

# Psychometric evaluation of the Taiwanese version of the Kiddo-KINDL®;generic children's health-related quality

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摘要

## Abstract

**BACKGROUND:** Health-related quality of life measures are increasingly being used in evaluating health care outcome around the world. There is a demand for the development of quality of life measures to be used cross-culturally. The aim of this study is to evaluate the psychometric properties of the Taiwanese version of Kiddo-KINDL, a health-related quality of life questionnaire. **METHODS:** The original German-version of Kiddo-KINDL was translated into Chinese (Taiwanese) via the forward/backward translation process. Psychometric testing was performed with a national sample of 1,985 healthy students between the ages of 12 and 16. Data were analyzed based on 1,675 usable questionnaires. **RESULTS:** The reliability coefficients were  $\alpha = 0.81$  (overall) and  $-0.31$  to  $0.84$  for six subscales. The subscales with low Cronbach's alpha were "school" and "friends." Test-retest reliability was  $0.77$ . Convergent validity was examined with the broadly used Taiwanese version of the Adolescent Depressive Mood Self-Detecting Scale. The result was satisfactory. Construct validity was further examined with exploratory factor analysis. The six-factor solution explained  $45.2\%$  of the variance. The construct of Kiddo-KINDL (Taiwanese version) appeared to be appropriate for measuring health-related quality of life in healthy adolescents. **CONCLUSIONS:** Kiddo-KINDL (Taiwanese version) is a relatively reliable and valid questionnaire of adolescents' health-related quality of life. However, items in the "school" and "friends" subscales need to be further modified to be more culturally appropriate.