



ACGME

Direct Observation

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Southeast Hub: Developing Faculty Competencies in Assessment

Speakers: Kati Beben, MD, Molly Benedum, MD, Regina Bray Brown, MD, MHPE, Kate Hatlak, EdD, Monica Newton, DO, MPH, Varsha Songara, MD, MHPE, Daniel Yoder, Jr. MD, and Kathleen Young, PHD, MPH, LP, ABPP

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Disclosure: None of the speakers for this educational activity have a relevant financial relationship(s) to disclose with ineligible companies whose primary business is producing, marketing, selling, re-selling, or distributing healthcare products used by or on patients.



Conflicts of Interest

- None to report



Acknowledgment

- This presentation utilizes ACGME resources.
- Developing Faculty Competencies in Assessment: A Course to Help Achieve the Goals of Competency-Based Medical Education (CBME), May 8-12, 2023
- [ACGME Faculty Development Toolkit: Improving Assessment Using Direct Observation](#)
- Holmboe ES, Durning SJ, Hawkins RE. Practical Guide to the Evaluation of Clinical Competence.



Objectives

1. Define workplace-based assessment and the importance of direct observation in achieving competency-based medical educational outcomes.
2. Recognize and assess the barriers to frequent and high-quality direct observation.
3. Demonstrate an understanding of effective strategies to enhance the quality and frequency of direct observation in educational and professional settings.



VARIABLE	EDUCATIONAL PROGRAM	
	STRUCTURE/PROCESS-BASED	COMPETENCY-BASED
DRIVING FORCE FOR CURRICULUM	Content – knowledge acquisition	Outcome – knowledge application
DRIVING FORCE FOR PROCESS	Teacher	Learner
PATH OF LEARNING	Hierarchical (teacher → student)	Non-hierarchical (teacher ↔ student)
RESPONSIBILITY FOR CONTENT	Teacher	Student and teacher
GOAL OF EDUCATIONAL ENCOUNTER	Knowledge acquisition	Knowledge application
TYPICAL ASSESSMENT TOOL	Single subjective measure	Multiple objective measures (“evaluation portfolio”)
ASSESSMENT TOOL	Proxy	Authentic (mimics real tasks of profession)
SETTING FOR EVALUATION	Removed (gestalt)	“In the trenches” (direct observation)
EVALUATION	Norm-referenced	Criterion-referenced
TIMING OF ASSESSMENT	Emphasis on summative	Emphasis on formative
PROGRAM COMPLETION	Fixed time	Variable time

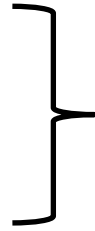
Assessments





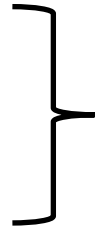
Assessments of Clinical Skills

- Clinical reasoning
- Clinical judgment
- Reflective practice



Cognitive
Questions

- History
- Physical exam
- Counseling



Psychomotor
Observation



Who watched you?

- Discuss:
- A time when you watched someone
 - How did it feel?
 - Was it useful? Why or why not?
- When someone watched you
 - How did it feel?
 - Was it useful? Why or why not?



Mastery requires feedback and deliberate practice



“Learning is deeper and more durable when it’s effortful. Learning that’s easy is like writing in sand, here today and gone tomorrow.”

— Peter C. Brown, *Make It Stick*

<https://www.youtube.com/watch?v=8080808080>

make it stick



The Science of Successful Learning

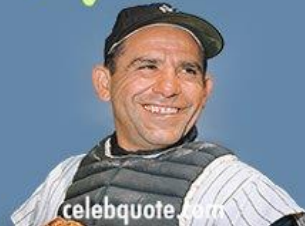
Peter C. Brown
Henry L. Roediger III
Mark A. McDaniel



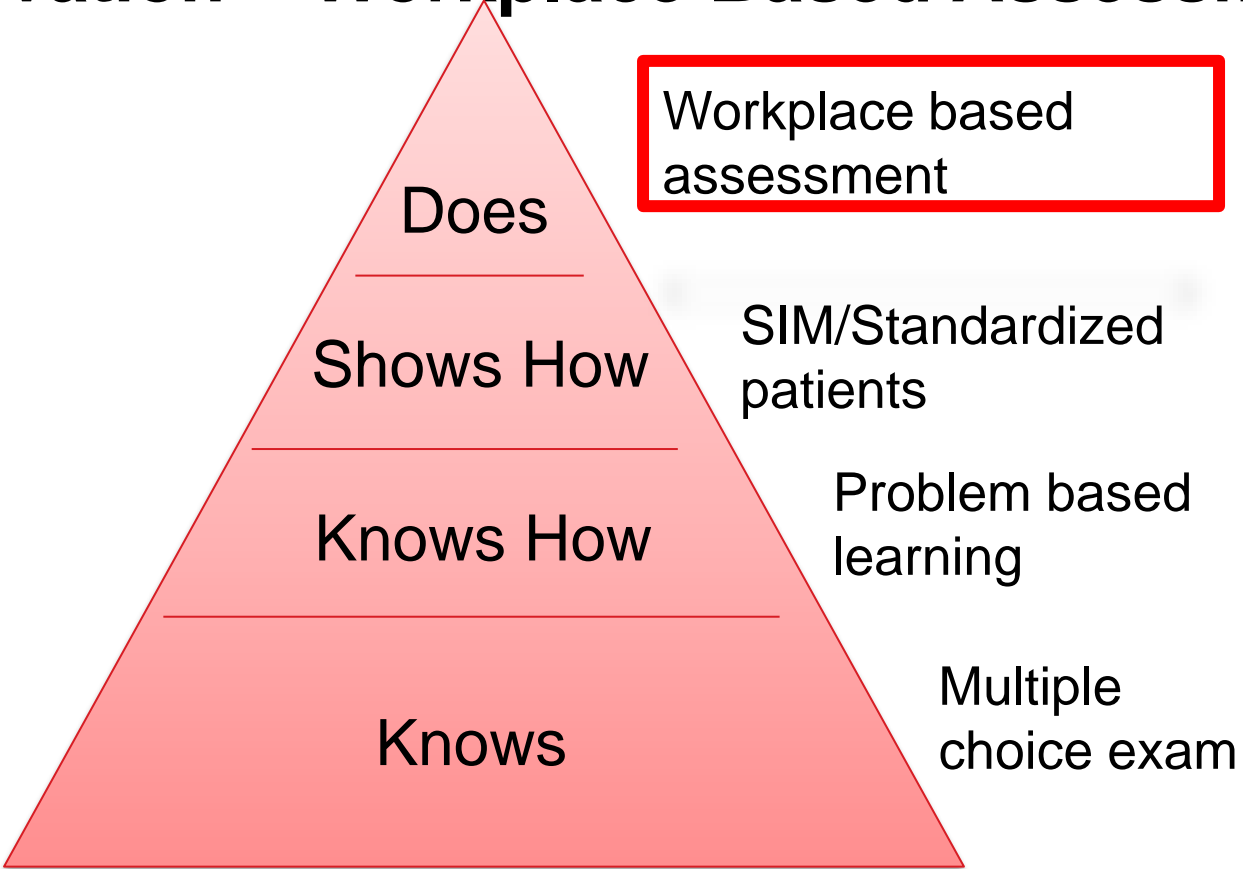
Why are observations so important?

YOU CAN
OBSERVE A LOT
BY JUST WATCHING

Yogi Berra



Direct Observation = Workplace Based Assessment



Adapted from Miller, G E. The assessment of clinical skills/competence/performance. Academic Medicine 65(9):p S63-7, September 1990

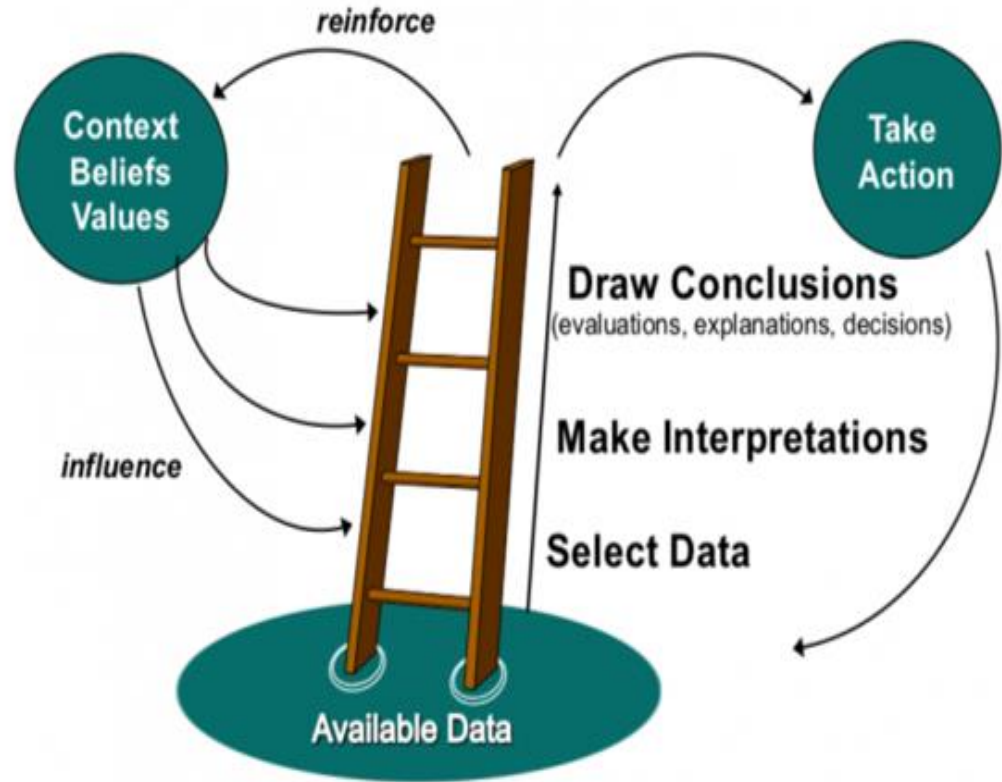


Why are observations so important?

- Observation: The act of taking note of something that is occurring around you. It must involve your senses (touch, sight, hearing, etc)- Data gathering
- Inference involves drawing conclusions or making judgments based on observations (your own or someone else's).



LADDER OF INFERENCE

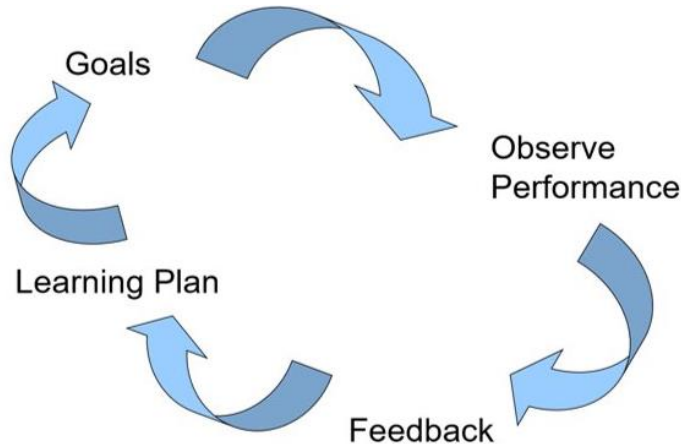


Senge, Peter M. (1990). *The fifth discipline : the art and practice of the learning organization*. New York :Doubleday/Currency



Why are observations so important?

- Foundational assessment strategy in CBME
- Assessment drives learning
- Essential component of the learning cycle



Why are observations so important?

- Most importantly!
- Ensuring safe, effective, patient-centered care
 - Trainees
 - Wide variability in graduating students' clinical skills measured as MS4s or starting internship
 - Practicing physicians
 - Variability in physical exam skills
 - Missing elements of informed decision making

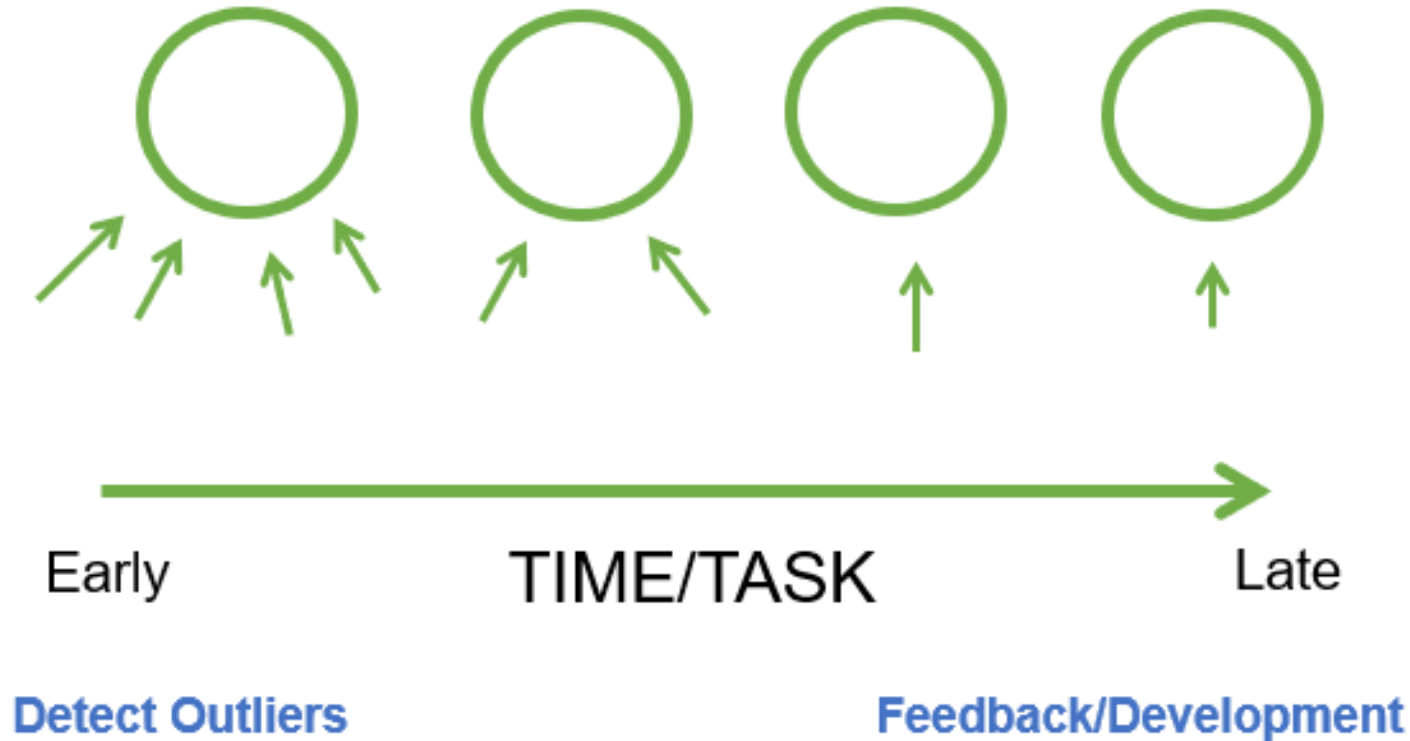


Assumptions

- What assumptions do we make about trainees' skills?
- Why do we make them?
- When do we make them?
- What assumptions do we make on July 1st? Or June 30th?
- When is a resident ready to supervise?



Direct Observation Tests Assumptions



Entrustable Professional Activities (EPAs)

- EPAs represent the routine *professional-life* activities of physicians based on their specialty and subspecialty
- The concept of “entrustable” means...
- “... a practitioner has demonstrated the necessary knowledge, skills, and attitudes to be trusted to perform this activity *[unsupervised.]*”

¹Ten Cate O, Scheele F. Competency-based postgraduate training: can we bridge the gap between theory and clinical practice? *Acad Med.* 2007; 82(6):542–547.



Entrustability Scales

Level	Descriptor
1	"I had to do" (i.e., requires complete hands on guidance, did not do, or was not given the opportunity to do)
2	"I had to talk them through" (i.e., able to perform tasks but requires constant direction)
3	"I had to prompt them from time to time" (i.e., demonstrates some independence, but requires intermittent direction)
4	"I needed to be there in the room just in case" (i.e., independence but unaware of risks and still requires supervision for safe practice)
5	"I did not need to be there" (i.e., complete independence, understands risks and performs safely, practice ready)

The Ottawa surgical competency operating room evaluation (O-SCORE): A tool to assess surgical competence



Step 1. Resident sees patient and comes out to share their observations



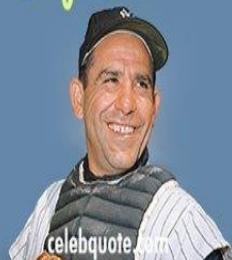
Step 2.

We make a judgement on the reasonableness, completeness of their observations, and we infer



YOU CAN
OBSERVE A LOT
BY JUST WATCHING

Yogi Berra



You're a fly on the wall...

Case:

- Second-year resident counseling a 54-year-old woman with hypertension, hyperlipidemia, obesity, and tobacco use who meets criteria to start lipid-lowering therapy



You're a fly on the wall...

Case:

Second-year resident counseling a 54-year-old woman with hypertension, hyperlipidemia, obesity, and tobacco use who meets criteria to start lipid-lowering therapy

- Use your mini-CEX to document
- Areas performed well
- Errors/deficiencies
- How would you supervise the resident next time?
- Select a mini-CEX rating for counseling





7. Overall clinical competence

1 2 3
UNSATISFACTORY

| 4 5 6
SATISFACTORY

| 7 8 9
SUPERIOR

8. On what did you base your overall rating? (Check all that apply)

- On what a resident of that PGY level would be expected to do
- On what a practicing physician would be expected to do
- On how similar it was to what I would have done in that situation
- On guidelines for best practices
- It was a gestalt (i.e., a gut feeling)
- Other (Please explain)

Audience discussion

- After directly observing the encounter, how did you rate the resident's overall competence on the mini-CEX form?
 - Why did you give this rating?
 - What influenced your decision?





Frame of Reference?

1	2	3	4	5	6	7	8	9
Unsatisfactory			Satisfactory			Superior		

Adapted from Microlearning Understanding Issues of Reliability and Validity
ACGME – Direct Observation Toolkit



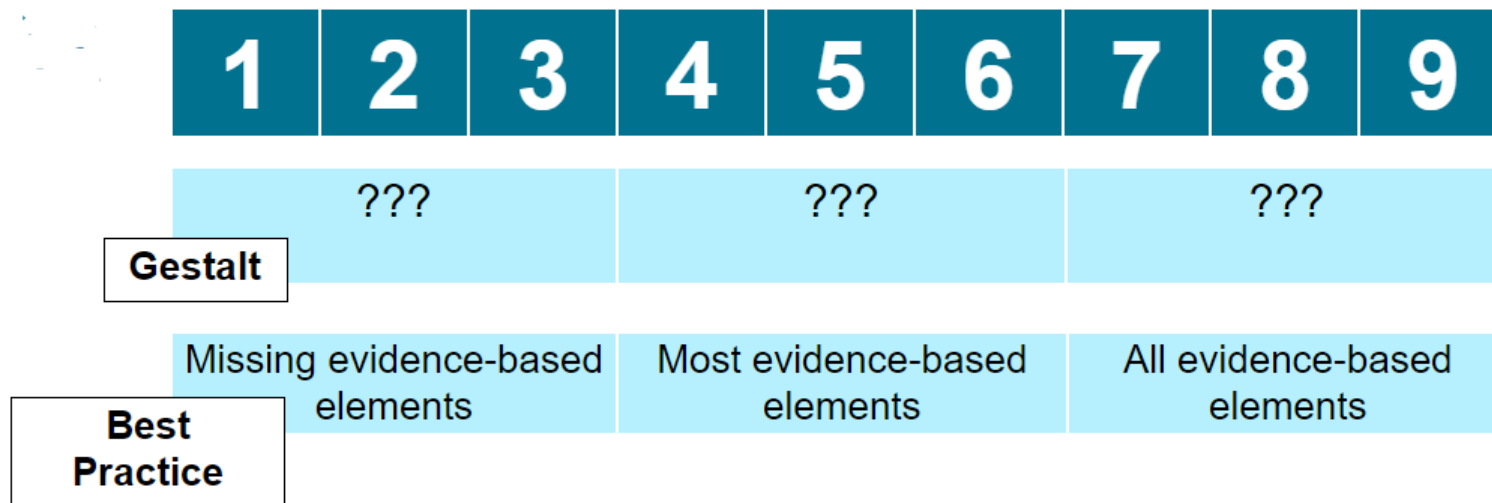
Frame of Reference?

	1	2	3	4	5	6	7	8	9
	Unsatisfactory			Satisfactory			Superior		
<i>Normative</i>	Worse than expected for level			At expected level			Better than expected for level		
<i>Self</i>	Not what I do			Close to what I do			Better than what I do		

Adapted from Microlearning Understanding Issues of Reliability and Validity
ACGME – Direct Observation Toolkit



Frame of Reference?



Adapted from Microlearning Understanding Issues of Reliability and Validity
ACGME – Direct Observation Toolkit



Tools to create an evidence-based frame of reference

Framework: History Taking

Sets the Stage	
1	Knocks on door before entering or asks permission to enter patient's space
2	Greets patient appropriately
3	Thanks patient for waiting; apologizes if late
4	Ensures patient readiness and privacy
5	Determines how patient would like to be addressed and calls patient by preferred name (new patient)
6	Introduces self (new patient)
7	Starts with social talk/small talk (first and return visit)
8	Removes barriers to communication (sits down before starting interview, makes eye contact, uses open body language)
9	Makes patient comfortable
Elicits Chief Concerns/Sets the Agenda	
10	Indicates time available (i.e. "in this visit" or "in the time we have today")
11	Obtains list of all issues patient wants to discuss; asks patient to prioritize list
12	Indicates physician's needs
13	Summarizes agenda and negotiates
Begins with Non-Focusing Questions to Help Patient Express Self	
14	Starts with open ended question (unless inappropriate)
15	Uses non-focusing open ended skills (uses open ended questions, uses silence, makes neutral utterances, doesn't interrupt)
16	Obtains information from nonverbal sources
Uses Focusing Skills to Elicit Symptom Story, Personal and Emotional Content	
17	Obtains description of symptom(s) (elicits physical symptom story in open ended way, reflecting, echoing, requesting (tell me more), summarizing)
18	Explores personal context (broader personal/psychological context of symptoms, beliefs, attributions, cultural, conceptual, social and spiritual)
19	Elicits emotional context directly (how did that make you feel) or indirectly (impact on life). Elicits beliefs about the problem, triggers for seeking care
20	Responds to patient's feelings/emotions using empathy by NURS (naming, understanding/legitimizing, respecting, supporting)
21	Expands the story by continuing to elicit personal and emotional context addressing feelings and emotions

Created by Jen Kogan and Eric Holmboe for the ACGME Course *Developing Faculty Competencies in Assessment: A Course to Help Achieve the Goals of Competency-based Medical Education (CBME)*.
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ACGME FACULTY DEVELOPMENT TOOLKIT: IMPROVING ASSESSMENT USING DIRECT OBSERVATION Framework: Counseling/Shared Decision Making



Setting the Stage and Getting Started

- Begins by orienting patient to the end of interview (e.g., "We will be discussing assessment and plan")
- Asks if patient would like someone else present
- Assesses what patient knows (patient understanding) before telling

Discussing the Clinical Issue/Diagnosis/Nature of Decision

- Explains diagnosis/prognosis, incorporating patient's informational needs. Connects language of symptom description to diagnosis.
- Assesses patient readiness to address topic, invoke change

Shared Decision Making

- Discusses patient role in decision-making (explicit discussion there is a decision to make)
- Discusses clinical issue or nature of the decision
- Discusses alternatives
- Discusses pros and cons of alternatives
- Discusses uncertainties with decision (complex decision only)
- Assesses patient understanding
- Explores patient preference/willingness to follow recommendation

Content of Plan

- Provides medically accurate and complete plan
- Identifies SMART (specific, measurable, actionable, realistic, and time-based) goal acceptable to patient
- Discusses medication name, number of pills per day, how to take, side effects, etc.
- Presents plan in an organized manner

Wrapping Up

- Addresses patient's barriers to recommendation (financial, social, cultural)
- Summarizes decisions; provides written plans/instructions appropriate to patient's level of health literacy
- Discusses patient's ability and confidence to follow agreed-upon plan
- Uses teach back
- Arranges follow-up
- Indicates reasons for sooner follow-up



Rater Errors

- Correlation Errors
 - Halo vs Horn effect
- Distributional Errors
 - Doves vs Hawks



“Think something that nobody has thought yet, while looking at something that everyone has seen”

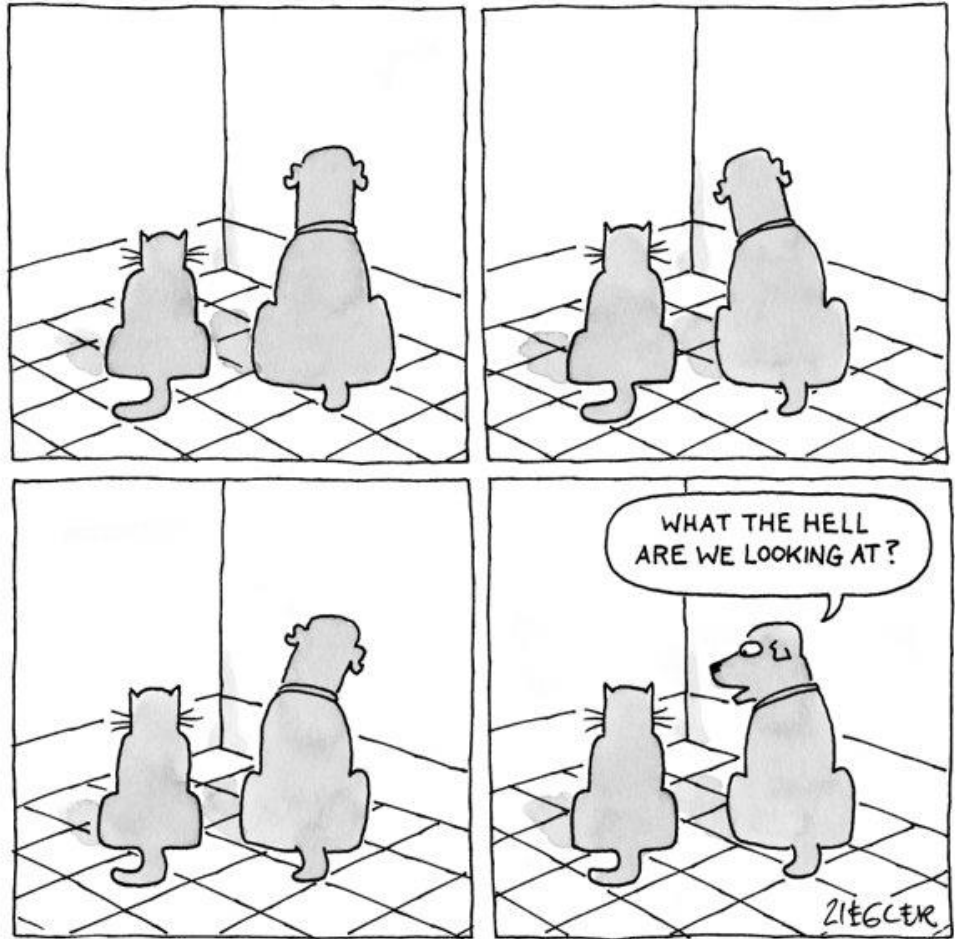
Arthur Schopenhauer- “Philosopher of Pessimism”



Increasing reliability



**It helps to
know what
you are
looking for!**



Performance Dimension Training

Identify specific dimensions of a competency
in behavioral terms



Discuss the criteria and qualifications required for each
dimension of that competency



Compare with an evidenced-based framework



Develop a SHARED MENTAL MODEL



Creating a shared mental model

Lets Practice!

How do you make a Peanut Butter and Jelly sandwich?

- Place two pieces of bread on plate
- Spread peanut butter on one piece
- Spread jam on other piece
- Put together
- Cut in half (optional)
- **Wash hands**



Creating a shared mental model

How do you make a Peanut Butter and Jelly sandwich?

- Place two pieces of bread on plate
- Spread peanut butter on one piece
- Spread jam on the other piece
- Put together
- Cut in half (optional)
- Wash hands



Shared Mental Model

- Notion that the team will perform better if they have a **shared understanding** of the **task** to be performed and the role of the team member.

Jonker, C.M., van Riemsdijk, M.B., Vermeulen, B. (2011). Shared Mental Models. In: De Vos, M., Fornara, N., Pitt, J.V., Vouros, G. (eds) Coordination, Organizations, Institutions, and Norms in Agent Systems VI. COIN 2010. Lecture Notes in Computer Science(), vol 6541. Springer, Berlin, Heidelberg. <https://doi.org/10.1007/978-3-642-21268-0>



How to Create a Shared Mental Model

1. Set aside Faculty Development time
2. Have the group make a list of observations they would like to make
3. Choose one
4. Then have group make a list of steps they expect to see to complete the skill
5. (Share with group a validated tool- if one available)
6. Compare your list to the validated tool- tweaking it as needed (streamline or add)
7. Pilot it (perhaps on a standardized video as a group)
8. Discuss time to implement
9. Discuss tracking of resident progress

GYN exam/Pelvic exam	GYN exam
Osteopathic Structural Exam	Osteopathic Exam
Shared Decision Making	
New Medication	shared decision making
Pain Management	shared decision making
Goals of Care	shared decision making
Contraception Counseling	shared decision making
Informed Consent	informed consent
Other	shared decision making
Difficult Conversations	
Bad News	SPIKES model
End of Life	SPIKES model



Lets give it a try... SMM for agenda setting

	Elicits Chief Concerns/Sets the Agenda
10	Indicates time available (i.e. “in this visit” or “in the time we have today”)
11	Obtains list of all issues patient wants to discuss; asks patient to prioritize list
12	Indicates physician’s needs
13	Summarizes agenda and negotiates



Lets see how the Framework works

	Elicits Chief Concerns/Sets the Agenda
10	Indicates time available (i.e. "in this visit" or "in the time we have today")
11	Obtains list of all issues patient wants to discuss; asks patient to prioritize list
12	Indicates physician's needs
13	Summarizes agenda and negotiates



<https://www.youtube.com/watch?v=Xy80LzVYGG0>- Mayo Clinic video

ACGME Direct Observation Tool Kit



Synthesizing observations

Did well

- Assessed patient knowledge at start of visit
- Medically accurate
 - Discussed medication
 - Organized plan

ACGME FACULTY DEVELOPMENT TOOLKIT: IMPROVING ASSESSMENT USING DIRECT OBSERVATION
Rater Assessment Form



Instructions

Thinking about the encounter that you just watched, please answer the following questions.

1. What, if anything, did you observe the resident do well (i.e., behavior that enables safe, effective, patient-centered care) and what deficiencies/errors did the resident commit (i.e., behavior that impedes or hinders safe, effective, patient-centered care)? Be as complete as possible.

Did Well	Errors/Deficiencies

Deficiencies

- Missed discussing pt role in decision
- Did not explore patient preference
- No SMART goal
- Poor side effect discussion



Prioritize observations

Did well

- Assessed patient knowledge at start of visit
- Medically accurate
 - Discussed medication
 - Organized plan

ACGME FACULTY DEVELOPMENT TOOLKIT: IMPROVING ASSESSMENT USING DIRECT OBSERVATION
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Did Well	Errors/Deficiencies

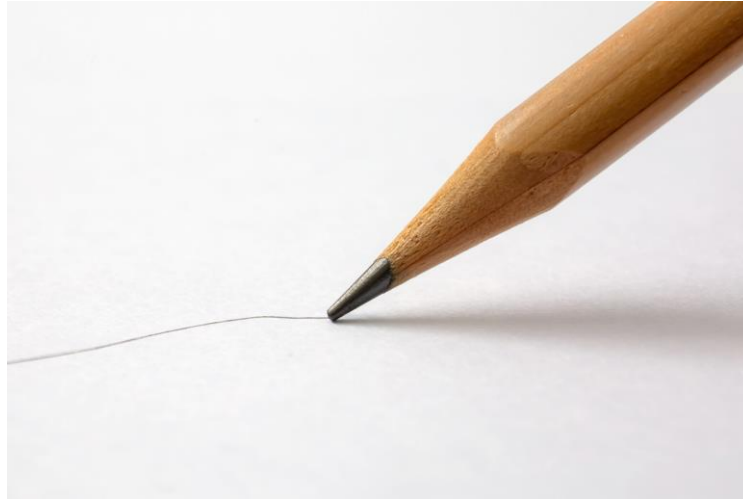
Deficiencies

- Missed discussing pt role in decision
- Did not explore patient preference
- No SMART goal
- Poor side effect discussion



Summary Statement

3. In a few words or phrases, how would you summarize/synthesize the big picture of this resident's skills in this scenario?



Summary of Steps of Observation



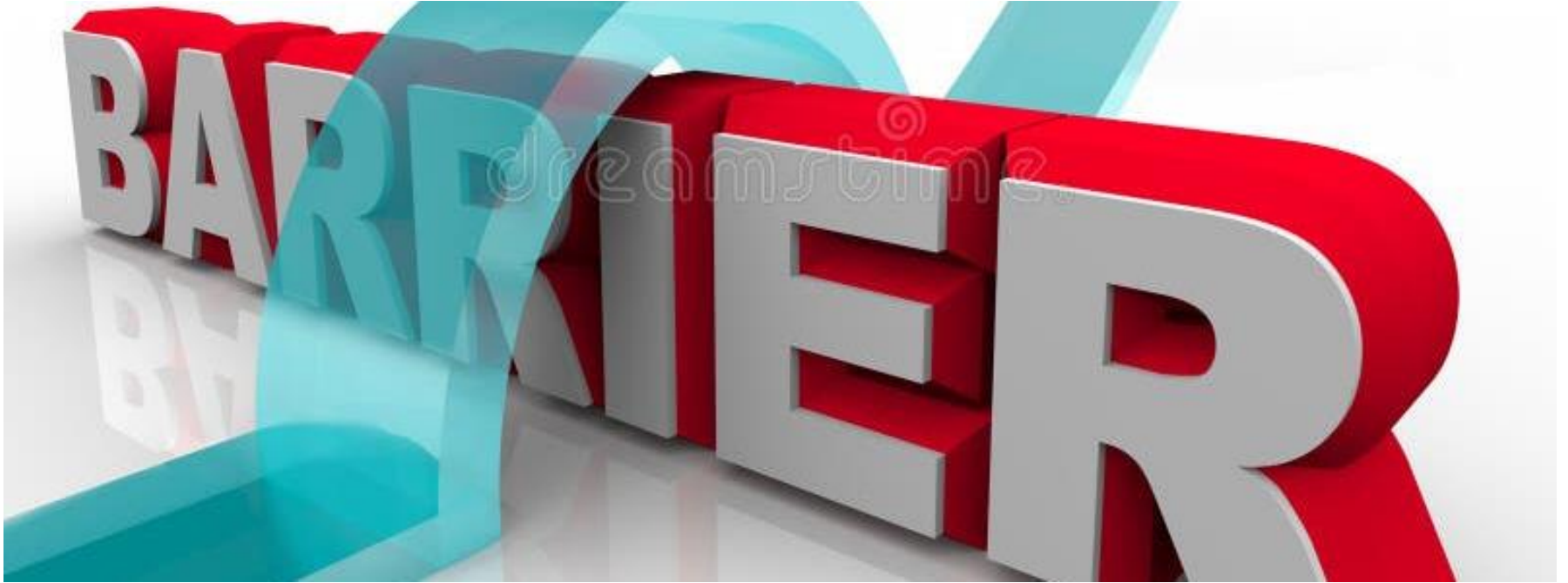
Top Tips for Direct Observation

- Start with clear objectives – maybe begin with 5 key history of shared decision making skills
- Make sure folks know it will be frequent and formative
- Identify existing tools/frameworks
- Take time to reflect on what you are learning along the way
- Make sure to train faculty and orient residents
- Do it frequent enough it becomes part of your culture



Karen E. Hauer, Eric S. Holmboe & Jennifer R. Kogan (2011) Twelve tips for implementing tools for direct observation of medical trainees' clinical skills during patient encounters, *Medical Teacher*, 33:1, 27-33, DOI: 10.3109/0142159X.2010.507710

What are the barriers?





Faculty

Lack of time

Lack of buy-in

Fear of undermining
learner/pt relationship

Low self-efficacy



Learners

Lack of faculty time

Lack of trust

Anxiety provoking

Threatens autonomy

Fear of high stakes assessment

Addressing the time barrier





Observe One Skill at a Time

Try to think about “holes” in your assessment systems.

What are the things you need to see more of or see better?

How can you structure your observations around those?



Observe One Skill at a Time

History

- Agenda setting
- Part of admission history
- Pre-rounds

Exam

- Part of exam
- Pre-rounds
- One maneuver

Counseling

- Post-rounds
- Discharge
- Starting medication
- Behavioral change
- Family meeting
- Code status
- Pre-rounds
- Anticipatory guidance

Procedures

- Consent
- Procedure
- Post-check



Observe One Skill at a Time

History

- Agenda
- Part of admission history
- Pre-rounds

3 things

Procedures

- Consent
- Procedure
- Post-check

- Anticipatory guidance



Challenges to Overcome

- Time Constraints
- Resource Limitations
- Resistance to Change
- Lack of Training and Development
- Balancing Multiple Roles
- Assessment Design Complexity
- Engagement and Motivation
- Assessment Fatigue
- Standardization Challenges



Strategies for Overcoming Challenges

- Gradual Implementation
- Resource Allocation
- Addressing Resistance
- Faculty Training and Development
- Customize Assessment Tools
- Utilize Technology
- Integration into Curriculum
- Transparent Evaluation Criteria
- Feedback Mechanisms
- Peer Collaboration
- Clear Communication and Buy-in



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Faculty Development Toolkit

Improving Assessment
Using Direct Observation



Our Direct Observation Toolkit

- Spreadsheet of skills- and which framework to use
- History (ACGME)
- Physical (Stanford 25)
- Shared decision making (ACGME)
- Difficult conversations (SPIKES)
- Counseling for Behavior Change (Univ. MN- Change that Matters framework)
- Frameworks available (paper/clipboard or online teams)
- Evaluation (quick and easy)
- Tracking tool on Teams so all preceptors can see what needs to be observed



Making tracking and Assessment easier



How to track your Direct Observations



How to use Milestone Elements (behavioral markers) in your Evals to help your CCCs



Preview Form
Printed on Jan 25, 2024

Direct Observation Evaluation form

[Insufficient contact to evaluate](#) (delete evaluation)

This is an on demand evaluation to be used for direct observation- can be used in hospital or clinic or simulation

1. Where did the observation take place?
 Clinic
 Hospital
 Simulation

2. Did you observe history taking? No ▼

4. Did you observe a physical exam? No ▼

6. Did you observe counseling for behavioral change? No ▼

8. Did you observe a difficult conversation? Yes ▼

9. If observing a difficult conversation, which type? Bad news ▼

10. Did you observe shared decision making? No ▼

12. What did you observe that went well? *

13. What did you observe that could be improved upon? *

Only as an Observer	With Direct Supervision	With Indirect Supervision	Independently	As an instructor of Junior Colleagues	N/A
I prefer to show you again	I'd prefer to see you do this again to demonstrate competence/confidence with skill	I am comfortable being available if you need me	I am comfortable with you doing this on your own	You are good to teach junior colleagues	
○	○	○	○	○	○

14. What entrustability scale would you apply to this observation?*

* Required fields * Option description (place mouse over field to view)

Direct Observation Worksheet

Skills to Observe	Framework (SMM) to use	Dr. Feelgood	Dr. Strange	Dr. Love	Dr. Frasier Crane	Dr. Evil
History						
New Patient	History	11/23 (3) MN				
Sexual History	History					
Medication Reconciliation	Medication Reconciliation					
Preventive/Wellness Visit	History		1/24 (4) MN			
Agenda Setting	History					
Other	History					
Physical Exam						
Neuro	Cranial Nerves Sheet					
Cardio	Cardiac					
Resp	Pulmonary					
MSK	Knee, Shoulder, Foot, LBP					
Abd	Abdomen					
Skin	Skin lesion					
GYN exam/Pelvic exam/Breast	Pelvic/Breast					
Osteopathic Structural Exam	Osteopathic					
General Wellness	Wellness					



Name	topic	Date	Observed	History exam plan
Ghani	PAD	5/6/24	4/16/24	MDM
Kao	Conel-tunne Tx. Dx	5/6/24	4/17/24	MDM
McGeagh	Types of skin biopsies	3/26/24	4/12/24	History
Pidakala	CKD Management	4/8/24	4/08/24	History
Lassiter			4/12/24	History
Page	Peronial neuropathy	4/24/24		
Rhine	diabetes workup (Type 1 + beyond) labs	5/6/24	4/17/24	MDM
Woods	MOD	3/21/24		
Bailey	Management of nasal dryness	4/15/24	4/9/24	making
Balan	Dementia screening in PC	4/19/24	4/08/24	MDM
Burgos Rossy	Painful conditions of the forearm	05/06/24		
Flageolle	Medical Management GERD	4/16/24	4/9/24	shared pt dec. making
rotator - Tripp	Anemia of chronic complaints	4/2/24		
rotator -				
rotator				

running tally

	Jan	Feb	Mar
Gold	14	3	5
Purple	10	5	3
Blue	15	7	-

gold	purple	blue	green

Didactic Topic Ideas

Multi-Cultural Discussion

QI Project

Program Director's Role

- **Vision and Strategic Planning**
Establish a clear vision for competency-based education
- **Advocacy and Communication**
- **Curriculum Integration**
Actively lead the integration of competencies into the curriculum
- **Faculty Training and Development**
Organize and facilitate faculty development related to competency-based assessments



Success is a moving target

- We started Direct Observation in October 2023
- The plan is to have 750 done by end of September 2024
- As of January 2024, we have done nearly 200 direct observations
- This is fine since we are ramping up and getting more comfortable. We plan to use direct observation in our simulation lab, POCUS and orientation with new interns.
- As of August 2024, we have done 775 Direct Observations



Conclusion

- Direct observation is a crucial assessment in competency-based medical education
- It is important to address inter-rater variability with your faculty – attempt to use an evidence-based frame of reference → Faculty Development is key
- Address Resistance and Concerns
- Use snapshots of observations to help address time barriers

