

Establishing the cultural equivalence of the Participation and Environment Measure for Children and Youth (PEM-CY) for use in Korea

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Introduction/Rationale: The Participation and Environment Measure for Children and Youth (PEM-CY) is a new parent-reported measure evaluating participation of children in typical activities and environmental factors at home, school and in the community. Although PEM-CY has reliability and validity in North America, no studies have yet reported its psychometric properties for Korean children.

Objectives: To examine the reliability and validity of the PEM-CY in Korean children with and without disabilities aged 5 to 13 years.

Method: This prospective cohort study translated the PEM-CY to Korean via the standard process (pre-review, translation, back-translation, expert committee review of all translation versions, and pre-testing with 10 parents of children with disabilities). To determine its psychometric properties, this study recruited 171 parents of children who met the following inclusion criteria: 1) parent or caregiver of a child, 2) understand Korean, 3) have a child aged 5 to 13 years with or without disabilities, 4) live in the city of Daejeon in South Korea. Cronbach's alpha and intra-class correlation coefficient were calculated to examine the internal consistency and test-retest reliability. T-test for independent sample, one-way ANOVA and factorial ANOVA were applied to establish the construct validity.

Practice Implication: This study provided information on whether PEM-CY is a reliable and valid tool for Korean children. Results will help OTs to better understand children's participation patterns and the impact of environmental factors on their participation according to the presence of a disability, age, and gender.

Conclusion: PEM-CY has the potential to measure participation of Korean children and environmental factors.