

Abstract

Introduction: Many survivors discharged from the intensive care unit in the physical, psychological and cognitive domains experience symptoms known as post intensive care syndrome. The aim of this study was to investigate the psychometric properties of Healthy Aging Brain Care Monitor-Self Report instrument as a post intensive care syndrome assessment tool in patients discharged from ICU of Ardabil educational and medical centers.

Methods: The present study is a methodological study. 153 patients discharged from ICU by available sampling method were included in the study. Content and face validity, structural validity (factor analysis and convergent validity) and internal consistency were used to evaluate the psychometric properties. Data analysis was performed with SPSS22.0 and LISREL 8.8 software.

Results: The results of confirmatory factor analysis showed that the 27-item and 3 dimensions model fit indices of the instrument were unacceptable. After removing the items with low load in the psychological dimension and the results of Exploratory factor analysis, a 19-item model with 3 dimensions was obtained and these three dimensions explained 78.75% of the total variance that the fit indices including CFI, IFI , NFI also confirmed the 19-item model (above 0.9). Internal consistency and convergent validity confirmed both the 27-item and 19-item instrument models. The Cronbach's alpha coefficient of the whole instrument in the 27-item and 19-item models was 0.93 and 0.94.

Conclusion: Although the appropriate model for HABC-M SR in Iranian society is a tool with 19 items, but due to the positive score in a significant number of patients in the questions removed from the psychological and acceptable the psychometric properties of the main instrument with 27 items (other than factor structure) are suggested the 27-item instrument should be used in all PICS symptom studies to be effective in identifying the symptoms of mental disorders.

Keywords: Post-Intensive Care Syndrome, Intensive Care, Psychometrics, ICU Survivors, HABC-M SR Instrument