

Translation and Determining Psychometrics Properties of Nursing Delirium Screening Scale (Nu-DESC) in patients hospitalized in Ardabil Hospitals

Abstract:

Purpose: Delirium is a fluctuating cognitive disorder that occurs in a short period of time. Early detection accelerates treatment. The aim of this study was to translate and psychometrically evaluate the Delirium Screening Scale by Nurses (Nu-DESC) in patients admitted to Ardabil Teaching Hospitals.

Materials and Methods: The present study is a methodological study to evaluate validity and reliability of the delirium screening scale by Nurse (Nu-DESC). The Research community in this study is non-intubated patients admitted to intensive care units in Ardabil teaching hospitals. After selecting eligible patients, patients were investigated by the Nu-DESC scale. The DSM-5-5 was used as the standard tool to compare the results of the Nu-DESC scale. Data were analyzed by descriptive and analytical statistical methods.

Results: In this study, a total of 96 patients checked out with Nu-DESC, ICDSC and DSM-5-5 scales. Delirium was observed in 38.5% of patients. To evaluate the validity of the criterion with a score of ≤ 2 , Nu-DESC scale, cut-off point of 3, sensitivity of 99%, and specificity of 76% were shown. At this cut-off point, the accuracy was 0.82% and the error percentage was 0.197%, false positive was 0.238%, and false negative was 1.00%. This study also showed that all items of Nu-DESC (1, 2, 3 and 4) and ICDSC (1, 2, 3 and 4) scales did not have a normal distribution ($p < 0.0001$) in terms of kolmogorov-smirnov test.

Conclusion: Based on the results of the thid study, Nu-DESC scale has high correlation, sensitivity and specificity for the diagnosis of delirium disorder. This sclae at the cut-off point 2 can distinguish the case of delirium from healthy individuals with high positive and negative predictive value. Nu-DESC can also help nurses in intensive care units to diagnose delirium quickly and accurately and prevent delays in diagnosing the disorder and its negative consequences. In this way, the Nu-DESC scale can be used by nurses in the intensive care unit as an efficient and reliable scale.

Keywords: Delirium- Intensive Care Unit - Psychometrics Properties