

International Outcome Measurement Conference

IOMC 2015 Conference Schedule

April 21 and 22, 2015

Hampton Inn by Hilton, 160 E. Huron St., Chicago, IL

Day 1

- 7:30 am – 8:00 am **Registration - Continental Breakfast** – 7th Floor
- 8:00 am – 8:15 am **Welcome** (Pennsylvania)
- 8:15 am – 9:45 am **Symposium 1**– Plenary session (Pennsylvania)
Health care outcome metrology: *“Build it and they will come”* (Part I)
William P. Fisher, Jr. - Building the field of dreams: The unrealized scientific and economic power of health care outcome metrology
Jeremy Hobart - Alternate paths to successful clinical outcome measurement
Stefan Cano - Individual vs group level measurement: Implications for health care outcome economics
Laurie Burke - On systematically measuring the right things well enough vs locally measuring the wrong things really well
William P. Fisher, Jr. - Moderator
- 9:45 am – 10:00 am **Break**
- 10:00 am – 11:00 am **Paper session 2A** (Pennsylvania)
Nikolaus Bezruczko, Teresa Stanley, Maureen Battle, Cynthia Latty, and Shu-Pi Chen - Pathological consequences of evaluating simulation caregiver training with nonlinear, ordinal ratings: Measuring caregiver response to tracheostomy emergencies
Stefanie A. Wind - Evaluating the quality of multiple-choice assessments with Mokken scale analysis
Skye Barbic - Moderator
- Paper session 2B** (Independence)
Alexandra Rouquette, Jean-Benoit Hardouin, and Joël Coste - Differential Item Functioning (DIF) and subsequent bias in group comparisons using a multi-item scale: A simulation study
James J. Thompson - What are you measuring? Dimensionality and reliability analysis of ability and speed in medical school didactic examinations
Richard Smith - Moderator
- 11:00 am – 11:15 am **Break**
- 11:15 am – 12:15 pm **Paper session 3A** (Pennsylvania)
Chih-Ying Li and Craig A. Velozo - Using Rasch analysis to generate Medicare G-Code Modifiers and develop a treatment framework in the attention domain
Craig Velozo , Leigh Lehman, Ickpyo Hong, and Chih-Ying Li - Use of Rasch analysis to generate G-Code Modifiers for CMS outpatient reimbursement
Nikolaus Bezruczko - Moderator

Paper session 3B (Independence)

Matthew W. Grady, Haiqin Chen, Chien-Lin Yang, and David Waldschmidt -
Comparing the Rasch and Rasch testlet model for a health care licensure
examination

Haiqin Chen, Matthew W. Grady, Chien-Lin Yang, and David Waldschmidt -
Application of the multilevel Rasch testlet model for dual local
dependence to empirical data in the health care field

Michael R. Peabody - Moderator

12:15 pm – 1:30 pm

Lunch Break

1:30 pm – 3:00 pm

Paper session 4A (Pennsylvania)

Ngadiman Djaja, Monika Janda, Catherine Olsen, and David Whiteman - Diagnostic
discrimination of the Skin Cancer Risk (SCR) scale: Application of item response
theory

Sherri L. LaVela, Sara Locatelli, Carol Kostovich, and Megan Gosch - Developing the
Respirator Comfort, Wearing Experience, and Function Instrument using Rasch
partial credit model analysis

Benjamin Fox - The application of Rasch measurement theory to dementia research
Stefan Cano - Moderator

Paper session 4B (Independence)

Nick Marosszeky - Not a fan of Fan (1998)! Item response theory and classical test
theory: An empirical comparison of their item / person statistics

Peter Hagell and Albert Westergren - Sample size and statistical conclusions from tests
of fit to the Rasch measurement model according to the RUMM2030 program

Robert Furter - Test speededness: Collecting evidence to support form length decisions

Richard Smith - Moderator

3:00 pm – 3:30 pm

Break

3:30 pm – 5:00 pm

Paper session 5A1 (Pennsylvania)

Melissa Hofmann - Assessment of acute trauma exposure response for FIRE-EMS
personnel

Jane Summer and William P. Fisher, Jr. - Ontological midwifery of caring in nursing:
Practical measures for management

Jonathan Comins - Forward-backward translation vs. dual-panel translation methods for
adaption of patient-reported outcome measures - how can we determine which
is best?

Peter Hagell - Moderator

Paper session 5A2 (Independence)

Brett Berg, Karen Adler, and Anne G. Fisher - Constructing a health outcome measure of
occupational experience: An application of Rasch measurement methods

Chris Wera - Development of a brief screening measure for depression and problem
drinking

Ickpyo Hong, Annie N. Simpson, Chih-Ying Li, and Craig A. Velozo - Development of an
upper extremity function measurement model

Craig Velozo - Moderator

5:00 pm

End of Day 1

6:30 pm – End

Optional Conference Dinner

Dao Thai Restaurant
230 E. Ohio St., Chicago, IL
Menu located at: http://www.daothai.com/pdf/Dao_menu_dinner140721.pdf

Day 2

- 7:30 am – 8:00 am **Registration - Continental Breakfast** – 7th Floor
- 8:00 am – 8:05 am **Welcome** (Pennsylvania)
- 8:05 am – 9:45 am **Symposium 1 (continued)** – Plenary session (Pennsylvania)
Health care outcome metrology: *“Build it and they will come”* (Part II)
- Jack Stenner - Reading measurement in education as a model metrology network for health care
Rob Cavanagh - An unmodern perspective on the role of educational measurement in globalization
Robert Massof - Lions Low Vision Rehabilitation Network (LOVRNET): A system that uses outcome measures for quality improvement through continuous professional
Maureen K. Powers, William P. Fisher, Jr., Robert Massof, and Mark Wilson - Integrating visual symptoms and visual skills to model and measure functional binocular vision
William P. Fisher, Jr. - Moderator
- 9:45 am – 10:00 am **Break**
- 10:00 am – 11:00 am **Paper session 7A** (Pennsylvania)
Myriam Blanchin, Elodie De Bock, Gildas Kubis, Tanguy Le Néel, Véronique Sébille, and Jean-Benoit Hardouin - Rasch and CTT-based approaches for joint analysis of group and time effects of longitudinal Patient Reported Outcomes: impact of informative and non-informative missing data
Véronique Sébille, Myriam Blanchin, Alice Guilleux, Mohand-Larbi Feddag, and Jean-Benoit Hardouin - Methods of power and sample size determination of clinical studies based on Rasch measurement
Jeremy Hobart - Moderator
- Paper session 7B** (Independence)
Michael R. Peabody, Kelly D. Bradley, and Melba Custer - Assessing the validity of a continuum-of-care survey: A Rasch measurement approach
Sarah Thomas, Karen M. Schmidt, Monica Erbacher, and Cindy Bergeman - Sliding scales and changing rulers: Anchoring the longitudinal measurement of positive affect
Nikolaus Bezruczko - Moderator
- 11:00 am – 11:15 am **Break**
- 11:15 am – 12:15 pm **Paper session 8A** (Pennsylvania)
Carol T. Kostovich, Beyza Aksu Dünya, Lee A. Schmidt, and Eileen G. Collins - A Rasch rating scale analysis of the Presence of Nursing Scale-RN
Christophe Chénier, Gilles Raïche, Céline Gélinas, Nadine Talbot, and Bianca Carignan - Rasch analysis of the Critical-Care Pain Observation Tool (CPOT)
Skye Barbic - Moderator

Paper session 8B (Independence)

Trudy Mallinson - Addressing response dependence in repeated measures of rehabilitation outcomes in the unidimensional Rasch model

Robert Massof and Judith Goldstein - The role of item filtering in measures of low vision rehabilitation outcomes

Richard Smith - Moderator

12:15 pm – 1:30 pm

Lunch Break

1:30 pm – 3:00 pm

Paper session 9A (Pennsylvania)

Deborah M. Rooney, Bruce L. Tai, Oren Sagher, Albert J. Shih, and Luis Savastano - Validation of performance measures from a Novel Ventriculostomy Simulator using *Standards* framework

Thomas Salzberger and Stefan Cano - Investigating a lack of discrimination between two adjacent response categories in the Rasch model for ordered categories in health measurement

Curt Hagquist - Do 7 items provide as good measurement as 13 items? A comparison of a short and long version of Kidscreen

Peter Hagell - Moderator

Paper session 9B (Independence)

Paula Petry and William Fisher - Applying published instrument development research in a workshop evaluation: Practical use of Rasch-calibrated instruments with small samples

Ying Du - Investigating knowledge growth during pediatric residency training using Rasch and linear mixed models

Trudy Mallinson - Moderator

3:00 pm – 3:15 pm

Break

3:15 pm – 4:45 pm

Symposium 3 – Plenary session (Pennsylvania)

The relationship between measurement models and scale properties

Gunnar Grimby - On the treatment of ordinal scale data in rehabilitation medicine research

Nikolaus Bezruczko - Standards and practices to guide health outcomes measurement: A strategy to avoid measurement malpractice

Richard Smith, Lee McKenna, and Christie Plackner - A comparison of the information available in various measurement models

Richard Smith - Moderator

4:45 pm – 5:00 pm

Closing Remarks

5:00 pm

End of Day 2

All symposia will be plenary sessions. All paper sessions will be concurrent sessions, A and B in adjacent rooms.

All **A** paper sessions highlight clinical presentations and all **B** paper sessions highlight methodological issues.

Paper presentations will allow 20 minutes per presentation, with 20-30 minutes for discussion depending on the number of presentations.