



PROMIS®  
HEALTH  
ORGANIZATION



## The 7th Annual PROMIS® International Conference

*Making It Personal:  
PROMIS for Individual  
Patient Management*

**October 17 - 19, 2021**

**Post-Conference Workshops:  
October 20 - 22**

### Program

#### **Chairs:**

Maria Orlando Edelen, MA, PhD  
Janel Hanmer, MD, PhD

#### **This conference PROMISes to be:**

- ☐ Not at all worthwhile
- ☐ A little bit worthwhile
- ☐ Somewhat worthwhile
- ☐ Very worthwhile
- ☒ Immensely worthwhile - not to be missed!
  - ☒ Learn what patient data tells us
  - ☒ Engage with colleagues
  - ☒ Explore clinical applications
  - ☒ Share research ideas
  - ☒ Delve into global health & PROMIS

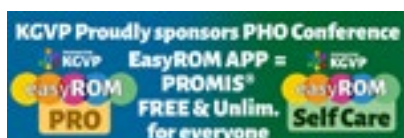
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# Epic

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## Mark Your 2022 Calendar for PHO

Visit [www.PROMISHealth.org](http://www.PROMISHealth.org) to learn more

Webinars are offered throughout the year on a range of clinical and research topics. Member Roundtables are offered quarterly as an opportunity for PHO members to engage in deeper conversation on specific topics and build connections within the PHO community.

### 3rd PROMIS Training Workshop

**May 2022**  
Montreal, Quebec Canada



### 8th PROMIS International Conference

**October 23-24, 2022**  
Prague, Czech Republic



# Welcome

Welcome to the 7th PROMIS® International Conference! Thank you for joining us. We gather together to learn, share, and engage with the ultimate goal of improving patient outcomes and the quality of healthcare. Our goal is to build bridges between research and clinical use, and this is reflected in the wide range of topics being offered.

Our conference theme, “Making It Personal: PROMIS for Individual Patient Management,” highlights the many ways that PROMIS is being used in clinical settings and the research that enables us to integrate the patient’s voice into healthcare delivery.

We are grateful to our Conference Planning Committee and Scientific Program Committee for their help with program development, abstract review, and participation in the program and to the many speakers, moderators, poster presenters, roundtable facilitators, mentors, and others who have contributed to make this program successful.

Many thanks to Julie Kay for her hard work and dedication in organizing this event, and to Zan Lofgren, our Executive Director.

Thank you for participating. We hope that you enjoy the conference!



## **Maria Orlando Edelen, MA, PhD**

Associate Director, Patient-Reported Outcomes, Value & Experience (PROVE) Center  
Brigham & Women's Hospital Department of Surgery  
Harvard Medical School  
and Senior Behavioral / Social Scientist, RAND Corporation



## **Janel Hanmer, MD, PhD**

Associate Professor of Medicine, General Internal Medicine  
Medical Director, UPMC Patient Reported Outcomes  
Assistant Dean of Medical Student Research

## Thank You to the Conference Committees

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Maria Orlando Edelen, MA, PhD  
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*Conference abstracts were published October 1st in the  
**Journal of Patient Reported Outcomes, Volume 5, Supplement 1.***



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## Mission

The mission of the PROMIS Health Organization is to improve health outcomes by developing, maintaining, improving, and encouraging the application of the Patient-Reported Outcomes Measurement Information System<sup>®</sup> in research and clinical practice.



PROMIS<sup>®</sup> and the Patient-Reported Outcomes Measurement Information System<sup>®</sup> are marks owned by the U.S. Department of Health and Human Services.

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## Join PHO

PHO members are researchers and clinicians from around the world who are using PROMIS to promote the voice of the patient.

Join us and become part of an inclusive community of colleagues dedicated to improving health outcomes by utilizing PROMIS in research, clinical care and quality improvement.

## Learn More

The PHO works in partnership with HealthMeasures. For more information on PROMIS and to access the measures, visit [www.healthmeasures.net](http://www.healthmeasures.net).

Assessment Center<sup>SM</sup> is an online data collection tool that enables researchers to create study specific websites for capturing participant data securely online.

To learn more, visit [www.assessmentcenter.net](http://www.assessmentcenter.net).

PHO e-News is published monthly on upcoming activities and information for the PROMIS community. Members are invited to submit news to Zan Lofgren, Executive Director, at [zan-lofgren@promishealth.org](mailto:zan-lofgren@promishealth.org).

## PHO COMMITTEES

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develops the annual education calendar of outreach programs on PROMIS to meet the needs of researchers and clinicians.

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Elizabeth Austin, MPH

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Michelle Langer, PhD

Alexander Obbarius, MD

Brocha Stern, OT, PhD

### The International Committee

works with the PROMIS National Centers (PNCs) and collaborates with the PHO Board of Directors to identify important and emerging international issues and coordinate and promote best practices to develop, translate, validate and utilize PROMIS instruments across countries.

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Susan Bartlett, PhD (Canada)

Jakob Bjørner, MD, PhD (Denmark)

Helena Correia, LIC (PHO language coordinator)

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Jose Valderas, MD, PhD (United Kingdom)

### The Standards Committee

updates and maintains PROMIS standards and reviews newly developed or modified PROMIS measures.

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Felix Fischer, PhD

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### International Outreach PROMIS National Centers

The PROMIS National Centers (PNCs) are part of the PHO and work around the world to optimize and harmonize the use of PROMIS measures and related resources for research, clinical care, and population monitoring.



For contact information and representatives of the PROMIS National Centers, visit [www.promishealth.org](http://www.promishealth.org) and click on the International tab.



## 2021 Scholarship Award Recipients

The Board of Directors is pleased to introduce the 2021 PHO Scholarship Award Winners. Now in its third year, this competitive program provides scholarships to trainees to participate in the PHO's annual international research conference. The Scholarship Awards Program is funded by generous donations from members.



**Tingting Cai** is a PhD student in the School of Nursing, Fudan University, in Shanghai, China. She is using PROMIS measures in research and clinical practice to promote cancer care for patients with breast cancer.



**Erik-Jan Haan**, a physical therapist, is a PhD student in the Research Group Lifestyle and Health, HU University of Applied Sciences, in Utrecht, The Netherlands. He is working on PROMIS implementation in primary care physical therapy to reduce the burden for both patients and PTs, and to improve comparability of outcomes.



**Chao Long**, a plastic and reconstructive surgery resident at Johns Hopkins Hospital in Baltimore, Maryland, is obtaining an MPH at the Bloomberg School of Public Health. Her clinical interests include hand and upper extremity surgery, while her research interests include developing and implementing metrics that support delivery of patient-centered care.



**Maria-Sophie Rothmund** is a MSc graduate student at the Medical University Innsbruck, in Innsbruck, Austria. She is working as a research associate, and within their research team they are extending their expertise on quality of life assessment in children with cancer, which is her main research interest.



**Sung keun Shim** defended his PhD thesis at Samsung Medical Center/ Sungkyunkwan University in Seoul, South Korea. He is working in validating psychometric properties of a Korean version of the PROMIS Physical Function Item Bank and establishing Korean general population norm scores, including DIF analysis for language. His specialty area is focused on patient-reported outcomes and psycho oncology.



**Vandana Sookdeo** is a post-doctoral fellow at the University of Miami, Sylvester Comprehensive Cancer Center in Miami, Florida. She leads the administrative and operational efforts for the My Wellness Check Initiative, which aims to understand the needs of cancer survivors and develop a comprehensive model of care that effectively meets their needs, reduces cancer burden, and enhances quality of life.



**Emma Stallwood** is a graduate student in clinical psychology at McMaster University in Toronto, Ontario Canada. Her interest is in high quality measurement in pediatric mental health research, and she aims to implement pediatric PROMIS questionnaires in pediatric mental health trials.

# Learn. Share

Notes:

[illegible]

# Sunday, October 17

All times listed are in CDT (Central Daylight Time)

9:00 - 9:30

## Welcome and PHO Update

Janel Hanmer, MD, PhD, University of Pittsburgh School of Medicine  
Maria Orlando Edelen, MA, PhD, Brigham & Women's Hospital, Harvard

9:30 - 11:00

## Plenary 1

### Using PROMIS in the Exam Room

Moderator: Judith Baumhauer, MD, MPH, University of Rochester

**Christopher Standaert, MD**, University of Pittsburgh

**Harry Kim, MD**, Texas Scottish Rite Hospital

**Benjamin Steinberg, MD, MHS, FACC, FHRS**, University of Utah

**Karin Fijnvandraat, MD, PhD**, Amsterdam University Medical Centers

11:00 - 12:00

## Roundtables

- PROMIS Domain Selection – Nan Rothrock, PhD
- Using PROMIS in Clinical Practice – Jeff Houck, PT, PhD
- Clinical Implementation (Technical) – Michelle Langer, PhD
- Score Interpretation (Benchmarking, Cut-Points/Decision Rules) – Amy Cizik, PhD, MPH
- Important Differences – Caroline Terwee, PhD
- Validating in Diverse Populations – Felix Fischer, PhD

12:00 - 12:15

## Break

12:15 - 1:15

## Concurrent Oral Session 1

### Clinical Research

Istvan Mucsi, MD, PhD, FRCPS, FASN

#### 08 Clinical sensitivity of PROMIS physical and mental quality of life domains to radiation therapy

Todd DeWees, PhD

#### 077 Neighborhood environment and health related quality of life for children with chronic conditions

Jin-Shei Lai, PhD, OTR/L

#### 043 Parkinson's Disease and medication management: The relationship of cognitive ability - perception vs performance

Mark Gudesblatt, MD

### Psychometrics

Aaron Kaat, PhD

#### 023 Are you better yet? Using plausible values to determine true change with PROMIS measures

Felix Fischer, PhD

#### 035 Psychometric properties and reference values of PROMIS Fatigue item bank in the Dutch general population

Caroline Terwee, PhD

#### 059 Aligning significant individual change with patient-perceived meaningful change on the PROMIS Physical Function 10a

John Devin Peipert, PhD

#### 075 Many better, many worse: mean PROMIS-29 Scores mask significant shifts during COVID-19 in RA

Susan Bartlett, PhD



# Monday, October 18

All times listed are in CDT (Central Daylight Time)

9:00 - 10:00 **Poster Walks**

10:00 - 11:00 **Concurrent Oral Session 2**

## Clinical Research

Susan Bartlett, PhD

**053 PROMIS Physical Function severity is associated with physical therapy recommendations in primary care**

Ryan Jacobson, PT, DPT, PCS

**054 PROMIS Measures in geriatric, cardiorespiratory, neurologic and orthopedic rehabilitation patient populations: a systematic review**

Rehab Alhasani, PT, PhD

**072 Patient factors associated with improvements in PROMIS Physical Function and Pain Interference after spine surgery**

Jacquelyn Pennings, PhD

**015 Associations between workers' compensation status and preoperative PROMIS Global Health scores in orthopedic patients**

Vinicius Antao, MD, MSc, PhD

## Clinical Tools and Implementation

Allison McIntyre, MPH

**05 A patient-centric PROMIS care continuum: tools to encourage patient and provider use of PROMIS data**

Stacy Schmitt, MBA

**010 Developing a multimedia patient-reported outcomes measure for low literacy patients**

Chao Long, MD, MP

**031 PROMIS translation platform – web application for supporting and supervising the translation methodology regime**

Wojciech Glinkowski, MD, PhD

**049 Integrating patient reported outcome measures into hospital quality initiatives**

Judith Baumhauer, MD, MPH

11:00 - 12:00 **Poster Walks**

12:00 - 12:30 **Break**

12:30 - 1:30 **Roundtables**

- Using PROMIS in Clinical Practice – Patricia Franklin, MD, MBA, MPH
- Clinical Implementation (Technical) – Michelle Langer, PhD
- Translations and Cultural Adaptations – Sara Ahmed, PT, PhD
- Using PROMIS in Clinical Trials – Danny Young-Afat, MD, PhD, MHSc
- Important Differences – Aaron Kaat, PhD
- Psychometric Advances – Maria Orlando Edelen, MA, PhD

1:30 - 2:30

## Plenary 2

### Measuring Changes in Individuals

Moderator: Maria Orlando Edelen, MA, PhD, Brigham & Women's Hospital, Harvard

**Ron Hays, PhD**, University of California Los Angeles

2:30 - 4:00 **Happy Hour**

# Tuesday, October 19

All times listed are in CDT (Central Daylight Time)

## 10:00 - 11:00 **Plenary 3**

### **PROMIS Use in Clinical Pathways**

Moderator: Patricia Franklin, MD, MBA, MPH, Northwestern University

**Saniya Bhusari, BDS, MsHI**, University of Utah Health

**Jin-Shei Lai, PhD, OTR/L**, Northwestern University

**Frank Penedo, PhD**, University of Miami

## 11:00 - 12:00 **Poster Walks**

## 12:00 - 12:30 **Break**

## 12:30 - 1:30 **Roundtables**

- Score Interpretation (Benchmarking, Cut-Points/Decision Rules) – John Devin Peipert, PhD
- Using PROMIS for Quality Measurement – Jacob Lippa, MPH
- Using PROMIS in Clinical Trials – Amanda Spraggs-Hughes, PhD
- Validating in Diverse Populations – Caroline Terwee, PhD
- Psychometric Advances - Richard Gershon, PhD
- Pediatrics -Shana Jacobs, MD

## 1:30 - 2:30 **Concurrent Oral Session 3**

### **Clinical Tools and Implementation**

Michelle Langer, PhD

#### **051 Obtaining reliable change scores in the postoperative period: A comprehensive investigation of PROMIS pain items**

Alexander Obbarius, MD

#### **058 Turning data into information, information into insight and insight into action: data request system development**

Allison McIntyre, MPH

#### **061 Implementation of PROMIS Computerized Adaptive Tests in Systemic Lupus Erythematosus (SLE) clinical care**

Shanthini Kasturi, MD

#### **071 Implementation of PROMIS scales in a cerebrovascular clinic - experience after 10 years**

Irene Katzan, MD, MS

### **Psychometrics**

Felix Fischer, PhD

#### **040 PROMIS Global Health: potential utility as a screener to trigger construct-specific PROs in clinical care**

Brittany Lapin, PhD, MPH

#### **037 Iterative testing of alternate stopping rules for the NIH Toolbox Emotion Battery Pediatric Item Banks**

Saki Amagai, BA

#### **069 Validation of the PROMIS physical function computer adaptive test among liver transplant recipients**

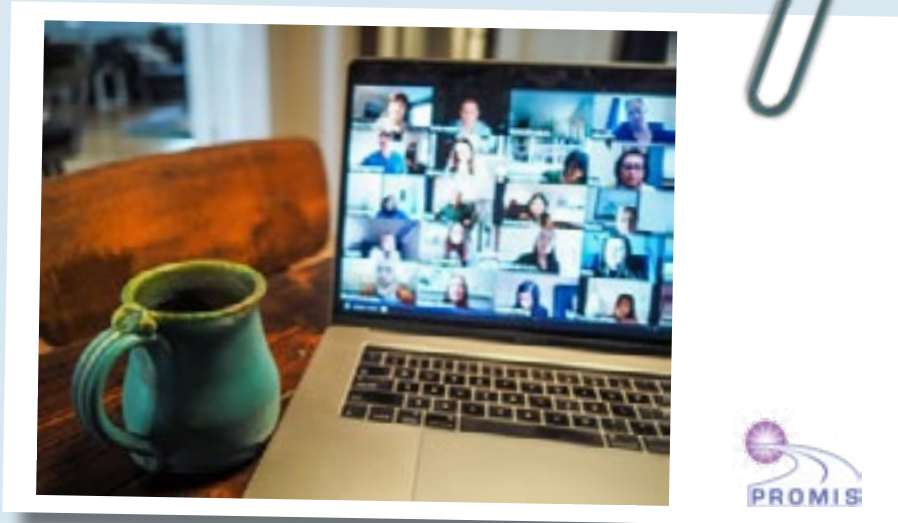
Evan Tang, BScN, MD Candidate

#### **038 Optimizing the efficiency of computerized adaptive tests using real data: a machine learning approach**

Michiel Luijten, MSc

## 2:30 - 2:45 **Wrap Up**

# Learn. Share. Engage.



## Post-Conference Workshops

**All times listed are in CDT (Central Daylight Time)**

**Wednesday, October 20**

**9:00 - 10:00 am**

**Cross-Cultural Use of PROMIS: Translatability, Translation and Cultural Adaptation**

Instructor: Helena Correia, Lic

**Thursday, October 21**

**9:00 - 10:00 am**

**Introduction to IRT, CATs, and PROMIS**

Instructor: Richard Gershon, PhD

**Friday, October 22**

**9:00 - 10:00 am**

**Implementing PROMIS in Clinical Practice**

Instructor: Michelle Langer, PhD



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# Poster Walks

**Meet the Group Leaders at First Poster listed in the Session on Zoom**

**Monday, Oct. 18 9:00 - 10:00 am CDT**

## **Poster Number and Abstract Title**

### **Poster Walk 1: Clinical Research**

**Leader: Susan Bartlett, PhD**

- P13 Health-related outcomes differ among breast cancer patients with distinct patterns of symptom cluster
- P18 Presenting PROMIS scores predict treatment selection for De Quervain's Tenosynovitis
- P27 Impact of COVID-19 Infection on health-related quality of life: differences between Latinos and non-Latinos
- P34 Impact of COVID-19/social distancing on PROMIS pediatric peer relationship T-Scores in children with Legg-Calve-Perthes Disease
- P36 Femoral Head Deformity Correlates with Physical and Mental Health Measures in Healed Stage Legg-Calve-Perthes Disease

### **Poster Walk 2: Psychometrics**

**Leader: Maria Orlando Edelen, PhD**

- P6 Psychometric evaluation of the PROMIS Social Function Short Forms in Chinese patients with breast cancer
- P17 Chinese version of PROMIS Pediatric Profile 25: validity and reliability assessment among children with cancer
- P20 Feasibility, measurement properties and relevance of PROMIS item banks in adults with haemophilia – preliminary results
- P24 Differential item functioning of PROMIS physical functioning ceiling items across Argentina, Germany, and the U.S.
- P28 PROMIS validation in Myasthenia Gravis population
- P69 Identification of pain profiles in children and adolescents with cancer

### **Poster Walk 3: Methods Development and Systematic Reviews**

**Leader: Dave Cella, PhD**

- P11 Patient interpretations vary for PROMIS (Patient-Reported Outcomes Measurement Information System) upper extremity questions
- P29 Are pediatric PROMIS general health scales ready for use in routine care? A systematic review
- P31 PROMIS translation platform – web application for supporting and supervising the translation methodology regime
- P37 Iterative testing of alternate stopping rules for the NIH Toolbox Emotion Battery Pediatric Item Banks
- P54 PROMIS measures in geriatric, cardiorespiratory, neurologic and orthopedic rehabilitation patient populations: a systematic review
- P55 Common patient reported outcomes within the FDA Voice of the Patient Reports

# Poster Walks continued

Meet the Group Leaders at First Poster listed in the Session on Zoom

**Monday, Oct.18 11:00 am - 12:00 pm CDT**

## **Poster Number and Abstract Title**

### **Poster Walk 4: Translation and Cross-Cultural Validation**

**Leader: Jordi Alonso, PhD**

- P19 Reliability, validity of PROMIS® Social Isolation short form in Chinese family caregivers of cancer patients
- P22 The use of pediatric PROMIS® itembanks in Dutch boys with haemophilia
- P25 Targeting conceptual equivalence in the Norwegian linguistic validation of Pediatric and Parent Proxy PROMIS items
- P26 Translation and linguistic validation of Dutch-Flemish PROMIS Item Banks: Cognitive Function, Itch-Interference, and Self-Efficacy
- P41 Validity and reproducibility of psychosocial questionnaires in French-speaking university students
- P68 Translation and linguistic validation of the PROMIS-29+2 Profile (PROPr) in seven African languages

### **Poster Walk 5: Clinical implementation**

**Leader Jin-Shei Lai, PhD**

- P56 Implementation of PROMIS-CAT Pediatric Measures in outpatient behavioral health: adaptations and challenges during a pandemic
- P57 Patient and caregiver satisfaction with PROMIS-CAT Pediatric Measures in an outpatient behavioral health clinic
- P60 Implementing PROMIS Computerized Adaptive Tests in Systemic Lupus Erythematosus clinical care: patient and physician perspectives
- P65 Patient and family caregiver perspectives on self-assessment cognitive screening in primary care

### **Poster Walk 6: General Research Applications**

**Leader John Chaplin, PhD**

- P7 Social relationships and its predictive factors in Chinese patients with breast cancer: A cross-sectional study
- P21 PROMIS Provides a Broader Overview of HRQL than the ESSPRI in Sjogren's Syndrome
- P62 Acceptability of PROMIS in Immune-Mediated Thrombotic Thrombocytopenic Purpura (iTTP): A Mixed Methods Study
- P74 Trends in PROMS-29 throughout COVID-19 in the Canadian Early Arthritis Cohort (CATCH)
- P78 PROMIS Mental Health and Physical Health summary scores in patients on kidney replacement therapies

# Poster Walks continued

## Meet the Group Leaders at First Poster listed in the Session on Zoom

**Tuesday, Oct. 19 11:00 am - 12:00 pm CDT**

### **Poster Number and Abstract Title**

#### **Poster Walk 7: Neurology and Cognition**

**Leader: Cindy Nowinski, MD**

- P30 Effects of age and cognitive impairment on PROMIS-57 Profile responses
- P44 Parkinson's Disease psychosocial illness impact: relation to patient reported anxiety, depression & sleep disturbance
- P45 Relationship of physical ability in Multiple Sclerosis to patient reported meaning & purpose
- P46 Multiple Sclerosis: the relationship of cognitive impairment and self-efficacy of medication management
- P64 Association of PROMIS-Cognitive Function Scores with the Montreal Cognitive Assessment Test in a clinical sample
- P76 An investigation of the physical disability experienced by people with Multiple Sclerosis

#### **Poster Walk 8: Measurement Advances**

**Leader: Michiel A. J. Luijten, MSc**

- P39 Advances in measuring mental health in early childhood (1-5 years): The PROMIS early childhood measures
- P42 Utility of interpretable general additive models in predicting PROMIS Global Health scores in orthopedic patients
- P50 Test-retest reliability and responsiveness of three Dutch-Flemish PROMIS-CATs in physical therapy patients in primary care
- P63 Validation of PROMIS physical function item bank (CAT) in patients on kidney replacement therapies
- P70 Exploring the relationship between paediatric PROMIS profile-25 and a Kidscreen utility-mapping algorithm

#### **Poster Walk 9: Orthopedics, Physical Therapy, Pain**

**Leader: Sara Ahmed, PhD**

- P16 Unpacking the Impact of chronic pain as measured by the Impact Stratification Score
- P32 Measuring sleep disturbance with common measures of functioning: Comparing the ODI, NDI, and PROMIS®-29
- P67 Are biopsychosocial PROMIS measures associated with risk of persistent symptoms in outpatient physical therapy?
- P73 Influence of goal attainment scaling on cognitive-behavioral based physical therapy outcomes after lumbar spine surgery



Notes:

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# Abstracts

## P1\* Intentionally omitted

### P2 Patient reported measures—driving system transformation through measuring what matters to our patients in New South Wales

Melissa Tinsley

Agency for Clinical Innovation, Sydney, Australia

Correspondence: Melissa Tinsley

melissa.tinsley@health.nsw.gov.au

Journal of Patient-Reported Outcomes 5(1): P2

**Objective:** NSW health has embarked on a Value Based Healthcare approach. A key enabler of this

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SMS or tablet in face to face), data is available in real-time for clinicians and care teams to review for shared decision making, care planning, treatment and interventions.

The PRM Program has brought people, process and technology together for a robust change management approach and transforming culture and behaviour to become truly person centred.

This presentation will highlight the key success factors and how we overcame challenges to achieve large system transformation, and describing how the data is used at the individual, service and system level.

**Results:** The PRM Program, including our technology platform continues to be implemented across NSW with high engagement and success. The data collected from PROMIS 29 is used at the individual, service and system level.

Leveraging off the success of our initial implementation we are continuing to co-design and expand our program, including culturally and linguistically diverse patient populations. The next phase of our program will include the translated PROMIS 29 surveys so consumers and carers can answer their surveys in their preferred language for greater inclusivity.

**Conclusions:** In conclusion, the NSW Health PRM Program, is the largest program collecting and using PRMs, including PROMIS 29 in Australia; and perhaps even broader—having

far reaching coverage across patient cohorts/ conditions and settings.

The e-enablement of technology and presenting data back in a useful, meaningful and relevant context for healthcare teams in real-time has been one of the main success factors of the program.

## P3\* Intentionally omitted

### P4 Relationship between depression and social function among patients with cerebral infarction based on patient-reported outcomes

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**All abstracts are accessible at this link:**  
**[Journal of Patient Reported Outcomes, Volume 5, Supplement 1](#)**

Journal of Patient-Reported Outcomes 5(1): P4.

**Objective:** To explore the relationship between depression and social function, and mediating effect of cognitive function on the relationship between the depression and social function among patients with cerebral infarction.

**Methods:** A convenience sampling method was used to investigate 156 cerebral infarction patients undergoing conservative treatment 8 weeks after discharge. The general information questionnaire, PROMIS-depression short form, PROMIS-cognitive function short form, PROMIS-ability to participate in social roles and activities short form were adopted from January 2020 to January 2021.

**Results:** For all the participants, the mean scores of PROMIS-depression short form was ( $14.3 \pm 6.6$ ), the mean score of PROMIS-cognitive function short form was ( $15.6 \pm 4.3$ ), and the mean score of PROMIS-ability to participate in social roles and activities short form was ( $14.4 \pm 5.8$ ). The results of correlation analysis revealed that the score of PROMIS-depression short form were negatively correlated with score of PROMIS-cognitive function short form ( $P < 0.01$ ) and score of PROMIS-ability to participate in social roles and activities short form ( $P < 0.01$ ). The score of PROMIS-cognitive function short form were positively correlated with score of PROMIS-ability to participate in social roles and activities short form ( $P < 0.01$ ). The analysis results by

Bias Corrected Bootstrap showed that cognitive function played a partial mediation effect between the depression and the ability to participate in social roles and activities [(a × b = - 0.165, 95% CI = - 0.294 ~ - 0.068)].

**Conclusions:** Patients with cerebral infarction had poor ability to participate in social roles and activities. Depression can directly influence the ability to participate in social roles and activities and indirectly influence the ability to participate in social roles and activities through cognitive function.

## O5 A patient-centric PROMIS care continuum for spine providers

Stacy Schmitt<sup>1</sup>, Ford<sup>2</sup>, Hardey<sup>3</sup>, Maus<sup>4</sup>

<sup>1</sup>Mayo Clinic Multidisciplinary Spine Center, Rochester, MN, USA. <sup>2</sup>Mayo Clinic Department of Anesthesiology, Rochester, MN, USA. <sup>3</sup>Mayo Clinic Department of Family Practice, Rochester, MN, USA. <sup>4</sup>Mayo Clinic Department of Radiology, Rochester, MN, USA. <sup>5</sup>Mayo Clinic Department of General Internal M, Rochester, MN, USA

Correspondence: Stacy Schmitt  
schmitt.stacy@mayo.edu  
Journal of Patient-Reported Outcomes 5(1): O5.

**Objective:** Building and promoting an individualized program is essential for the collection and clinical use of patient reported outcomes (PROs). The objective is to describe the identification and deployment of individualized collection tools the Mayo Clinic Spine Care Continuum administers to achieve PRO collection goals, and the visualization tools that maximize clinical utility for providers and patients throughout the five-year PRO cadence.

**Methods:** Collaborative efforts between 14 Mayo spine care provider specialties (> 1,000 providers) identified programmatic deployment criteria to collect PROs on meaningful and complete patient populations. Specialty stakeholder input was used to build patient-centric and provider-friendly visualizations within the Epic EHR.

**Results:** Consensus was achieved among Spine provider specialties on appropriate deployment criteria (i.e., triage protocols, diagnoses, visit types, procedure codes and

surgical preference card IDs) for baseline PRO collection, series cadence, and PROMIS CAT domains. Standardization of criteria across all specialties was sought, while still allowing necessary customization for procedural specialties to encompass pre-authorization and regulatory needs. Metrics and goals for baseline and subsequent cadence collection were identified: PRO collection modes integrated within the Epic EHR targeted a baseline collection of 95%; patient-centric collection modes were developed to achieve a subsequent cadence collection of 80%. Customized provider visualizations within the Epic EHR utilized Synopsis and Print Groups, noting anchor events that include

**All abstracts are accessible at this link:**

**[Journal of Patient Reported Outcomes, Volume 5, Supplement 1](#)**

Ongoing education and awareness interactions are essential practice support tools to ensure understanding and execution of collection methodology and optimal use of customized, patient-centric PROMIS data.

**Conclusions:** A patient-centric, programmatic deployment system was created within the Epic EHR based on individualized criteria within meaningful populations throughout the Spine Care Continuum. Multiple response modes are necessary to meet program metrics and will be presented at multiple cadence intervals. Additionally, customized visualizations for individualized patient/provider interactions within the Epic EHR will be displayed. Analytics used to measure collection rates and assist their optimization will be presented and discussed.

## P6 Psychometric evaluation of the PROMIS Social Function Short Forms in Chinese patients with breast cancer

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Journal of Patient-Reported Outcomes 5(1): P6.

**Objective:** A valid assessment of social function is important for the follow-up of patients with

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