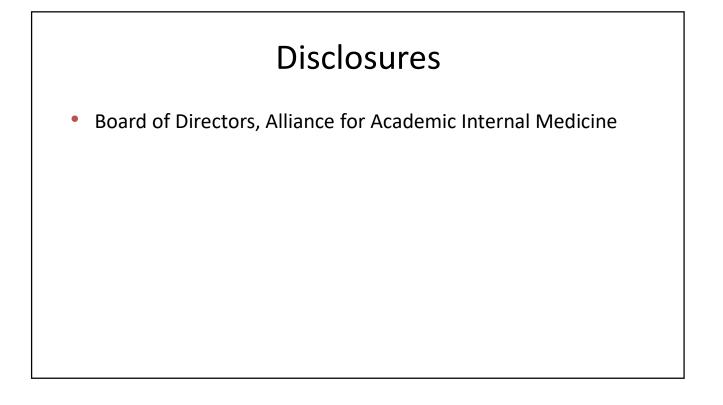
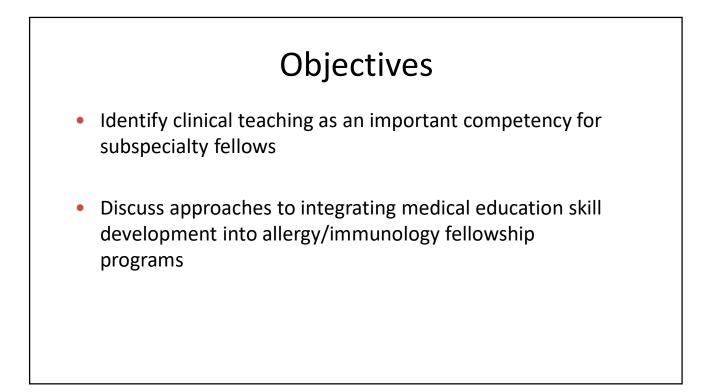
Training fellows to be educators

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Should teaching be a core competency of fellowship training?

- ACGME requirements
- Fellow interests and career paths
- Fellow teaching skills



Interpersonal and Communication Skills 2: Interprofessional and Team Communication					
Level 1	Level 2	Level 3	Level 4	Level 5	
Uses language that is respectful and values all members of the health care team	Communicates basic information effectively with all health care team members	Communicates highly complex information effectively with all health care team members	Optimizes flexible communication strategies using input from all team members to build consensus and resolve conflicts, as needed	Demonstrates leadership in promoting open and safe communication within and between teams	
Accepts feedback from team members	Solicits feedback on performance as a member of the health care team	Provides feedback to peers and other learners on the team	Communicates detailed and effective feedback to any member of the health care team	Educates others in providing effective feedback	
Systems-Based Practice	3: Physician Role in Healti	h Care Systems			
Level 1	Level 2	Level 3	Level 4	Level 5	
	Demonstrates use of information technology (e.g., electronic health record) needed for clinical	Demonstrates knowledge of current evaluation and management billing practices	Independently completes proper documentation and coding for a patient	Educates others on proper documentation, billing, and coding practices	

		ME Miles	JUILS	
Medical Knowledge 3:	Scholarly Activity			
Level 1	Level 2	Level 3	Level 4	Level 5
Identifies areas worthy of scholarly	Designs a scholarly activity with a mentor(s)	Engages in scholarly work, incorporates feedback, and	Produces scholarly work suitable for dissemination as an abstract or	Dissemination of independent scholarly work that has generated new medical knowledge,

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ACGME Milestones					
Systems-Based Practic	e 1: Patient Safety and Qual	Level 3	Level 4	Level 5	
Demonstrates knowledge of common patient safety events	Identifies system factors that lead to patient safety events	Participates in analysis of patient safety events (simulated or actual)	Conducts analysis of patient safety events and offers error prevention strategies (simulated or actual)	Actively engages teams and processes to modify systems to prevent patient safety events	
Demonstrates knowledge of how to report patient safety events	Reports patient safety events through institutional reporting systems (actual or simulated)	Participates in disclosure of patient safety events to patients and families (simulated or actual)	Discloses patient safety events to patients and families (simulated or actual)	Role models or mentors others in the disclosure o patient safety events	
Demonstrates knowledge of basic quality improvement methodologies and metrics	Describes quality improvement initiatives relevant to rheumatology practice	Participates in quality improvement initiatives relevant to rheumatology practice	Demonstrates the skills required to identify, develop, implement, and analyze a quality improvement project	Creates, implements, and assesses quality improvement initiatives a the institutional or community level	

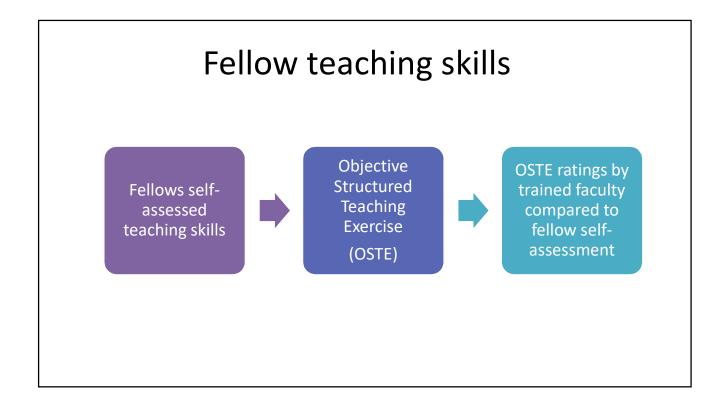
Academic center		35%
Basic science research		4%
Clinical research		7%
Clinician educator in A	MC	20%
Teaching		59%
Community practice		64%

Academic center	86%
Basic science research	35%
Clinical research	69%
Teaching	79%
Educational scholarship	22%
Administration	25%

	Agree or strongly agree	
	HMS fellows (N=183)	Rheumatology fellows (N=150)
I enjoy teaching residents and medical students	94%	94%
If I had more time I would do more teaching	95%	88%
My teaching skills can be improved I want to receive more feedback about my	93%	96%
teaching	74%	78%
I am interested in receiving training to		
improve my teaching skills	75%	82%

	HMS fellows (N=183)	fellows (N=150)
Training in education during residency?	67%	55%
Training in education during fellowship? Observed teaching experiences during	33%	36%
fellowship?	29%	n/a

Table 5 - Fellow perceptions of their teaching skills					
Skill	Definitely cannot	Probably cannot	Neutral	Probably can	Definite can
Teaching on the consult service					
Can you figure out how much the intern already knows about the disease?	(0%)	13 (7%)	44 (25%)	102 (58%)	18 (10%
Can you identify the major teaching points for this case?	1 (196)	1 (1%)	7 (4%)	100 (56%)	68 (38%
Can you teach effectively within the time constraints of a busy service?	1 (1%)	26 (15%)	47 (27%)	73 (41%)	30 (179
Can you give feedback to the intern about his/her approach to the patient thus far?	2 (1%)	17 (10%)	29 (16%)	99 (56%)	30 (17%
Giving a lecture to medical students					
None of the students are planning to enter your sub-specialty field. Can you convey the importance of your topic to the students' clinical training?	(0%)	(0%)	9 (5%)	108 (61%)	60 (34%
This is the second block rotation for the 3rd year students. Can you accommodate the students' differing clinical experiences?	(0%)	3 (2%)	35 (20%)	106 (60%)	33 (19%
Can you address the different learning styles of your students? (e.g. quiet learner, dominant learner, etc)	(0%)	21 (12%)	64 (36%)	69 (39%)	22 (13%
Teaching in resident case conference					
The disease presented is very rare. Can you take the disease-specific elements and generalize them to broader principles?	(0%)	5 (3%)	24 (14%)	111 (63%)	35 (20%
Some of the residents never speak up at conferences. Can you encourage participation from the quieter members?	1 (196)	30 (17%)	53 (30%)	73 (42%)	18 (10%)
A resident asks you a question that is unrelated to your dedicated topic. Can you keep the discussion focused on your key teaching points?	(0%)	4 (2%)	42 (24%)	104 (59%)	25 (14%)
The audience includes all PGY levels. Can you address the different levels of the residents?	(0%)	6 (3%)	43 (25%)	101 (58%)	24 (14%
You want to avoid asking questions that only test the recall of facts. Can you devise questions that evaluate your learners' ability to apply their knowledge to a clinical situation?	(0%)	8 (5%)	47 (27%)	92 (53%)	28 (16%

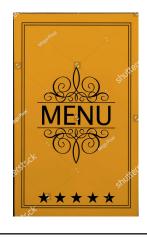


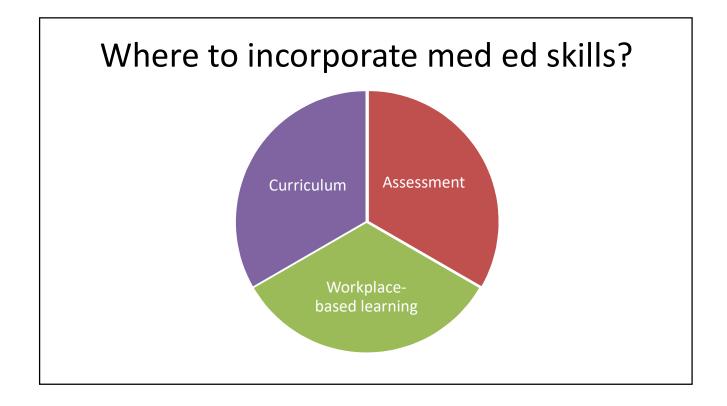
Fellow teaching skills

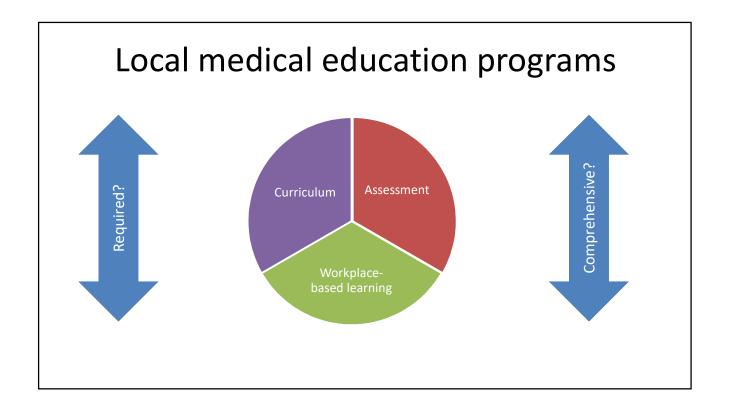
Item	Self-assessment mean	OSTE mean	correlation coefficient
Creating a positive			
learning environment	4.22	3.72	(0.06)
Learner assessment	3.39	3.06	(0.10)
Presenting material	3.57	4.14	0.04
Giving feedback	3.22	3.76	0.31
Overall	3.39	3.68	0.13
	N = 25		Unpublished

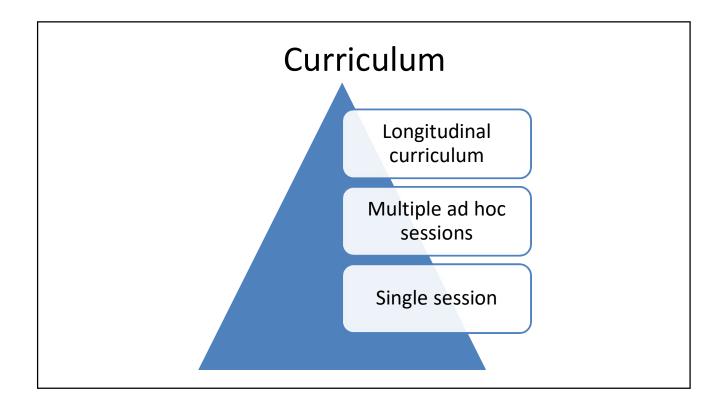
Education | Opinion

Op-ed: Good teachers are made, not born



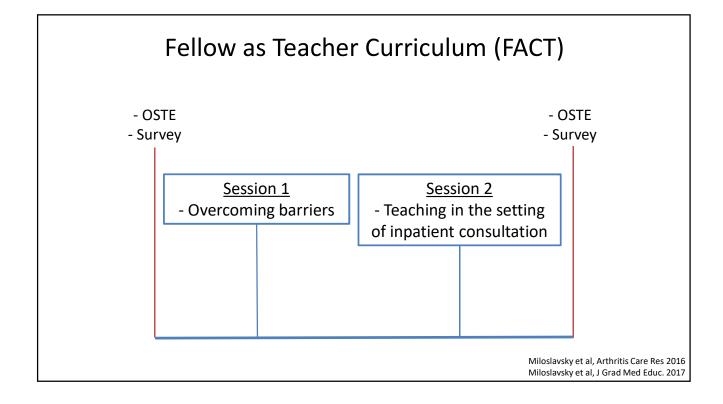






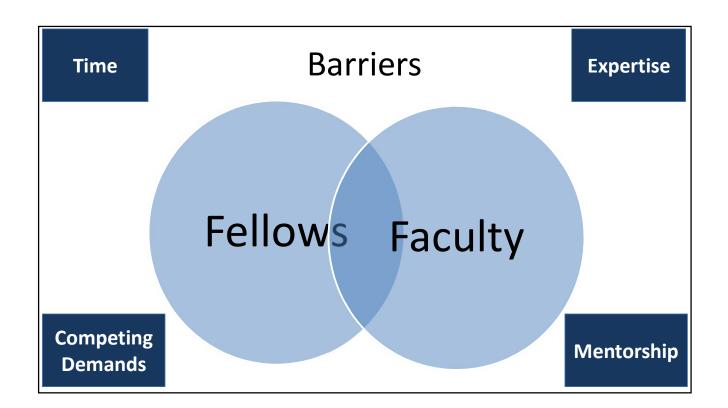
Curriculum

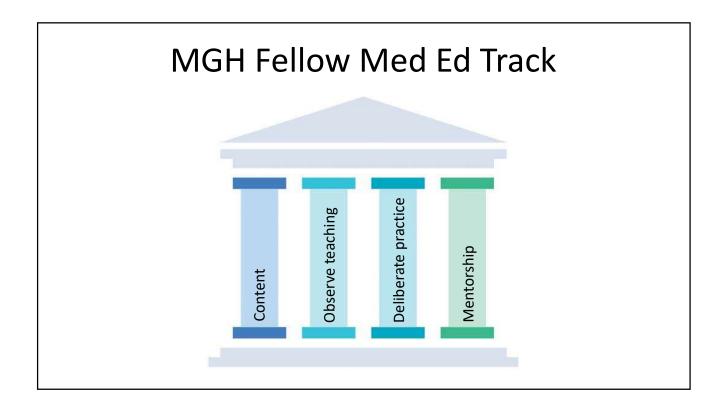
- Department of Medicine
 - Resident as Teacher course
 - Faculty development sessions
 - Grand rounds
- Fellowship curriculum
 - Single session
 - Longitudinal curriculum
- Division grand rounds or teaching retreat
- Outside resources
 - Harvard Macy
 - Medical education masters

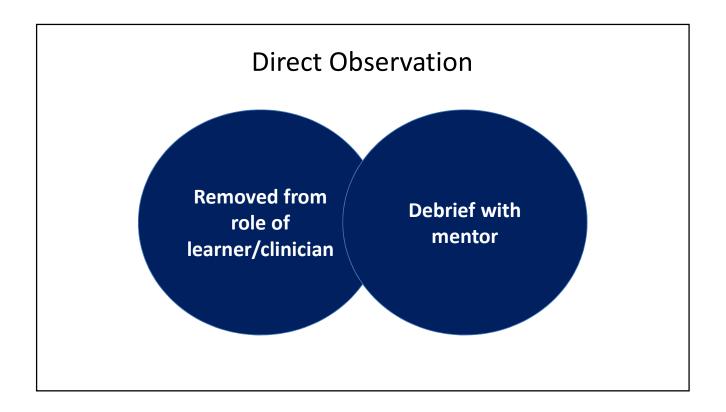


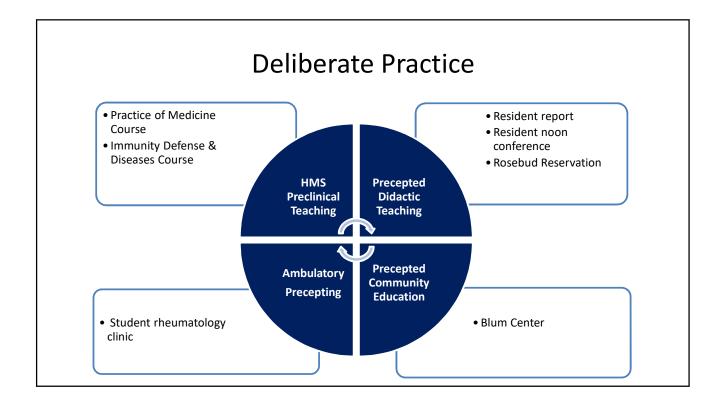
FACT - r	FACT - results					
Item	Pre	Post	End	P-value (pre-post)		
Oriented learner	3.01	3.76	3.90	<0.01		
Evaluated learner's knowledge	3.35	4.10	4.46	<0.01		
Evaluated learner's ability to analyze	3.31	4.05	4.27	<0.01		
Determined effective objectives	3.79	4.29	4.84	<0.01		
Presented well organized material	3.94	4.66	4.77	<0.01		
Effectively managed time during session	3.90	4.53	4.48	<0.01		
Provided positive feedback	3.97	4.72	4.88	<0.01		
Provided corrective feedback	3.64	4.68	4.50	<0.01		
Relayed recs and closed the loop	3.88	4.52	4.67	<0.01		
Overall teaching effectiveness	3.45	4.33	4.29	<0.01		
N = 12			1	Viloslavsky et al, J Grad Med E	Educ. 2017	

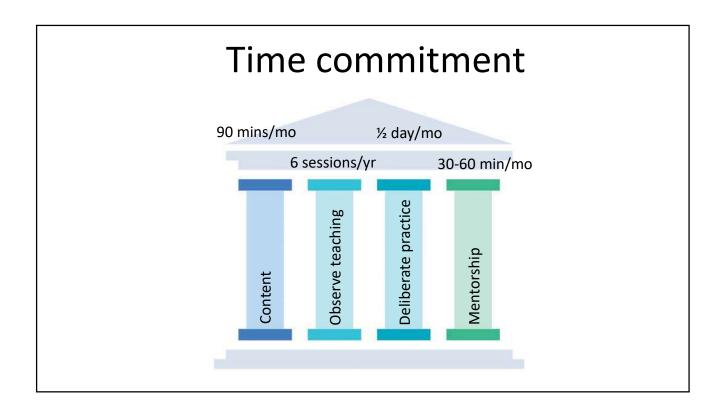
Longitudinal programs

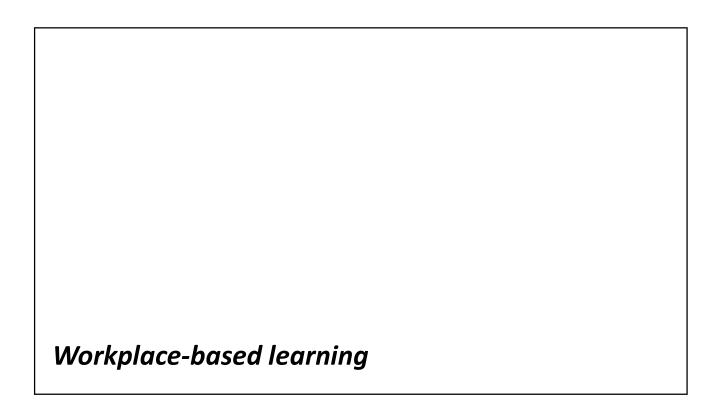












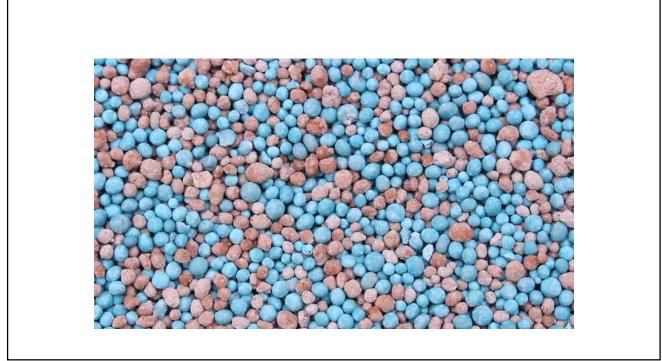
Barriers to effective workplace-based teaching

- Time
- Expectations
- Perceptions
- Experience
- Lack of feedback
 - Attendings
 - Primary teams



Miloslavsky et al, Medical Education 2015

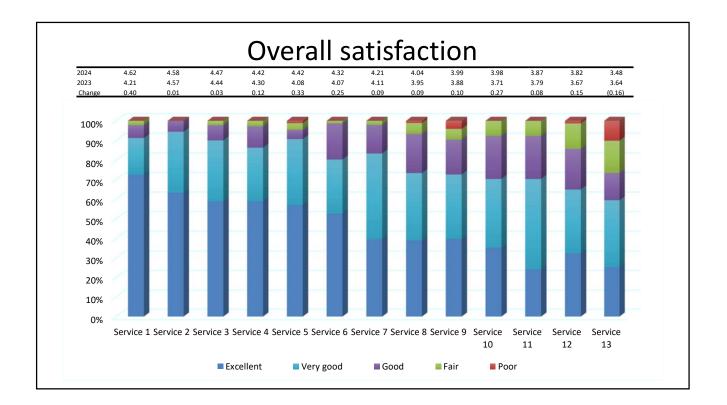


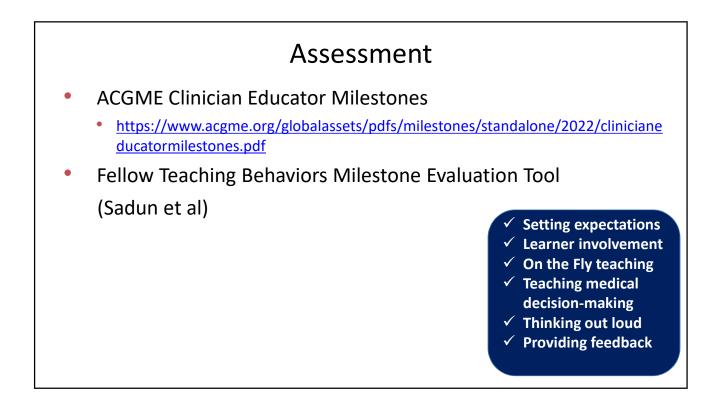


Subspecialty consult survey items

- Rate your overall satisfaction with the X consult service.
- Rate the quality of communication b/w your team and the X consult team.
- How often do you receive pushback...when you initially call the consult?
- Rate the teaching you receive from fellows on X service.
- Provide feedback to individual fellows (free text)

Miloslavsky and Chang, J Grad Med Educ 2019





Summary

- Fellows recognize the importance of teaching in their career
- There is strong interest among fellows in opportunities to enhance their teaching skills
- Incorporation of skills should be tailored to the resources available at your institution
 - Curriculum
 - Workplace-based learning
 - Assessment

