Direct Observation in CBME: Importance and Challenges

Eric Holmboe Jennifer Kogan

Portions of this work have been supported by the American Board of Internal Medicine





Direct Observation Research Team

Bill lobst Lisa Conforti Siddhartha Reddy Kate Ross Sarah Hood **Elizabeth Bernabeo** Krista Hirshmann Steve Durning Lorna Lynn Rebecca Baranowski

<u>Thanks to</u> Drexel Simulation Center

Perelman School of Medicine Simulation Center

Faculty & residents who participated in research studies





Watch the following clinical encounter between a internal medicine resident and patient

Task 1: Complete the questions on the rating form *first*

Task 2: Provide ratings on the miniCEX form





Assessing for the Desired Outcome







Who Watched You?



Being ObservedHow did it feel?Was it useful?

<u>Have you done it?</u>How did it feel?Was it useful?





Theories supporting the importance of direct observation

Development of expertise
 Role in competency based medical education

Necessity in supervision





Clinical Skills Do Matter

➢ History/exam

- Makes diagnosis > 80% of the time
 - \succ Even in era of technology
- Required to avoid unnecessary testing

Patient centered communication associated with Increased patient knowledge and self-efficacy Increased adherence and well-being Improved outcomes Hampton BMJ 1975 Peterson 1992 Decreased costs Levinson W et al. 2010; 29: 1310-18





Patient Centered Care

- Focuses on patient's needs/ concerns, not just doctors
- Explores patients' main reason for visit, concerns, need for information
- Seeks integrated understanding of patients' world including emotional needs and life issues
- Finds common ground on what the problem is and mutually agrees on management
- Enhances the continuing relationship between the patient and the doctor

Little P et al. BMJ 2001;322:468-72



State of Clinical Skills

Trainees

 Wide variability in graduating students' clinical skills measured as MS4s or starting internship
 History taking
 Exam

Practicing physicians

- Variability in physical exam skills
- Missing elements of informed decision making

Stillman. Ann Intern Med.1990; Sachdeva. Arch Surg.1995; Lypson.Acad Med.2004; Mangione.1997; Braddock.1999





Why the Gap??

Communication is a sophisticated procedure
 Needs to be taught and honed throughout one's career

Skills of patient-centered communication are rarely taught or practiced

Levinson W. BMJ Qual Saf 2011





What Do They Have in Common?















American Board of Internal Medicine* 11



How Do People Become Experts?

- Deliberate practice
 - Working on well defined tasks
 - Informative feedback
 - Repetition
 - Self-reflection
 - Motivation
 - Endurance

Ericsson KA et al. Psych Rev.1993.100(3):363-406.





Self Assessment

Individually generated summary judgment of one's skill level

Inaccurate

- Poor performers overestimate
- Outstanding performers underestimate

Davis D et al. JAMA 2006; 296:1094-1102 Eva KW et al. Acad Med. 2005;80:S46-54





Expert Performance vs. Everyday Skills



Ericsson KA. Acad Med. 2004





The Role of the Coach



- "They observe, they judge, and they guide"
- "That one twenty-minute discussion gave me more to consider and work on than I'd had in the past five years"
- "Medical practice is largely unseen by anyone who might raise one's sights. I'd had no outside ears and eyes."

Atul Gawande, New Yorker 10/3/2011





Observation and Safe Patient Care

Importance of appropriate supervisionEntrustment

Trainee performance* X Appropriate level of supervision** *Must* = Safe, effective patient-centered care

* a function of level of competence in context **a function of attending competence in context

Kogan JR, Conforti LN, lobst WF, Holmboe ES. <u>Reconceptualizing Variable Rater Assessments</u> <u>as Both an Educational and Clinical Care Problem.</u> Acad Med. 2014 Mar 24. [Epub ahead of print]





A practitioner has demonstrated the necessary knowledge, skills, and attitudes to be trusted to independently perform this activity."

Ten Cate O, Scheele F. Acad Med 2007;82:542-7





Your Supervision

- >How do you usually supervise?
- >When do you supervise more closely?
- How do you change your supervision to ensure patients get safe, effective, patient-centered care?
- What did you learn observing that will change how you supervise going forward?

REMEMBER: SUPERVISION ALSO FOR FEEDBACK











Accreditation Council for Graduate Medical Education 19

To recognize factors that impact the quality and accuracy of rater assessments





Problems with Performance Assessment

Poor accuracy

Focus on different aspects of clinical performance

Differing expectations about levels of acceptable clinical performance

Rating errors
 Halo effect/ "Horn" effect
 Leniency/stringency effect
 Central tendency



Factors That May Impact Ratings

Minimal impact of demographics

- Age, gender, clinical and teaching experience
- Faculty's own clinical skills may matter
 - Faculty with higher history and patient satisfaction performance scores provide more stringent ratings.

Kogan JR. et al. Acad Med. 2010;85(10 Suppl):S25-8





Factors Influencing Faculty Ratings

Different frameworks for judgments/ratings

- Self-as-reference (predominant)
- Trainee level
- Absolute standard
- Practicing physicians

Kogan JR, et al. Med Educ. 2011. 45(10):1048-60 Yeates P et al. Adv in Heath Sci Educ. In Press Govaerts Adv Health Sci Educ. 2007.12(2):239-60.





Faculty OSCE Clinical Skills

<u>Competency</u>	<u>Mean (SD)</u>	<u>Range</u>	<u>Generaliz-</u> <u>ability</u>
History Taking	65.5% (9.6%)	34% - 79%	0.80
Physical Exam	78.9% (13.6%)	36% - 100%	0.52
Counseling	77.1% (7.8%)	60% - 93%	0.33
Patient Satisfaction ¹	5.62 (0.48)	4.43 – 6.63	0.60

¹On 7-point scale

N=44

Kogan JR. et al. Acad Med. 2010;85(10 Suppl):S25-8





Other Factors Influencing Ratings

Contextual factors
 Encounter complexity
 Resident characteristics
 Institutional culture

Emotions surrounding constructive feedback

➢Inference





Types of Inference about Residents

≻Skills

Knowledge
Competence
Work-ethic

➢ Feelings

- ➢ Comfort
- Confidence
- Intentions
- ➢ Ownership

Prior experiences

Familiarity with scenario

Personality

≻Culture





High Level Inference







The Problem with Inference

Inferences are not recognized

Inferences are rarely validated for accuracy

Inferences can be wrong





Direct Observation: A Conceptual Model



Kogan JR, et al. Med Educ. 2011



Accreditation Council for Graduate Medical Education



Understand faculty development approaches to improve assessments raters make

Performance dimension training
 Synthesis to final judgment





Observations and Ratings









Accreditation Council for Graduate Medical Education

Performance Dimension Training













Performance Dimension Training

- Identify important components of information transfer (counseling about assessment and plan) and starting a chronic medication for a young child
 - > What should be discussed or done?
 - How should it be discussed or done?

Make certain that components are described behaviorally





Performance Dimension Exercise

- Review frameworks for information transfer (counseling about assessment and plan/starting a medication) for any additions
 - SEGUE Makoul GT. 1993/1999
 - STRUCTURED CLINICAL OBSERVATION Lane JL, Gottlieb RP. Pediatrics. 2000;105:973-7.
 - Informed Decision Making

Braddock CH, Edwards KA, Hasenberg NM, Laidley TL, Levinson W. JAMA 1999; 282:2313-2320





Apply Your Framework to Scenario

>What did the resident do well?

>What are the errors/deficiencies?





Monitoring for Inference

TIP 1: Ask

- > Is this the "right" conclusion?
- > Why am I making these interpretations?
- > Is this really based on all the facts?

TIP 2: Reflect on your reasoning

Do you tend to make assumptions too easily?Do you tend to select only part of the data?



Synthesis to Judgment

Goal: Improve the quality and accuracy of the educational "judgment" using a compare and contrast process





Steps: Synthesis to Judgment

Review vignettes of different performance levels

- Judge using behaviorally-based frameworks (e.g. evidence based frame of reference)
- Trainer provides feedback on assessment accuracy
- Discuss discrepancies between scripted performance and participants' assessments





What Was the Basis of Your Judgment?

Why did you give this rating?What influenced your rating?





Group Discussion

>What are the elements?

- Apply to scenario
- >What are the implications of this approach?







Questions





