

## **P84 MyCommunication-Adults: Psychometric properties of a new generic communicative participation measure and development of short forms**

Nicole ter Wal<sup>1,2</sup>, Lizet van Ewijk<sup>1</sup>, Eline Alons<sup>1,2</sup>, Benjamin D. Schalet<sup>3</sup>, Johanna M.A. Visser-Meily<sup>4</sup>, Ellen Gerrits<sup>1,2</sup>, Caroline B. Terwee<sup>3</sup>

<sup>1</sup>HU University of Applied Sciences Utrecht, Utrecht, Netherlands. <sup>2</sup>University Utrecht, Utrecht, Netherlands. <sup>3</sup>Amsterdam UMC, Amsterdam, Netherlands. <sup>4</sup>University Medical Centre Utrecht, Utrecht, Netherlands

**Objective:** The aim of this study was to evaluate the structural validity, construct validity, and reliability of *MyCommunication-Adults*, a newly developed Patient-Reported Outcome Measure (PROM) in the form of an item bank, designed to assess communicative participation in adults with a wide range of communication problems. In addition, the aim was to develop short forms for clinical use.

**Methods:** The preliminary item bank consisting of 133 items - previously tested on its content validity - was administered to 500 adults with communication problems. Participants also completed the Dutch CPIB short form and the PROMIS<sup>®</sup> v2.0 short form 8a (Ability to Participate in Social Roles and Activities). Structural validity was assessed using Confirmatory Factor Analysis (CFA) and Item Response Theory (IRT). Construct validity was evaluated through Pearson correlations, and reliability was evaluated for both the full item bank and the derived short forms.

**Results:** The final *MyCommunication-Adults* item bank was reduced to 42 items. CFA results indicated sufficient unidimensionality (CFI = .992, TLI = .991, RMSEA = .085, with no local dependence and good item fit). Construct validity was supported by a high correlation with the Dutch CPIB short form ( $r = .85$ ) and a moderate correlation with PROMIS-APS ( $r = .57$ ), indicating that *MyCommunication-Adults* measures a related but distinct construct from participation. Two short forms were developed: one for unemployed adults (9 items) and one for employed adults (10 items). Reliability was high across the full item bank and both short forms (reliability > 0.90 across more than 2 SD in the clinical range).

**Conclusions:** *MyCommunication-Adults* demonstrates sufficient psychometric properties and offers a valid and reliable PROM for assessing communicative participation in Dutch adults with diverse communication problems. The short forms provide efficient measures for clinical use, supporting individualized care and shared decision-making.