

Reliability and validity of the Malay version of caregiver Quality of Life Index-Cancer (CQOLC) scale in Malaysian cancer caregivers

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ABSTRACT

Introduction: There is no disease-specific instrument to measure the quality of life of cancer caregivers in Malaysia. We aimed to validate the Malay version of the Caregiver Quality of Life Index-Cancer (Malay-CQOLC) scale in Malaysian Cancer Caregivers. **Methods:** This is a cross-sectional study performed from September 2022 to July 2023. A total of 310 cancer caregivers from the cancer centre in Johor participated in the study. The Malay-CQOLC scale has 35 items consisting of 4 domains namely burden, positive adaptation, disruptiveness and financial concern. Internal consistency was determined by Cronbach's alpha. Varimax rotation was used to determine the construct validity. **Results:** The majority of the participants were female (62.8%), married (68.3%), and Malay (70.6%) with a mean age of 40.0 ± 12.63 . Internal consistency (Cronbach's alpha) of the total and domain scores ranged from 0.80 to 0.91 indicating a good reliability of the instrument. EFA using different factor extraction methods yielded 2 models. There are 4 factors in Model 1 and 8 factors in Model 2 with a KMO value of 0.898 and significant Bartlett's test of Sphericity ($p < 0.001$) respectively. The factor loading for Model 1 ranged between 0.350-0.797 with an explained variation of 50.7%. The factor loading for Model 2 ranged between 0.343 and 0.847 with an explained variation of 60.4%. **Conclusion:** The Malay-CQOLC scale was found to be a valid and reliable instrument to be used for Malaysian cancer caregivers.