



## The 6th Annual PROMIS International Conference

This year's annual PROMIS conference is a virtual event. To account for different time zones and facilitate networking and discussion, the plenaries and symposium are organized during core times that most people can attend. Other sessions have duplicate opportunities before and after the core time each day to maximize accessibility to attend at least one of each pair. (is pair the right word here?) Session formats are as follows:

**PLENARIES/SYMPOSIUM:** Invited presentations around significant PRO themes at a time when most people can attend. Includes Q&A and/or moderated discussion.

**ORAL SESSIONS:** Five presentations organized by a common topic and at a time reflective of the presenters' time zone. Includes Q&A after each presentation.

**POSTER SESSIONS:** Posters will be available online and accompanied by a brief video presentation. Poster sessions are coordinated dependent on time zone, during which presenters will be available for Q&A.

**ROUNDTABLES:** Moderated discussion opportunities for networking and sharing experiences around a common topic. Since spaces are limited, pre-registration is necessary!

**MEET THE EXPERTS:** PROMIS experts will host their own zoom rooms to encourage networking and discussion.

**EMR/HIT DEMOS:** Demonstrations of software implementations of PROMIS tools. Opportunities for Q&A and discussion.

**We look forward to your participation in this virtual format and encourage your active dialogue with colleagues in the various sessions.**

### Sunday, October 25

**6:30 - 7:30 am CT/  
7:30 - 8:30 am ET**

#### **POSTER SESSION #1**

#### **Abstract**

- 106 PROMIS® Pediatric Self Report Profile-25 distinguishes subgroups of children with two common pediatric knee injuries.
- 107 PROMIS® Pediatric Self Report and Proxy Profile-25 compared to a quality-of-life instrument
- 112 Psychometrics of three Swedish pediatric item banks from the Patient-Reported Outcomes Measurement Information System (PROMIS)®
- 113 Parental caregiver burden and recovery of adolescent anorexia nervosa after multi-family therapy
- 117 PROMIS in English- speaking countries – A systematic review of the evidence for measurement invariance of PROMIS tools
- 119 Development and pilot testing a self-reported pediatric PROMIS app for young children aged 5-7 years
- 120 Difficulties in conducting online surveys among children and adolescents using translated Short Form of the PROMIS Ped SF v2.0 – Depressive Symptoms 8b and modified Korovessis questionnaire
- 126 Estimating power for clinical trials with PROMIS endpoints using Item Response Theory
- 168 Progress in clinical application of patient reported outcomes
- 170 Psychometric properties of PROMIS Anxiety and Depression Short Forms among breast cancer patients in China
- 172 Using cognitive Interviewing to adapt PROMIS® measure items of self-efficacy for managing chronic conditions in Chinese cross-cultural Translation
- 174 The Patient-Reported Outcomes Measurement Information System (PROMIS®) Physical Function measures in adults – A systematic review of measurement properties.

7:30 - 9:00 am CT/

**ORAL PRESENTATIONS #1: USE OF PROMIS IN CLINICAL PRACTICE**

8:30 – 10:00 am ET

Moderator: *Istvan Mucsi, MD, PhD, University of Toronto***Abstract**

- 101 Developing PROMIS-based research and clinical profiles for patients with heart failure. *Faraz Ahmad, MD, MS*
- 110 Interpretation of PROMIS Fatigue CAT scores in solid organ transplant recipients. *Sumaya Dano, HBSc*
- 121 Feasibility using PROMIS-CAT in a sports medicine center and regenerative medicine registry in outpatient setting. *Marc Gruner, DO, MBA, AMSK*
- 142 Clinically relevant thresholds and meaningful differences for PROMIS Physical Function and I-RODS: patient survey in CIDP. *Rajiv Mallick, PhD*
- 154 PROMIS-29 Domains associated with dissatisfaction in spine surgery patients who improve in pain and Functioning. *Jacquelyn S. Pennings, PhD*

9:00 - 9:30 am CT/

**CONFERENCE WELCOME AND OPENING REMARKS:**

10:00 – 10:30 am ET

PHO President, *Caroline Terwee, PhD*Conference Co-Chairs: *Michelle Langer, PhD & Felix Fischer, PhD*

9:30 - 11:30 am CT/

**PLENARY #1: CLINICAL IMPLEMENTATION OF PROS**

10:30 – 12:30 pm ET

Moderator: *Judy Baumhauer, MD, MPH, University of Rochester***Navigating PRO Implementation from a Systems Lens***Danielle Lavalley, PhD, PharmD, BC Academic Health Science Network**Elizabeth Austin, MPH, University of Washington***Integrating PROMIS into Clinical Assessment for Symptom Management in Chronic Illness: The NMPRO Experience***Betina Yanez, PhD and John Devin Peipert, PhD, Northwestern University***Patient-Centered Care for Stroke Patients Using PROMIS Measures: Learned Lessons and Future Ambitions***Valentijn Zonjee, MD, OLVG Amsterdam*

11:30 - 12:30 pm CT/

**SOCIAL EVENT**

12:30 – 1:30 pm ET



12:30 - 2:00 pm CT/  
1:30 – 3:00 pm ET

**ORAL PRESENTATIONS #2: PROMIS IN HEALTH INFORMATION TECHNOLOGY**

Moderator: *Chris Sidey-Gibbons, PhD, University of Texas MD Anderson Cancer Center*

**Abstract**

- 136 Integrating PROMIS CAT collection into Epic: tips for success. *Eric Makhni, MD, MBA*
- 155 Leveraging EPIC to collect PROMIS CAT scores for orthopaedic surgery patients to create a blueprint for system-wide expansion. *Ian Perry, BSE*
- 160 Reducing patient and provider burden: Methodology for automated collection of PROMIS CAT in EPIC. *Stacy Schmitt, MBA*
- 161 Incorporating PROMIS into the CIBMTR hematopoietic cell transplant outcomes registry. *Bronwen Shaw, MD, PhD*
- 167 Effectiveness of automated EMR notification for prompting provider intervention for severe depression. *Mark Vrahas, MD*

2:00 – 3:00 pm CT/  
3:00 – 4:00 pm ET

**POSTER SESSION #2 – See attached Poster List for Presenters**

**Abstract**

- 108 Patient-centered approach to response-level missing data
- 109 Measurement of minimal disease activity in psoriatic arthritis using PROMIS-Physical Function or the Health Assessment Questionnaire-Disability Index
- 114 Measuring function in a multidisciplinary osteogenesis imperfecta clinic
- 122 Digital application was superior to physical therapy for orthopedic knee injuries assessed by PROMIS® measures
- 125 Is unacceptable self-efficacy associated with unacceptable physical health domain function and symptoms?
- 128 Investigating parameter stability in the presence of high slopes
- 138 Role of pre-operative PROMIS scores in predicting post-operative outcomes and likelihood of achieving MCID following arthroscopic rotator cuff repair
- 145 Enhanced patient reported outcomes to support availability of comprehensive data for telehealth visits during COVID – 19
- 146 Is PROMIS a useful outcomes tool for children with arthrogyrosis?
- 148 PROMIS in clinical practice: Results of qualitative interviews with patients completing patient-reported outcomes
- 149 Premorbid depression and onset of multiple sclerosis
- 150 Mindfulness art-based therapy- PROMIS Fatigue and influence of multiple sclerosis and global-A pilot study
- 156 Patient- Reported Outcomes after risk-reducing gynecologic surgery for hereditary breast and ovarian cancer syndromes
- 162 PROMIS scores for children with unilateral congenital below elbow efficiency (UCBED)
- 164 Predicting score for the EORTC QLQ C-30 using linear modeling of PROMIS Global Health responses

## Monday, October 26

**7:00 – 8:00 am CT/**      **EMR/HIT DEMOS A Zoom**  
**8:00 – 9:00 am ET**      Vendors TBD

**7:00 – 8:00 am CT/**      **MEET THE EXPERTS #1 Zoom**  
**8:00 – 9:00 am ET**

*Judy Baumhauer, MD, MPH* - Expertise: Clinical Interpretation, Clinical Implementation

*Christopher Forrest, MD, PhD* - Expertise: Pediatric Applications Of PROMIS, Learning Health Systems

*Benjamin Schalet, PhD* – Expertise: Measure Selection, Psychometrics, Score Interpretation, Measure Development

*Lisa Shulman, MD* - Expertise: Neurology, Clinical Implementation

*Caroline Terwee, PhD* - Expertise: Measure Selection, Translation, Validation of Proms

*Changrong Yuan, PhD, RN, FAAN* - Expertise: Measure Selection, Psychometrics, Data Collection Tools, Translations, Measure Development

**8:00 - 9:00 am CT/**      **ROUNDTABLES Zoom A (pre-registration required)**  
**9:00 – 10:00 am ET**

**Barriers/Facilitators to Clinical Implementation.** Moderator: *Janel Hanmer, MD, PhD*

**PROMIS Domain Selection.** Moderator: *Michelle Langer, PhD*

**Psychometric Advances.** Moderator: *Felix Fischer, PhD*

**Score Interpretation (Benchmarking, Cut-Points/Decision Rules).** Moderator: *Caroline Terwee, PhD*

**Translations and Cultural Adaptation.** Moderator: *Sara Ahmed, PT, PhD*

**Using PROMIS for Quality Measurement.** Moderator: *Maria Edelen, PhD*

**Using PROMIS for Shared Decision-Making.** Moderator: *David Cella, PhD*

**Using PROMIS in Clinical Trials.** Moderator: *John Devin Peipert, PhD*

**9:00 - 11:00 am CT/**      **PLENARY #2: METHODOLOGICAL INNOVATIONS IN PRO MEASUREMENT**  
**10:00 – 12:00 ET**      Moderator: *Jakob Bjorner, MD, PhD. Chief Science Officer Optum Insight & University of Copenhagen*

**Patient reported outcome development for rare diseases: Psychometric and methodological considerations**

*RJ Wirth, PhD, Vector Psychometric Group*

**Decision Science and PROMIS: Opportunities for Researchers, Clinicians, and Policymakers**

*Barry DeWitt, PhD, Carnegie Mellon*

**Current Methods for Translating COA Scores Into Clinical Benefits**

*Cheryl Coon, PhD, Principal, Outcometrix*

11:00- 1:00 pm CT/  
12:00 – 2:00 ET

**PLENARY #3: PROMIS IN PEDIATRICS: PEPR RESULTS**  
Moderator: Richard Gershon, PhD, Northwestern University

**Validation and Use of the PROMIS Pediatric Measures in Pediatric Inflammatory Bowel Diseases**

*Erica Brenner, MD, University of North Carolina at Chapel Hill*

**Interpreting PROMIS Pediatric Patient-Reported Outcomes Scores: Applications to Children with Chronic Diseases**

*Chris Forrest, MD, PhD, & Julia Schuchard, PhD, Children's Hospital of Philadelphia*

**The PROMIS Itch Questionnaire - Child: A New Tool for Evaluating Pruritus in Children and Adolescents**

*Amy Paller, MD & Jin Shei Lai, PhD, OTR/L, Northwestern University*

**Use of New Pediatric PROMIS Domains in Children with Chronic Disease**

*Julie Panepinto, MD, MSPH, FAAP, Medical College of Wisconsin*

1:00 – 2:00 pm CT/  
2:00 – 3:00 pm ET

**ROUNDTABLES Zoom B - (pre-registration required)**

**Barriers/Facilitators to Clinical Implementation; PROMIS Domain Selection.** Moderator: *Nan Rothrock, PhD*

**Psychometric Advances.** Moderator: *Chris Sidey-Gibbons, PhD*

**Score Interpretation (Benchmarking, Cut-Points/Decision Rules).** Moderator: *Jeff Houck, PT, PhD*

**Translations and Cultural Adaptation.** Moderator: *Helena Correia, Lic*

**Using PROMIS for Quality Measurement.** Moderator: *Dagmar Amtmann, PhD*

**Using PROMIS for Quality Measurement.** Moderator: *Patricia Franklin, MD, MPH, MBA*

**Using PROMIS for Shared Decision-Making.** Moderator: *Rick Sawatzky, PhD, RN*

**Using PROMIS in Clinical Trials.** Moderator: *Karen Kaiser, PhD*

2:00 – 3:00 pm CT/  
3:00 – 4:00 pm ET

**EMR/HIT DEMOS B Zoom**

Vendors TBD

2:00 – 3:00 pm CT/  
3:00 – 4:00 pm ET

**MEET THE EXPERTS #2 Zoom**

*Michael Bass, PhD* - Expertise: PRO Software implementation

*Helena Correia, Lic.* - Expertise: Translations

*Richard Gershon, PhD* - Expertise: Score Interpretation, Psychometrics, Data Collection Tools, Translations, Measure Development

*Irene Katzan, MD, MS* - Expertise: Clinical Implementation, Clinical Specialty - Neurological Diseases

*Nan Rothrock, PhD* - Expertise: Orthopaedic Surgery, Oncology, Clinical Implementation, Score Interpretation, Measure Selection, Measure Development

*Brennan Spiegel, MD, MSHS* - Expertise:

## Tuesday, October 27

6:30 - 7:30 am CT/ POSTER SESSION #3  
7:30 – 8:30 am ET

### Abstract

- 123 PROMIS and PROs in the symptoms system - visualizing health in clinical care
- 129 Comparing PROMIS® Global Health-10 and EQ-5D: sensitivity to clinical cut-off scores for anxiety and depression.
- 131 Validation of the PROMIS® Pediatric Item Banks anxiety and depressive symptoms in a general Dutch population
- 134 A promising prospect of measuring pediatric general health: A comparison of the PROMIS® pediatric Global Health scale (PGH-7) and the Pediatric Quality of Life Inventory (PedsQLTM).
- 135 How the COVID-19 pandemic impacts the psychosocial well-being of children and adolescents in the Netherlands.
- 157 Validation after translation of PROMIS® profile 57 Norwegian with factor analysis, IRT and DIF analysis
- 158 Word selection for translating PROMIS® fatigue items, using a lay person panel
- 159 Validation of the PROMIS Sleep Disturbance and Sleep-related Impairment item banks in the Dutch general population
- 163 Measurement properties of PROMIS short forms for pain and function in three samples of orthopaedic patients
- 165 Common patient-reported outcomes across ICHOM Standard Sets – the value of PROMIS
- 166 Smallest Detectable Change (SDC) and Minimal Important Change (MIC) of PROMIS instruments – A systematic review
- 171 Psychometric evaluation of PROMIS-Social Relationships Short Forms 4a among patients with breast cancer in China
- 173 Development of a pediatric PROMIS mini-program based on Wechat application for children and adolescents

7:30 - 9:00 am CT/ ORAL PRESENTATIONS #3: VALIDATION / CULTURAL ADAPTATION OF PROMIS  
8:39 – 10:00 am ET Moderator: *John Chaplin, PhD, University of Gothenburg*

### Abstract

- 133 Patient-Reported Outcomes Measurement Information System (PROMIS)- translation and cultural adaptation of Chinese version of severity of substance use, *Yan Rong*
- 147 PROMIS Pain interference scores and health-related quality of life in patients with end-stage kidney disease.  
*Istvan Mucsi, MD, PhD*
- 116 Dutch reference values for the PROMIS Scale v1.2 – Global Health. *Ellen Elsmann, PhD*
- 130 A comparison of the measurement properties of the PROMIS-Fatigue (MS) 8b against legacy fatigue questionnaires.  
*Paul Kamudoni, PhD, MSc*
- 127 Validation of PROMIS Measure of Itch Impact and Intensity in pediatric patients with atopic dermatitis.  
*Kathryn Jackson, MS*

9:00 - 11:00 am CT/ SYMPOSIUM: PROS IN VALUE-BASED HEALTHCARE  
10:00 – 12:00 pm ET Moderators: *Patricia Franklin, MD, MBA, MPH, Northwestern University*  
& *Matthias Rose, MD, PhD, Charité - University of Berlin*

**Implementing Value-Based Health Care in Europe**  
*Gregory Katz, PhD, PharmD, MBA, University of Paris*

**Harnessing Data: Enterprise Analytics and the Journey to Value-Based Healthcare**  
*Jacob Lippa, MPH, Providence St. Joseph Health*

**Title forthcoming**  
*Michelle Schreiber, MD, Deputy Director of CCSQ, Centers for Medicare & Medicaid Services*

11:00 - 11:30 pm CT/ WRAP UP  
12:00 – 12:30 pm ET

11:30 - 1:00 pm CT/  
12:30 - 2:00 pm ET

**ORAL PRESENTATIONS #4: PSYCHOMETRIC ADVANCES IN PRO MEASUREMENT**  
Moderator: *Aaron Kaat, PhD, Northwestern University*

**Abstract**

- 118 Monotonic polynomials to model flexible item response curves for PROMIS Physical Function. *Felix Fischer, PhD*
- 151 Increasing test efficiency in between-item multidimensional computerized adaptive testing by aligning item selection and stopping rules. *Muirne C. S. Paap, PhD*
- 115 Cross-walking PROMIS-29 to the Roland-Morris Disability Questionnaire and Oswestry Disability Index for chronic back pain. *Maria Orlando Edelen, PhD*
- 105 Methodology for selecting and evaluating items from PROMIS® Item Banks to develop novel short-form questionnaires. *Steven I. Blum, MBA*
- 144 Agreement Between Child and Caregiver Reports Across Five PROMIS Scales in a Pediatric Burn Population  
*Dagmar Amtmann, PhD*

1:00 - 2:00 pm CT/  
2:00 - 3:00 pm ET

**MEET THE EXPERTS #3 Zoom**

*Susan Bartlett, PhD And Clifton Bingham III, MD* - Expertise: Arthritis Care, Clinical Implementation Of PROMIS, Score Interpretation/Use In Clinical Decision Making And Patient Self-Management

*David Cella, PhD* - Expertise: Outcomes Research, Measurement, and PROMIS Applications

*Ron Hays, PhD* - Expertise: Measure Development, Psychometrics

*Jin-Shei Lai, PhD* - Expertise:

*Michelle Langer, PhD* - Expertise: Data Collection Tools, Measure Selection, Score Interpretation, Psychometrics, Measure Development

*Carole Tucker, PhD* - Expertise: Measure Development , Measure Selection, Score Interpretation

2:00 - 3:00 pm CT/  
3:00 - 4:00 pm ET

**POSTER SESSION #4**

**Abstract**

- 102 Developing a core set of mobility domains among individuals with acquired brain injury (ABI): Empowering the creation of core outcome sets using natural language processing (NLP)
- 103 Is there a difference in outcomes between patients treated with different implants for hammertoe correction?
- 104 Is there a difference in outcomes between patients who received a double or triple arthrodesis for hindfoot arthritis?
- 111 Reducing questionnaire burden when screening for depressive symptoms in patients with end-stage kidney disease
- 124 Do PROMIS measures correlate with fitness and satisfaction with social roles in participants of a university wellness clinic?
- 132 Evaluation of a patient-reported frailty tool in systemic lupus erythematosus
- 137 Design, development, and implementation of an integrated and automated patient reported outcome measure platform through a native electronic health record: Results from the first 2,000 ambulatory encounters and 8,400 questionnaires administered
- 139 Presence of preoperative clinical depression does not hinder recovery after anterior cruciate ligament reconstruction
- 140 Establishing and comparing reference pre-operative PROMIS scores in patients undergoing shoulder surgery
- 141 The role of the physician champion in promoting PROMIS CAT administration In a large group setting
- 143 Development and Validation of the Pediatric PROMIS Pain Quality Scale
- 152 Culture in Play: Spotlighting the Universal French Translation and Linguistic Validation of PROMIS Item Banks
- 153 Responsiveness of PROMIS Short Forms among Adult Cancer Patients
- 169 Evaluating Multiple Domains of Health in High School Athletes with Sport-Related Concussion