

PSYCHOMETRIC PROPERTIES OF THE TURKISH VERSION OF THE MILD BEHAVIORAL IMPAIRMENT CHECKLIST IN PEOPLE WITH SUBJECTIVE COGNITIVE DECLINE

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BACKGROUND AND AIM: The Mild Behavioral Impairment Checklist (MBI-C) has been developed for the assessment and standardization of neuropsychiatric symptoms. The Turkish version has been shown to be valid and reliable in cognitively impaired patients. The aim of this study was to examine the psychometric properties of the MBI-C in patients with subjective cognitive decline.

METHODS: The study sample consisted of 180 people with no cognitive impairment on standardized tests who consented to participate in the study; 80 of these people had subjective cognitive decline, and 100 people had no subjective cognitive decline. The participants were assessed using the Subjective Memory Complaints Questionnaire, the Standardized Mini-Mental State Examination (MMSE), the Geriatric Depression Scale (GDS)-15, the MBI-C, and the Neuropsychiatric Inventory (NPI). Ethics committee approval was obtained with protocol number 2023/41 from Kocaeli City Hospital.

RESULTS: In the reliability analysis, the Cronbach alpha value for the MBI-C was found to be 0.902. In the ROC analysis performed

on the total score of The MBI-C, the area under the curve (AUC) was calculated as 0.756 and the cut-off score was determined as 6.5; the sensitivity was calculated as 0.72 and the specificity as 0.68. A strong positive correlation was found between the MBI-C and the NPI scores ($\rho = 0.960$, $p < 0.001$). A significant positive correlation was found between the MBI-C total score, the GDS-15 total score, and the Subjective Memory Complaints Questionnaire total score, but no significant correlation was found with the MMSE total score ($p < 0.001$, $\rho = 0.585$; $p < 0.001$, $\rho = 0.424$; $p = 0.144$). In both the mild behavioral impairment and non-mild behavioral impairment groups, 45 (50%) were female. Psychiatric history was significantly higher in the mild behavioral impairment group ($p < 0.001$).

CONCLUSIONS: The Turkish version of the MBI-C has good reliability and validity in detecting mild behavioral impairment in people with subjective cognitive decline but no cognitive impairment.

Keywords: Mild behavioral impairment, mild behavioral impairment checklist, subjective cognitive decline