Abstract

ANALYSIS OF DRUG ADMINISTRATION BY NURSES IN HEALTH FACILITY XII

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Introduction: Medication administration in healthcare facilities significantly affects patient's safety. Observing and analyzing this process provide information about medication administration errors and the factors influencing them. As a result of observational findings, we can create interventions to improve the administration process.

Aim: The aim of this work was to describe and analyze medication administration errors in a healthcare facility.

Methods: The direct observation method was used for observation. Data collection took place in three departments (surgery, neurology, follow-up care) in 2021 and 2022. In both years, collection took place in each department on 3 consecutive days. Morning, midday and evening medication administration was monitored. An electronic database was used for recording. Data evaluation was done in Microsoft Excel and data from 2021 and 2022 were analyzed together. Nurse's work practices and medication errors were evaluated.

Results: In total, 1160 drug administrations to 114 patients were observed. The largest number of administrations took place in morning (57,7 %) and most of administered drugs were in solid oral form (89,9 %). In 49,1 % of administrations, nurses did not perform satisfactory hand hygiene, in 42% they did not identify the patient. The most common medication error was administration at the wrong time (1,1 %). In 14,6 % of administration, nurses performed generic substitution.

Conclusion: Serious medication administration errors occurred in this study less often than in foreign studies, errors related to the practice of nurse's medication administration occurred relatively often. Possible measures to reduce the occurrence of errors are discussed in the work.

Keywords: drug administration, nurse, health care facility.