

TITLE

Objective: To discuss the rationale for and psychometric properties of the Pediatric Measure of Participation Short Form Version 2.0

Methods: This was a mixed methods non-experimental study to develop Version 2.0 of the Pediatric Measure of Participation (PMoP) Short Form (SF). The PMoP Version 1.0 has been described at previously, and is a child- and parent- reported outcome instrument developed using Item Response Theory (IRT) that measures children's participation compared to their own desired level of participation and compared to their friends' participation. As part of a larger study designed to develop cross-walks between pediatric and adult SCI measures, the Pediatric Measure of Participation (PMoP) Short Form (SF) Version 1.0 was administered to 101 children with SCI across three facilities in the United States. Analyses revealed an unacceptable number of SF items that were either skipped or identified as "not doing." Upon these findings, we conducted a retrospective review of the PMoP calibration data (n=387 children) to examine the response rate of "does not do" for all of the PMoP items, including those on the SF Version 1.0, and removed all version 1.0 SF items that had more than 20% response as "does not do." Noting differences in "don't do" as a function of age and school attendance, we also decided to create SF for three child age groups (8-11; 12-15; 16-21) and four parent groups (4-7; 8-11; 12-15; 16-21), and identifying the school items as "optional." We examined the psychometric properties of the PMoP SF Version 2.0 using the calibration sample data.

Results: Group reliability was acceptable (Chronbach's Alpha = .80-.90). Correlation between the PMoP Version 2.0 SFs and full PMoP item bank was moderate to strong ($r=.823-.952$). Ceiling and floor effects were acceptable (<20%). Test information function showed that the SF items provided adequate coverage of the sample proportion.

Conclusion: The PMoP SFs Version 2.0 consists of three different child reported SF, one each for age 8-11, 12-15 and 16-21 and four different parent reported SF one each for age 4-7, 8-11, 12-15 and 16-21. Each SF contains school items that are optional. Transformation tables to convert the raw score into the T-metric have been created. Because the PMoP was developed using IRT, PMoP scores can be compared across SF and children even though items may differ. The PMoP SF Version 2.0 are available at no cost, and the PMoP SF Version 1.0 should no longer be used.

Learning Objective: To describe the rationale and need for the PMoP Version 2.0, and to discuss the psychometric properties.

Bibliography:

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