

Evaluating Outcomes in the 21st Century

10/10/2013, 1:20pm – 2:50 pm

Grand Saguario Ballroom, JW Marriott Desert Ridge

Presenters

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Outline

- 1) Introduction – Mark Vrahas, MD
 - a) Patient reported outcomes in orthopaedic trauma
 - i) Great success
 - ii) Weaknesses
 - iii) Potential improvements
 - b) NIH PROMIS
 - i) What is it?
 - ii) Potential importance in orthopaedic trauma
- 2) NIH PROMIS: The details – Nan Rothrock, PhD
 - a) Why was it needed
 - i) Problems with traditional PRO's
 - b) Measures
 - i) Self-reported health domains addressed
 - ii) Development
 - iii) Validation and translation
- 3) Item Response Theory and Computer Adaptive Testing – Richard Gershon, PhD
 - a) A paradigm shift
 - i) Classical test theory versus item response theory
 - b) Computer Adaptive Testing
 - i) How it works
 - ii) Example: PROMIS Physical Function CAT
- 4) Introduction to Assessment Center – Nan Rothrock, PhD
 - a) Using Assessment center for clinical research
 - i) Overview of options and potential
 - ii) Gaining access
 - b) AO Patient Reported Outcomes Center
- 5) Early experience using PROMIS tools with Orthopaedic Patients – Thomas Higgins, MD
 - a) Patient acceptance
 - b) Ease of use
 - c) Value in clinical management
 - d) Current weaknesses
- 6) Wrap up – Mark Vrahas, MD
 - a) questions and discussion

Resources

PROMIS

- Website: www.nihpromis.org
- PROsetta Stone: www.prosettastone.org
- Use in orthopaedics:
 - Hung, M, Clegg, DO, Greene, T, & Saltzman, CL. (2011). Evaluation of the PROMIS physical function item bank in orthopaedic patients. *Journal of Orthopaedic Research*, 29: pp 947-953.

Assessment Center

- Website: www.assessmentcenter.net

Item Response Theory and Computer Adaptive Testing

- Video tutorial: <http://www.nihpromis.org/about/instructional>
- Use in orthopaedics:
 - Hung, M, Nickisch, F, Beals, TC, Green, T, Clegg, DO, & Saltzman, C. (2012). New paradigm for patient-reported outcomes assessment in foot & ankle research: Computerized adaptive testing. *Foot & Ankle International*, 33: pp 621-626.