Evaluating Medical Students

Connecting Feedback and Evaluation to Maximize Learning

Joshua Jauregui, MD
Department of Emergency Medicine
CLIME Special Projects Associate
University of Washington

Disclosure

Neither I, nor any member of my immediate family, have a significant financial interest in/or affiliation with any commercial supporter of this educational activity and/or with the manufacturer(s) of commercial products and/or providers of any commercial services discussed in this educational activity.

The content of my material/presentation in this CME activity will not include discussion of unapproved or investigational uses of products or devices.



U.S. INTERNATIONAL 中文系

Subscribe to Home Delivery



The New York Times

Wednesday, January 8, 2014 🛅 Today's Paper Personalize Your Weather 📳 🕊

U.S. NEW YORK BUSINESS OPINION SPORTS SCIENCE ARTS FASHION & STYLE CROSSWORDS VIDEO

All Sections

П

Emails Tie Top Christie Aide to Lane Closings, Despite Denials.

By KATE ZERNIKE 37 minutes ago A series of emails shows that a deputy chief of staff to Gov. Chris Christie of New Jersey

gave a signal to close lanes on the George Washington Bridge, in what appeared to be political retribution.

■ Comments.

Despite Fears Over Al Qaeda, Saudis Back Syrian Rebels

ousting Syria's president,

By ROBERT F. WORTH The Saudis are bent on



Uset Manages Getty Images

DANGER ZONE Mount Sinabung sent smoke over western Indonesia Wednesday. Local reports said tens of thousands of people had been displaced by the volcano's eruptions.

U.S. Criticizes Zero-Tolerance Policies in Schools *

By MOTOKO RICH 43 minutes ago

The Obama administration on Wednesday recommended that public schools emphasize positive behavior.

The Opinion Pages

€ News

YOUR DAILY BRIEFING

OP ED CONTRIBUTORS What Happened to Transparency?

BYTHE EDITORIA The Obama ad should stop fig. legal advice.

- Gabrielle Gif
- Lessons of Ph Bittman: How
- for Cheerios Edsall: Bridg Compassion (

MARKETS *

S.&P. 500 1,836.74 -1.14

-0.06% Get Quotes | My

INT

9:18 AM

Good morning.

What you need to know to start your

Monday: Obama and Boehner meet at the White House, turnoil in Ukraine, and the markets are up.

GOVERNMENT SURVEILLANCE



Passed who should have failed.

Speer. Teaching and Learning in Medicine. 2009. 1996-1997.



Passed who should have failed.







































- 1. Validity or coherence
- 2. Reproducibility
- 3. Equivalence
- 4. Feasibility
- 5. Educational effect
- 6. Catalytic Effect
- 7. Acceptability



Road Map



Challenges



Assessment Frameworks



Linking Feedback and Evaluation

Road Map



Challenges

Tools- Evaluation Form

Users of the tools- Us

Challenges

(Question 19 of 29 - Mandatory)							
OTHER EVALUATION COMPONENTS: NA is acceptable for withdrawal and elective clerkships							
Bioethical Component							
Mini-CEX:	ohysical exam s	skill or other cli	nical skill				
Final Examination Grade							
	essment e evaluations s						e you feel the
N/A or Withdrawal	Unacceptable	Needs Development	Meets or Exceeds Expectation				
0 0	O 1	C 2	0 3				
Is there a co	Yes	inical Performa	ance? (Qu	uestion 21 o	of 29 - N	landatoi	y)
Describe co	ncern below on	Clinical Perfor	rmance. (Question 2	2 of 29)		

Use the evaluation form as a guide



Orient your students to the form



Regularly map feedback to evaluation





Assessor as:

- 1. Trainable
- 2. Fallible
- 3. Meaningfully Idiosyncratic

Trainable

Assessor with training could provide the "correct response."





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

Fallible

Assessment relies on human judgment, which is imperfect.

Hawk and Dove Effect

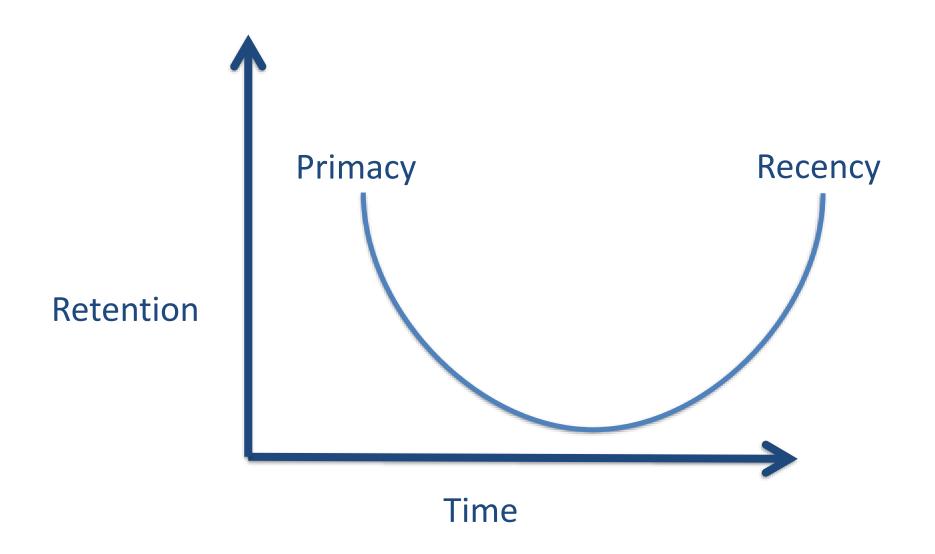








Primacy and Recency Effect



Spillover Effect



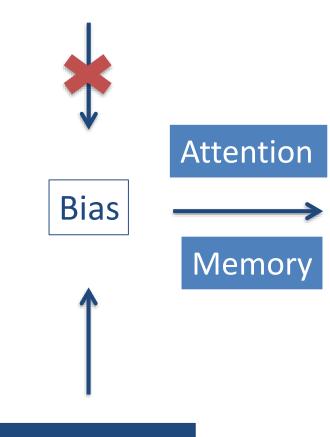


Contrast Effect

Yeates, P. Medical Education. 2013

Conscious

Emotions
Time pressure
Circadian rhythms
Motivation
Pre-existing prejudice
Individual preferences

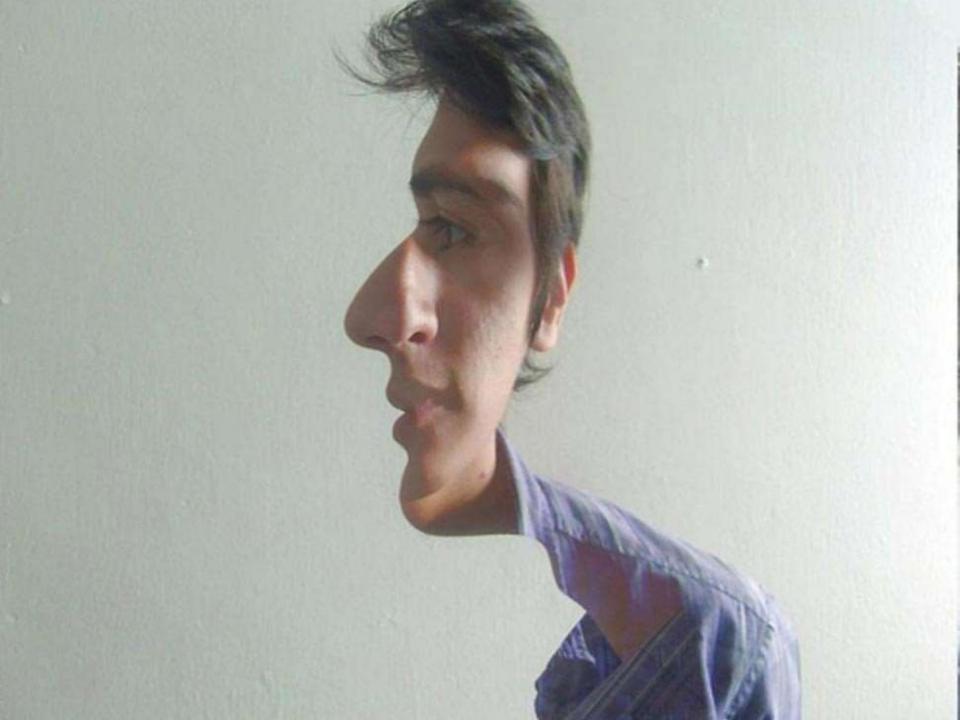


Assessment

Unconscious

Meaningfully Idiosyncratic

What if variability in our assessments are, at least in part, because of relevant and legitimate, albeit different, interpretations?



Meaningfully Idiosyncratic



1.	Medical	Interviewing	Skills
----	---------	---------------------	---------------

1 2 3 | 4 5 6 | 7 8 9 UNSATISFACTORY SATISFACTORY SUPERIOR

6. Organization/Efficiency

1 2 3 | 4 5 6 | 7 8 9 UNSATISFACTORY SATISFACTORY SUPERIOR

7. Overall Clinical Competence

1 2 3 | 4 5 6 | 7 8 9 UNSATISFACTORY SATISFACTORY SUPERIOR

Interviewing Skills

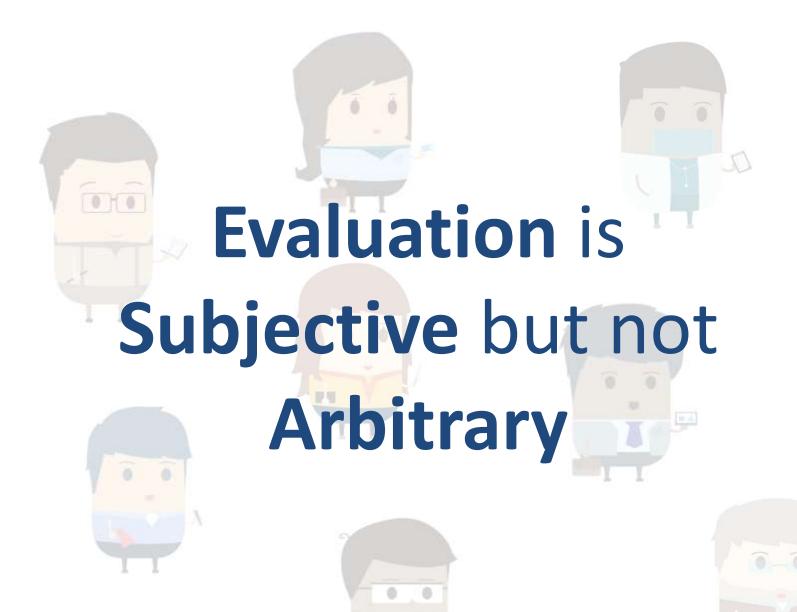


Organizational Skills



Overall





van der Vleuten et al, 1991 Regehr et al, 1998 Eva & Hodges, 2012

















Take Home Points

- 1. Observation is key
- 2. Maintenance of clinical competence
- 3. Robust sample of tasks
- 4. Robust sample of assessors
- 5. Facilitated group discussions

Road Map



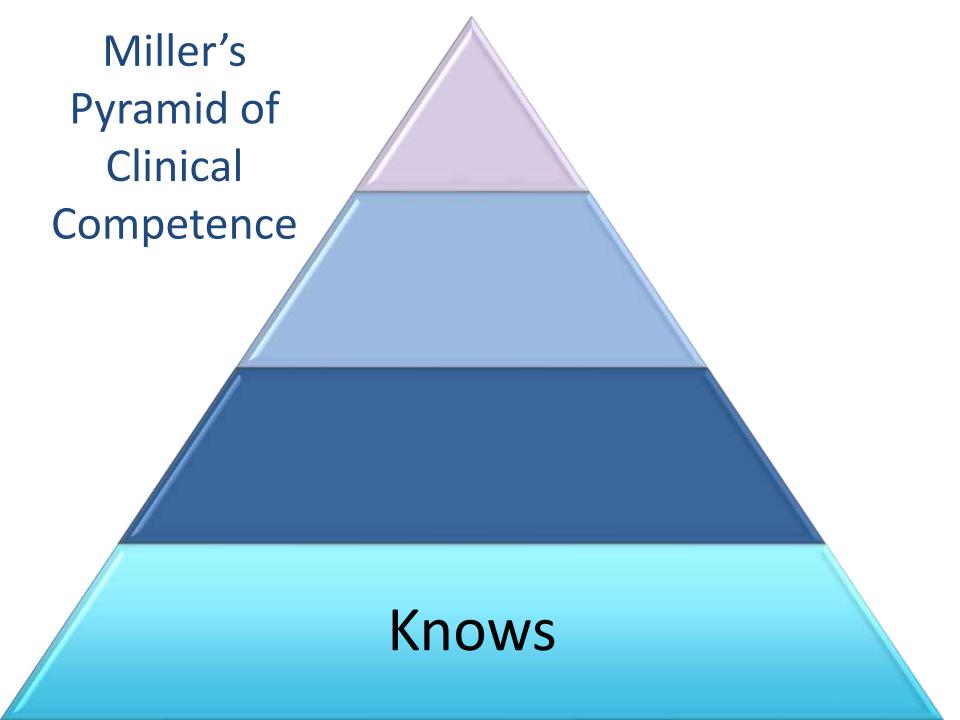
Assessment Frameworks

Miller's
Pyramid of
Clinical
Competence

Does

Shows How

Knows How



Miller's Pyramid of Clinical Competence **Knows How**

Miller's
Pyramid of
Clinical
Competence

Shows How

Knows How

Miller's
Pyramid of
Clinical
Competence

Does

Shows How

Knows How

A framework beyond, "A pleasure to work with and read more."



Р	rofessional
R	eporter
	nterpreter
M	anager
E	ducator
+	

Р	Reliability, respect, responsibility, in dress and appearance
R	eporter
	nterpreter
M	anager
Е	ducator
+	

Р	Reliability, respect, responsibility, in dress and appearance
R	Obtain info, report coherently in oral and written form
	nterpreter
M	anager
E	ducator
+	

Р	Reliability, respect, responsibility, in dress and appearance
R	Obtain info, report coherently in oral and written form
	Synthesize the data, develop differential diagnosis
M	anager
E	ducator
+	

Р	Reliability, respect, responsibility, in dress and appearance
R	Obtain info, report coherently in oral and written form
	Synthesize the data, develop differential diagnosis
M	Manage diagnostic and therapeutic plans, manage one's own time
E	ducator
+	

Р	Reliability, respect, responsibility, in dress and appearance
R	Obtain info, report coherently in oral and written form
	Synthesize the data, develop differential diagnosis
M	Manage diagnostic and therapeutic plans, manage one's own time
E	Self-directed learning, responding to feedback, interprets the literature
+	

Р	Reliability, respect, responsibility, in dress and appearance
R	Obtain info, report coherently in oral and written form
	Synthesize the data, develop differential diagnosis
M	Manage diagnostic and therapeutic plans, manage one's own time
E	Self-directed learning, responding to feedback, interprets the literature
+	What to do next to improve and grow

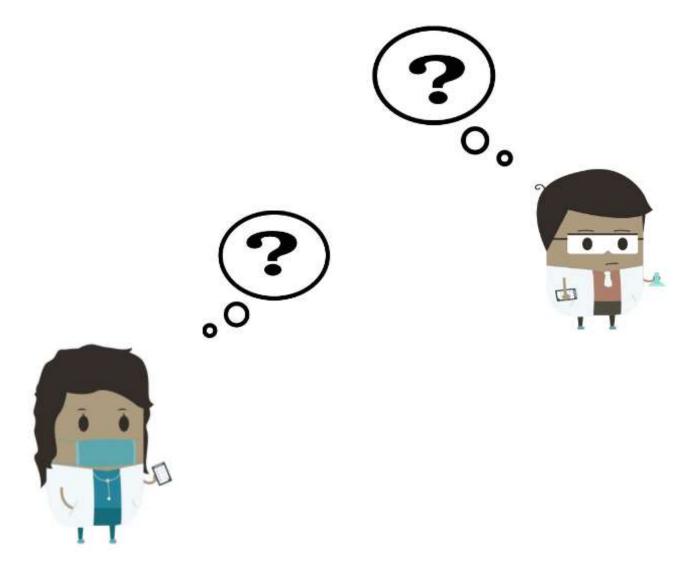
Jane was always on time, reliable, and dependable such that I always knew the information she provided was accurate. She was able to report data succinctly and gather complete histories while simultaneously maintaining excellent rapport with families. She performed good differential diagnoses, was able to interpret lab data, PFTs, etc, and to independently find resources to help her when she came across data she had not encountered previously. Jane could synthesize good plans, and managed patients well, always spending additional time to ensure family understanding of instructions. She responded well to feedback with appreciation and an upbeat attitude, worked diligently on fund of knowledge, and was able to educate families and patients well on various illnesses; always the professional, spending more time and effort whenever it was required by the situation.

Road Map



Linking Feedback and Evaluation





Gil et al. J Med Ed 1984
Boehler et al. Med Educ 2006
AAMC Medical Student Questionnaire: https://www.aamc.org
Liberman et al. Med Teach 2005

Road Map



Linking Feedback and Evaluation



Formative Feedback



Summative Feedback







Ask

Tell

Ask



R2, C2

R: Build the Relationship

R: Explore Reactions to and perceptions of report

C: Explore understanding of the Content

C: Coach for performance change

R: Relationships



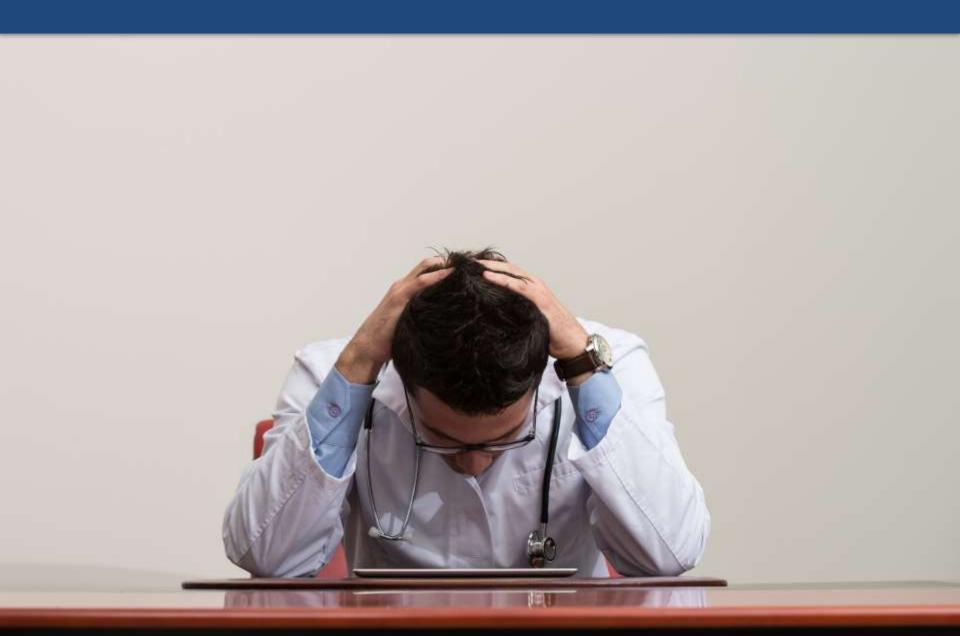
R: Relationships

"Tell me about your experiences on this rotation"

 "I'd like to hear about your practice (setting, patients, challenges, what you enjoy)."

 "Would you like to hear more about the assessment process?"

R: Reactions



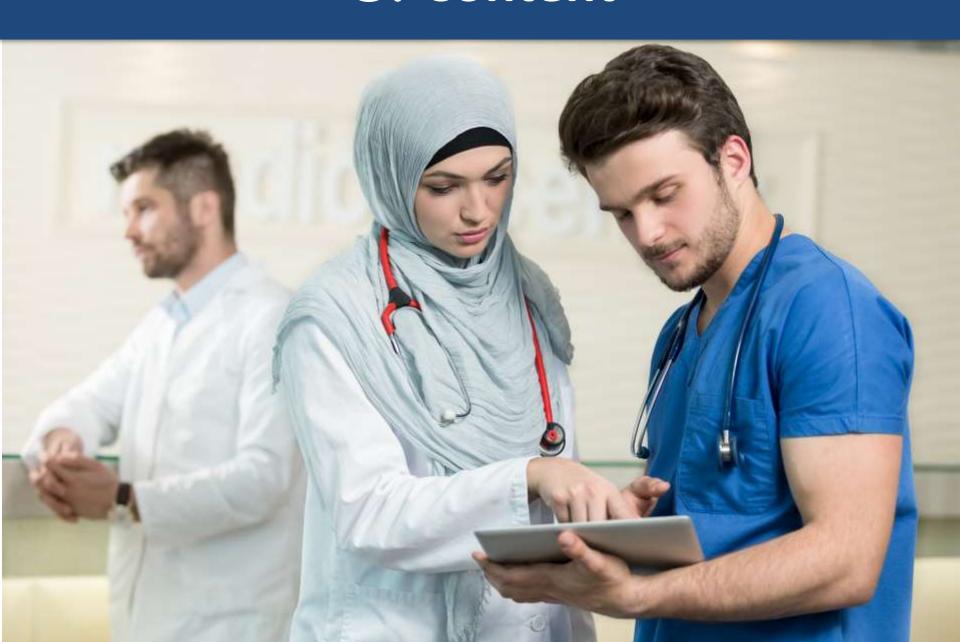
R: Reactions

 "What were your initial reactions? Anything particularly striking?"

 "Did anything in the report surprise you? Tell me more about that...."

 "Based on your reactions, is there a particular part that you would like to focus on?"

C: Content



C: Content

 "Was there anything in the report that didn't make sense to you?"

 "Anything in section X that you'd like to explore further or comment on?"

"Do you recognize a pattern?"

C: Coach



C: Coach

 "If there were just one thing that you would like to work on, what would it be?"

"Who/what might help you with this change?"

"What might get in the way?"

R2, C2

R: Build the Relationship

R: Explore Reactions to and perceptions of report

C: Explore understanding of the Content

C: Coach for performance change

Thank You

