

CLINICAL PHARMACIST IN THE MULTIDISCIPLINARY TEAM IN THE INTENSIVE CARE UNIT IMPROVES THE QUALITY OF MEDICINE THROUGHOUT THE PATIENT'S HOSPITAL STAY

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Background

Critically ill patients in the intensive care unit (ICU) are particularly vulnerable to errors in medication management, and each care transition increases the risk of medication discrepancies.

Objectives

- Develop a workflow for clinical pharmacist in the multidisciplinary ICU team.
- Improve the documentation of medication lists, optimize medical treatment and avoid drug-related problems (DRPs).

Conclusion

The clinical pharmacist contributed to less medication errors and DRPs and improved documentation of the medication lists throughout the hospital stay.

Results

Quality score medication list

Preintervention control cohort
n= 31

ICU discharge

Average score
5,3 p

Intervention cohort
n = 18

ICU discharge

Average score
9,9 p

Quality scores are based on:

- Source of information
- Correct drug names
- Formulation
- Dosage
- Indication

For discharge summary also:

- Highlighting and explaining changes in medication

Maximum possible scores:

- ICU discharge: 12 points
- Discharge summary: 21 points

Discharge summary

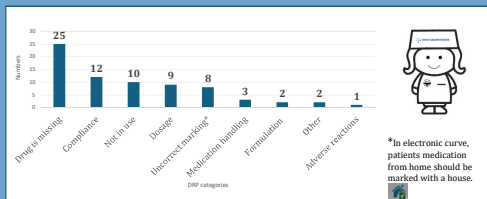
Average score
8,3 p

Discharge summary

Average score
11,5 p

Clinical pharmacist in ICU

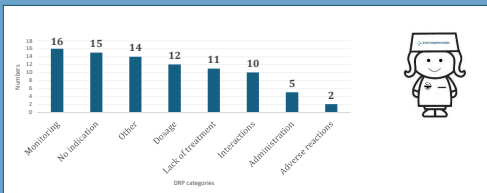
Medication reconciliation: DRPs



Medication reconciliation:

- 19 of 23 patients (82 %) with DRPs
- in average 2,4 drugs with discrepancies per patient
- 55 different drugs

Medication review: DRPs



Medication review:

- 20 of 23 patients (87 %) with DRPs
- 85 different DRPs

Materials and Methods

Preintervention control cohort

- 34 patients in ICU 2020 – spring 2021
- Retrospective review of patient records



Registration in both cohorts

- Quality score of medication list:
- When transferred from ICU in-hospital
 - In the discharge summary

Intervention cohort

- 23 patients in ICU autumn 2021
- Review patient records
- Registration of DRPs



Clinical pharmacist:

- Medication reconciliation
- Medication review
- ICU team member

