ASSESSMENT OF THE IMPACT OF PRE-PRESCRIPTION ON THE MEDICATION ERROR RATE DURING THE MEDICATION RECONCILIATION PROCESS

Medication reconciliation is carried out since 2015 in the internal medicine ward.





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Background



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Prescription errors at admission still occur, mainly linked to the transcription in the CPOE system by the physician of the medication history (MH) collected by the pharmacy.

In order to improve the quality of prescription at admission, we studied the implementation of a pharmacist preprescription (PpP) process.

Purpose

To evaluate the impact of the PpP on the number of unintentional medication discrepancies (UMD) at admission.

Methods

Interventional prospective study before/after in a 24-bed internal medicine unit. Eligibility criteria : Age ≥ 65y and/or 3 chronic treatments at admission.

<u>Pre-intervention phase</u> : MH provided by the pharmacist and used by the physician to write the admission prescription.

2 months

Intervention phase : MH entered by the pharmacist in the CPOE system as a PpP and then used by the physician to electronically generate an admission prescription without any transcription.

2 months



Age, sex, number of UMD on the admission prescription, potentiel harm for the patient evaluated by the prescriber and the pharmacist, prescriber satisfaction (survey).

Results

Pré-intervention phase

80 patients, 29♀, 51♂ Age : 68,4 [49,8 ; 87,0] Medications at admission : 8,8 [4,8 ; 12,8]



Conclusion

Amongst the 39 patients for whom PpP was used, **no UMDs were observed**. Pre-prescription by pharmacist decreases the number of UMD at admission. The 4 physicians of the ward were satisfied with this new process as it allowed to reduce medication errors and their time spent on admission prescription.