2021 ANNUAL REPORT

SIG/Committee Name: Psychometrics SIG   **Date: 02/10/2021**

Co-Chairs: John Devin Peipert, Henrick Eshoj and Philip Griffiths   **Board Liaison: Jakob Bjorner**

Mission: The goals of the Psychometric SIG are to: 1) advance the science of HRQOL research through the application of psychometric methods; and 2) educate researchers and clinicians on the appropriate use of psychometric methods. The field of psychometrics plays a critical role in HRQOL research. Psychometrics plays a key role alongside qualitative methods to develop and evaluate HRQOL measures. Further, structural equation models provide an incredible methodology for looking at associations among HRQOL variables or to model changeover time when there are multiple endpoints or mediating/moderating factors.

Number of SIG Members:

Project/Objective	Actions/Deliverables	Methods, Theory or Application Project	Project Chair	Project Members	Timeline
1. 2020 ISOQOL SIG Symposium: "Psychometrics and Response Shift SIGs: How to Assess and Interpret Measurement Properties and Change Over Time using Longitudinal Item Response Theory (LIRT)"	6 symposium presentations and 3 manuscripts	Methods	Pip Griffiths and Henrik Rode Eshoj, Frances Yang	Frances Yang, Andrew Trigg, Jakob Bjorner, Berend Terluin, Myriam Blanchin, Carrie Houts	Presentations given at virtual 2020 ISOQOL conference. Tutorial manuscripts based on the presentations are in progression and are scheduled for submission in 2021-2022.
2. *Quality of Life Research* Special Issue: "Methodologies and Considerations for Meaningful Change"	There was a need for a go-to resource for meaningful change methods in the field. Working with the psychometrics SIG, we worked to commission a special issue in QLR and compile a call for letters of intent. In addition, several SIG members submitted manuscripts in response to this call, organised through the Teamwork platform.	Methods	Pip Griffiths	Henrik Rode Eshoj, Frances Yang	Manuscript proposals are currently under review.
3. Cross-SIG Collaboration on Data Visualization	One element of this project is a collaboration with other SIGs to write a review paper on best practices around visualizing PRO data across settings (e.g., routine patient monitoring, clinical trials) and to identify opportunities for standardization. There is a second element of the project wherein a select group has submitted a workshop proposal around PRO data visualization for ISOQOL 2021.	Application	John Devin Peipert	Ethan Arenson	Review paper will be developed over 2021 and likely submitted in 2022.