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Measurement and assessment of patient safety in healthcare entities in the capital city of Warsaw

SUMMARY

Introduction: Patient safety has become an important field of clinical care, research and academic education over the last three decades. The safety climate and safety culture should be considered when measuring and assessing the patient safety. In recent years, many tools have been developed to assess the climate and culture of patient safety. However, the most comprehensive and widespread survey is the Hospital Survey on Patient Safety Culture (HSOPSC) questionnaire (2004).

Aim: The goal of the present study was to assess the patient safety culture in healthcare entities based on the Warsaw sample.

Material and methods: The paper-based polish version of HSOPSC questionnaire was personally distributed among the nursing staff between May 2017 and May 2018. The average response rate for all hospitals was 43.5%. The study was conducted in 4 multisite public hospitals located in Warsaw, Poland. The sample size consisted of 605 nurses. The ASBP, as well as US questionnaire, consists of 42 items (5-point Likert scale). Descriptive statistics for 12 dimensions were performed. Statistical analysis concentrates on Exploratory Factor Analysis (EFA) and Confirmatory Factor Analysis (CFA) techniques with Varimax rotation, Cronbach's alpha, Intercorrelations between the dimensions.

Results: The percentage of positive responses in 12 dimensions ranged from 26.7% (W12 – Non-punitive response to errors) to 66.2% (W1 – Teamwork within unit). EFA (Varimax rotation) analysis yielded 11 dimensions. These dimensions captured 59.6% of the total variance. CFA suggested a semi-adequate fit to the data - GFI=0.86, CFI=0.86, RMSEA=0.05, RMSEA 90% CI = 0.048-0.054. Cronbach's alpha reliability coefficient shows that the removal of item A7 improved the overall reliability of the tool from .89 to .90. Intercorrelations between the scales range between .11 up to .57.

Conclusion: This study demonstrates that the polish version of HSOPSC is an appropriate instrument to assess patient safety culture in hospitals in Poland. The polish version of HSOPSC sounds less psychometrically than the US-origin questionnaire, but is still in line with other European and non-European versions.