# Evaluating Outcomes in the 21st Century

10/10/2013, 1:20pm – 2:50 pm  
Grand Saguaro Ballroom, JW Marriott Desert Ridge

## Presenters

| Richard Gershon, PhD  
Dept Med Social Sciences  
Northwestern University  
Feinberg School of Med  
(312) 503-3601  
Gershon@northwestern.edu | Thomas Higgins, MD  
Dept Orthopaedic Surgery  
University of Utah  
(801) 587-7109  
Thomas.higgins@hsc.utah.edu | Nan Rothrock, PhD  
Dept Med Social Sciences  
Northwestern University  
Feinberg School of Med  
(312) 503-3514  
n-rothrock@northwestern.edu | Mark Vrahas, MD  
Harvard Orthopaedic Trauma  
Mass General Hospital  
(617) 726-2943  
mvrahas@partners.org |

## 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](http://www.nihpromis.org)
- PROsetta Stone: [www.prosettastone.org](http://www.prosettastone.org)
- Use in orthopaedics:

### Assessment Center
- Website: [www.assessmentcenter.net](http://www.assessmentcenter.net)

### Item Response Theory and Computer Adaptive Testing
- Video tutorial: [http://www.nihpromis.org/about/instructional](http://www.nihpromis.org/about/instructional)
- Use in orthopaedics: