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Malay translation and validation of the quality of life after brain injury (QOLIBRI) questionnaire for individuals with traumatic brain injury

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Abstract

Background & Objectives: The Quality of Life after Brain Injury (QOLIBRI) is a health-related quality of life (QOL) questionnaire for individuals with traumatic brain injury (TBI). The aim of this study was to translate and validate the Malay version of QOLIBRI (M-QOLIBRI).

Methods: One hundred sixty-two individuals with TBI participated in this cross-sectional and validation study. Internal consistency, concurrent-criterion validity, construct validity, and test-retest reliability were assessed with Cronbach's alpha, Spearman's correlation coefficient, confirmatory factor analysis, and intraclass correlation coefficient (ICC).

Results: M-QOLIBRI was proven reliable, with an overall alpha value of 0.911 and an ICC value of 1.00. The t-test result showed insignificant differences between the first and second administration of M-QOLIBRI ($t = 1.897$, $p > 0.05$). No significant correlation existed between the M-QOLIBRI score and patients' age ($r = -.111$, $p > 0.05$) and time since injury ($r = -.117$, $p > 0.05$). Factor analysis was used to check for the validity of the instrument. The KMO value in this study was acceptable (0.786), which proved that the sample size was adequate.

Conclusions: This study demonstrated that M-QOLIBRI is a valid and reliable tool to assess the health-related QOL after brain injury of Malaysian population.

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