





Pharmaceutical interventions on hospital discharge prescriptions: challenges for community pharmacists

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BACKGROUND

- Transition between hospital and ambulatory care is a delicate step, which involves several healthcare professionals and presents a considerable risk of drug related problems (DRPs)
- ► The community pharmacist plays an active role in preventing and solving medication errors and can increase patient safety
- During transition of care, hospital discharge prescriptions present a particularly high risk of DRPs

This study aimed to investigate pharmaceutical interventions performed by community pharmacists on hospital discharge prescriptions from an internal medicine department

METHODS

- ► Where? 14 community pharmacies
 - A 70-bed internal medicine department in a Swiss regional hospital
- When? October 2015 December 2015 (3 months)
- Who? Patients discharged from the internal medicine ward of the hospital (≥ 4 drugs chronically, capable of discernment, patient's approval)
- What? Pharmaceutical interventions performed by community pharmacists:
 - number and type of pharmaceutical interventions and propositions
 - time spent dealing with discharge prescriptions
 - number of medication changes during transition of care

RESULTS

Pharmaceutical interventions by community pharmacists Number of patients 64 Age, mean \pm SD (range), years 78 \pm 12 (44-98) Number of drugs on discharge prescription, mean \pm SD (range) Total number of interventions performed by community pharmacists on discharge 439 prescriptions Number of interventions per discharge 6.9 \pm 3.5 (1-16)

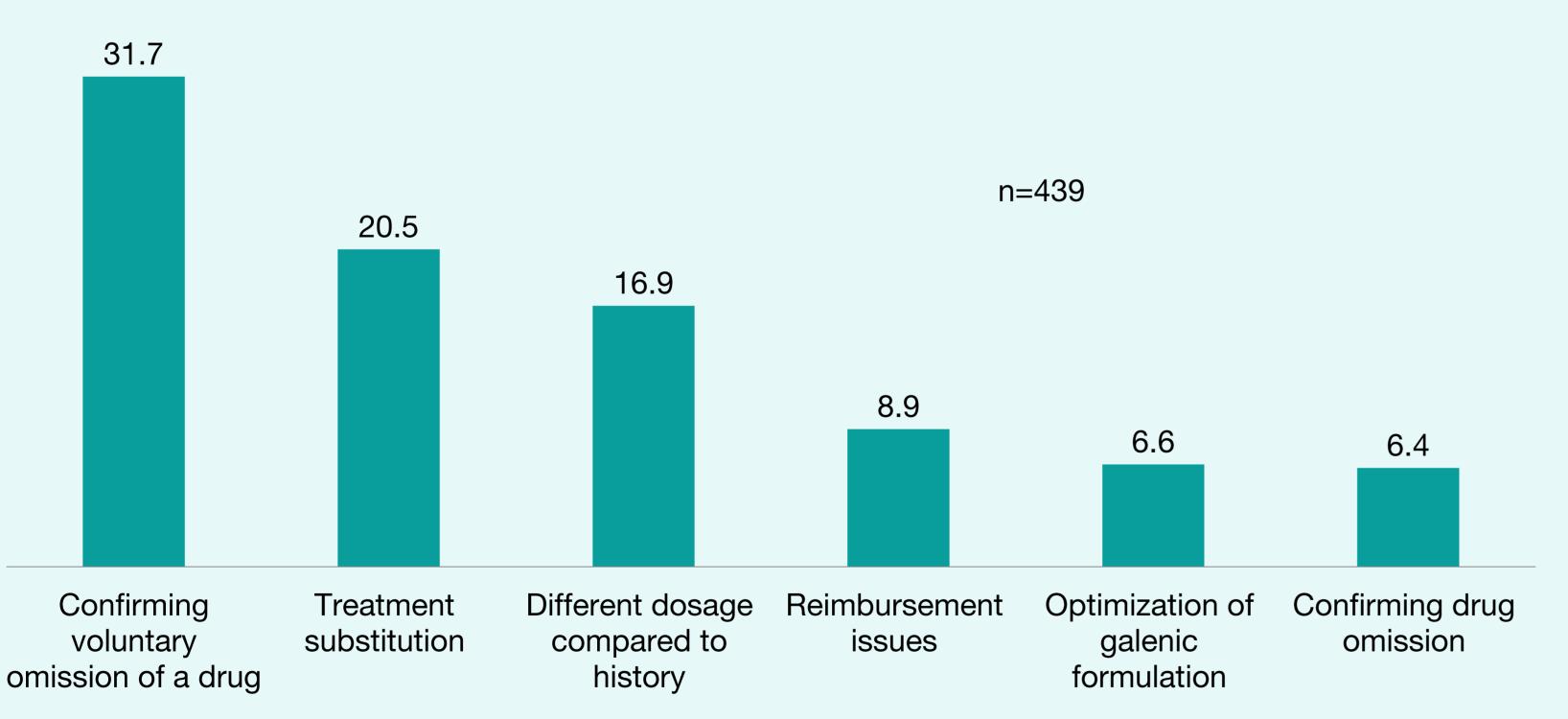


Figure 2: Most frequent pharmaceutical interventions (%)

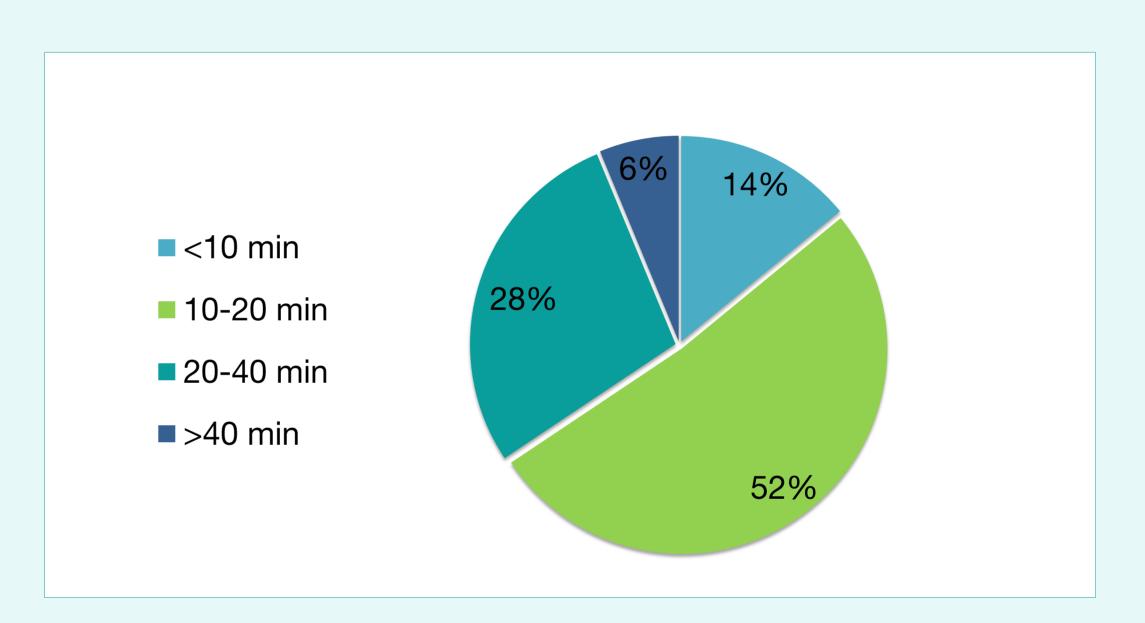


Figure 1: Time spent by community pharmacists dealing with discharge prescriptions

Therapeutic classes most frequently involved (type of pharmaceutical intervention):

- ✓ Analgesics 17% (reimbursement issues, different dosage compared to history)
- ✓ Mineral supplements 10% (treatment substitution, different dosage compared to history)
- ✓ Psychotropic drugs 7% (treatment substitution, voluntary omission)
- ✓ Drugs for acid-related disorders 6% (treatment substitution, different dosage compared to history)
- Agents acting on renin-angiotensin system 6% (voluntary omission, treatment substitution)

The most frequent pharmaceutical proposal was the use of a pillbox

In average 16.4 medication changes during transition of care

9.6 ± 4.5 2.6 ± 1.9 4.2 ± 2.7

CONCLUSIONS

- ► Hospital discharge prescriptions are often complex and present a risk of medication errors
- ► Community pharmacists play a key role in preventing and identifying DRPs, but time required for pharmaceutical validation might be a constraint
- ▶ Medication reconciliation at hospital admission and a better communication of medication changes at discharge may facilitate community pharmacists' work, ensure continuity of care and thus increase patient safety