7th Working Conference of the Pharmaceutical Care Network Europe

Does Pharmaceutical Care Impact on the Safety of Individual Patients?



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Report from WS 3: How to measure individualised patient safety

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WS3 - How to measure individualised patient safety		
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Objectives:

- develop strategies and instruments for community pharmacists in order to improve and monitor patient safety.
- design model(s) of pharmaceutical care plan(s) aimed at improving medication safety issues
- formulate measurable safety outcomes
- develop quality indicators that assess the impact of pharmaceutical care on patient safety on a population level
- → formulate specific research questions /projects

Guiding Idea & Approach

- → Preferably pharmaceutical care leads to improved effectiveness, safety and humanistic outcomes.
- → This WS will focus on safety issues and as an output we expect to formulate recommendations for an enlarged assessment of individualised patient safety; both for practice and for research.
- Current practice (e.g. medication review) is mainly guided by a retrospective approach and looking at drug and therapy related problems.
- → Thus, explicit and prospective assessment of safety issues could/should be introduced into the pharmaceutical care cycle and finally become a new element of the pharmaceutical care plan.

WS 3: Overview

Phase 1

- → Intro: Risk Assessment in Primary Care
- → Discussion of pre-existing concepts / checklists

Phase 2

- → Intro: PCNE levels of Medication Review
- → How to address safety issues in medication reviews?

Phase 3

- → Intro: Development of Quality Indicators
- → Adaption of pre-existing safety outcome measures

Phase 4

→ Strategies to address Research Questions

Phase 1

Discuss and critically appraise usefulness of existing lists (implicit and explicit lists)

- MAI
- Beers
- START / STOPP
- TIMER
- MRCI
- Other?

Brainstorming on the importance for safety.

- Group A: Focus on risky (critical) drugs
- Group B: Focus on risky (vulnerable) patients
- Group C: Focus on risky situations

Critical appraisal of your current practice

General Output from Phase 1

- → Awareness for safety issues in Pharmaceutical Care is increasing
- → Out of 12 WS-participants, 5 were familiar with such tools/checklists; 4 exclusively with respect to research, one related to practice implementation work.
- → Existing tools were estimated helpful, although most were only focusing on the elderly and missing other important patient groups (pregnant, children, handicapped etc.)
- → Important lack of pharmacy practice oriented tools
- → Elements could be integrated in medication reviews?

Specific Output from Phase 1

X: Risky drug

- DK, GE,NL,?, ? have a list of risky drugs
 - Definition of criteria of "risky drug" (pharmacy focused)
 - Creation of a list with ongoing/regular update
 - According Action Plans
 - Possibility to be integrated in automated alert systems
- Further focus: NSAIDS (Frequently used, prescribed + OTC)

Specific Output from Phase 1 (Cont.)

Y: Risky patient

- Mental disorders, pregnancy, elderly, teenagers, cognitive problems, mentally and physically handicapped, language problems, polypharmacy,
- Renal disorder, living alone
- How to recognize risky patients?
 - Asking "right" questions
 - Medication review => documentation
 - Deduced indication from drugs (educated guess)
 - Lab data ?
 - Check of risky patient situation
- Further focus: Triage of customer requesting a painkiller

Specific Output from Phase 1 (cont)

Z: Risky situation

- Discharge
- New treatment
- multiple HP involved
- Further focus: Polypharmacy in the elderly after hospital discharge

Phase 2: Medication Review

PCNE Working Definition (Workshop Geneva Nov.2009)

→ Medication review is an evaluation of patient's medicines with the aim of optimizing the outcome of medicine therapy by detecting, solving and preventing drug-related problems

→ Medication review is an evaluation of patient's drug therapy and use with the aim of optimizing safety and outcomes by detecting, solving and preventing drug-related problems.

Phase 2: Medication Review

How to address safety issues in different levels of medication reviews (MR)?

- → Which items/issues should be integrated in MR?
 - Use / Amendment of known interview guides
 - Pharmaceutical Care Plans ?
- → Descriptions of outcomes measures to assess specific risky drug, risky patient, risky situation?

Levels of Medication Review (PCNE)

"simple" Medication Review

→ based on the medication history in the pharmacy (= Prescription validation ?)



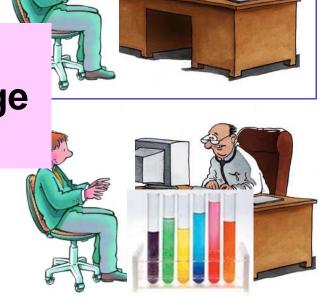
"intermediate" Medication Review

- → Based on medication history +patient interview
 - MUR, Polymedikations-Check
 - "Brown Bag"-Methode

Post Discharge MR

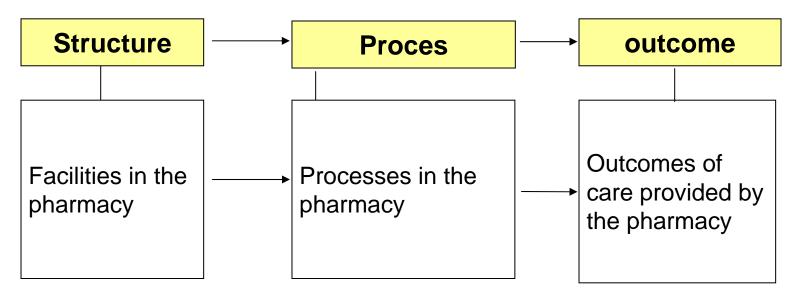
"advanced" Medication Review

- medication history +patient interview +clinical data
 - Clinical Medication Review



Phase 3: Quality Indicators

Measuring quality



Quality indicators / Outcomes

NSAID:

S: Procedure for counsellling direct request OTC

- WHHAM + eye contact (communication style)
- SOP / QM
- IT supported triage algorithm

P: Recording No DRPs with NSAIDS

- No Patients aged > 70 y have NSAID + PPI
- No patients with HF with NSAID
- Involvement of patient in drug choice (joint agreement)
- Influence of pharmacy policy/merchandising on drug choice

P&O:

- No hospital adm with GI bleeding linked to NSAID use
- Perceived ADE

Quality indicators / Outcomes (cont.)

Polypharmacy in the elderly after hospital discharge

Medication plan

- → Continously updated at each HP visit
 - Chronic medication
 - If needed medication
 - Temporary medication
 - Including OTC

Medication History

- → History of dispensed drugs
- Discontinued medication

Shared Itsupported-datafile (reference) Responsible HP?

and/or

paper based (Patient)

Outcome measure for medication plan, after discharge MR

Polymedicated, discharged, elderly NSAID User

- → Rehospitalisation rate (unplanned)
- → Unplanned GP visits
- Patient satisfaction
- (QOL; difficult because non specific)
- Pain control
- → Self efficacy
- → Costs
- → DRPs solved
- → Pain rel. safety

- Brown bag after discharge
- OMA follow up

Inappropriate NSAID request – risks & safety

→ Across EU

- Crosssectional inventary of structure elements
- Mystery shoping scenario
- Direct observations of customer staff interaction

Association of structure elements with performance

