

"Research shows that work environment and organisation management, in addition to the role of nurses, contribute to the occurrence of an error" Sabzi et al (2019).



Abstract:

BACKGROUND: Medication errors are currently known as the most common medical errors. Research shows that work environment and organisation management, in addition to the role of nurses, contribute to the occurrence of an error. **AIM:** Therefore, the present study was conducted to determine the rate of nurses' medication errors and its relation to the care complexity and work dynamics in the Taleghani Pediatric Hospital of Gorgan in 2017. **MATERIAL AND METHODS:** This was a descriptive-correlational and cross-sectional study. Sampling was done through census method (N = 100). The data collection tools consisted of four questionnaires of demographic information, Salyer work dynamics, Medication Administration Errors, and Velasquez Nursing Care Complexity. Data were analysed in SPSS V.16 software using descriptive and inferential statistical methods including independent t-test and Pearson's correlation. **RESULTS:** Medication calculation errors, wrong dose and wrong medication were the most common non-injectable medication errors, respectively. Drug incompatibility, wrong infusion rate and medication calculation errors were the most common injectable medication errors, respectively. There was a positive correlation between medication calculation errors (P = 0.02, r = 0.23), wrong solvent (P = 0.04, r = 0.21), and drug incompatibility (P = 0.01, r = 0.25) with amount of work dynamics. Also, there was a positive correlation between medication calculation errors (P = 0.03, r = 0.22) and wrong medication (P = 0.00, r = 0.31) with the nursing care complexity. **CONCLUSION:** Regarding

the irrefutable impact of working conditions on the occurrence of errors, it appears that the study and complete recognition of nurses' working conditions and their adjustment would lead to a reduction in medication errors.

Relationship between work commitment and medication errors

Review of doctors attitudes towards medication errors

Electronic-prescribing and infusion-related medication errors

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Reference:

Sabzi, Z., Mohammadi, R., Talebi, R. and Roshandel, G.R. (2019) Medication Errors and Their Relationship with Care Complexity and Work Dynamics. Open Access Macedonian Journal of Medical Sciences. 7(21), p.3579-3583. doi: 10.3889/oamjms.2019.722. eCollection.

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