

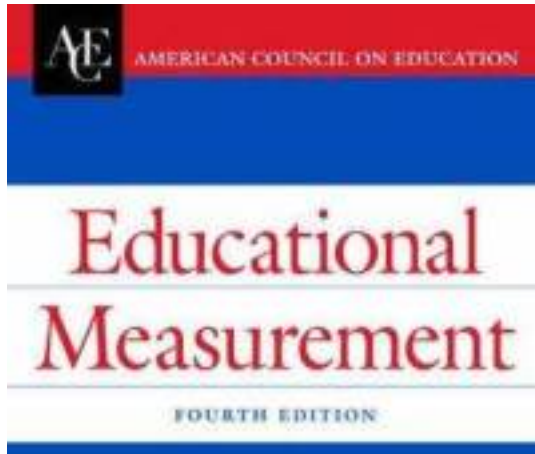


# **Workplace-based Assessment**

## **Expanding the Validity Argument**

**Marjan Govaerts**  
**Cees van der Vleuten**

# Validity inquiry in work-based assessment



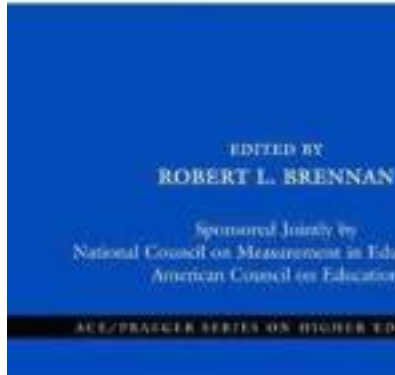
Ad  
DC

O

### 3. RELIABILITY AND VALIDITY OF A NEW MULTISOURCE FEEDBACK EVALUATION TOOL (PEDI360) FOR RESIDENTS

Su-Ting T. Li, MD, MPH, University of California Davis, Sacramento, CA,

T  
in  
a  
U



SAEM  
Academic Emergency Medicine  
Official Journal of the Society for Academic Emergency Medicine

## RESIDENCY ADMINISTRATION

# Synchronous Collection of Multisource Feedback Evaluations Does Not Increase Inter-rater Reliability

Gregory Garra, DO, and Henry Thode, PhD

### Abstract

**Objectives:** Most multisource feedback (MSF) evaluations are performed asynchronously, with raters reflecting on the subject's behavior. Numerous studies have demonstrated poor inter-rater reliability of MSF. This may be due to cognitive biases that are inherent in such a process. We sought to determine if

# Theoretical assumptions

---

Generalizable explanations and predictions; true score; context-free criteria (e.g. accuracy, consistency)

**Theories of learning, competence, performance interpretation**

Assessment design and evaluation (validation)

# Theoretical assumptions

---

- ▶ **Learning (professional development)**
  - ▶ Deterministic, linear process
  - ▶ Common trajectories; to be specified in advance
- ▶ **Competence**
  - ▶ Fixed, permanent and latent trait / ability
  - ▶ Transferable from one context to another
- ▶ **Performance interpretation**
  - ▶ Objectifiable: single true score
  - ▶ Assessors: passive interchangeable measurement instruments

## ▶ LEARNING

- ▶ **Inherently situated, non-linear**
  - ▶ Emerges through interaction and participation
  - ▶ Shaped by unique experiences in a specific context, and the meaning attached to these experiences
- ▶ **Transformative, expansive, creative**
  - ▶ Ability to create *new* knowledge
  - ▶ Unpredictable, unanticipated
- ▶ **Collaborative**
  - ▶ No longer located within individual
  - ▶ Competence is collective

## Challenging assumptions - I

Predictable and decidable systems of workplace learning?

Predictability and uniformity in learning trajectories?

Competence: individual versus team?

## ▶ COMPETENCE

- ▶ Changes over time
- ▶ Is not portable, transferable from one context to another

*Talent won't transfer unless it maps to the new environment*

- ▶ Cannot be defined independently of its context

### Challenging assumptions - 2

Performance variability is measurement error?

Competence is trait?

- ▶ **PERFORMANCE INTERPRETATION**
  - ▶ Influenced by social structures in assessment task and its context
  - ▶ According to the perspectives and values of an individual assessor
  - ▶ Influenced by his/her experiences
- ▶ **Assessors: active information processors, social perceivers**
- ▶ **Multiple true scores**

## Challenging assumptions - 3

True level of performance?

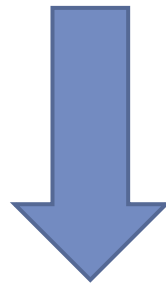
Absolute, objective truth?

Single true score?

# Implications for work-based assessment

---

- ▶ Socially situated interpretive act
- ▶ Assessment as *qualitative inquiry*
  - ▶ Addressing outcome as well as process
  - ▶ Understanding what, how, when and why
  - ▶ Rich *situated* accounts of learning, performance and assessor judgments



- ▶ CONSTRUCTIVIST-INTERPRETIVIST ASSESSMENT APPROACHES



# Implications for assessment design

---

- ▶ Dialogue; learner engagement
  - ▶ Documentation of learning context and process
- ▶ Elaborate written statements about performance in context, by expert-judges
- ▶ Broad sampling to gain in-depth understanding of performance repertoire
- ▶ All stakeholders articulate and document performance interpretations, underlying values and assumptions
- ▶ Open deliberative and critical dialogue until coherent interpretation can be accounted for

# Implications for validity theory/inquiry

Quality principle	Qualitative approach	Techniques / strategies
Truth value of evidence Internal validity	Credibility	Prolonged engagement; multiple sources and methods; triangulation; extended sampling over time/contexts; member checking (trainee engagement) peer examination (critical dialogue); reflexivity
Applicability of evidence External validity	Transferability	Thick, rich (dense) description; explain sampling strategy; time sampling
Consistency of evidence Reliability	Dependability	Stepwise replication; iterative data collection; saturation; thick description of methods and decision trail; triangulation; peer examination; explainable variability
Neutrality of evidence Objectivity	Confirmability	Audit trail; external audit; seek for disconfirming evidence; critical dialogue; reflexivity (articulate role, values,..)



Thank you!

[marjan.govaerts@maastrichtuniversity.nl](mailto:marjan.govaerts@maastrichtuniversity.nl)