ABSTRACT

ANALYSIS OF DRUG-RELATED PROBLEMS IN A HEALTHCARE

FACILITY V.

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INTRODUCTION

Medication errors are one of the most frequent medicinal errors. They affect patient's

safety from the long-term point of view. The great part of medication errors occurs

on the level of drug administration.<sup>2</sup> In healthcare facilities mostly nurses are

responsible for medication administration.<sup>3</sup>

**AIM** 

To obtain and evaluate medication errors during drug administration by nurses in

a healthcare facility.

**METHODICS** 

A prospective observational study was conducted in the facility Hamzova léčebna for

children and adults focusing on medical rehabilitation. Data collection was performed

in May 2019 three consecutive days on each ward, where drugs were administrated by

nurse. Direct observation was done in morning, noon and evening drug

administrations. Obtained data were recorded into prepared form and were compared

with physician's medication order on the patient's record. Afterwards, the forms were

transcripted into online database, data were transfered to MS Excel software

programme and evaluated by descriptive statistics.

**RESULTS** 

Seventeen nurses participated in this study and they performed 2 448 drug

administrations in total. The most occured way of administration was peroral route

(95,92 %). We registered 104 medication errors (4,25 %) in overal amount of administrations. The most common errors were in categories Wrong manipulation with drugs (32,80 %) and Missing date of the first opening (12,59 %). Seven serious errors (6,7 %) with a high risk of subsequent complications for a patient were identified. It was mostly inappropriate tablets splitting or crushing. We also observed adherence of nurses to hygiene standards, where in 37 cases (1,61 %) there was a violation of hygiene guidelines.

## **CONCLUSION**

The occurence of medication errors during drug administration by nurses is significant with potential impact on patient's safety. To minimize their occurence, it can be done by implementation of preventive precautions.

## **KEY WORDS**

Medication errors, drug administration, nurses

## References

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