

Update from the AAMC Core EPA Pilot:

EPA Toolkits for curricular interventions, student engagement, faculty development, and assessment modalities.

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Lead



Session Structure

- Large group presentation (25 min)
 - Core EPA Concepts and Pilot Overview
 - Supervision Level Assessment
 - One-page EPA schematics
 - Clerkship Practical Implementation
- Q & A (10 min)
- Small group work (20 min)
 - Using the provided toolkit, how might you incorporate the EPA framework for
 - curricular interventions
 - student engagement
 - faculty development
 - student assessment
- Report out from small groups (20 min)
- Wrap up and next steps (15 min)



Ensuring Learners are Prepared to Transition to Graduate Medical Education

















Competency-based Education:

"What are the <u>abilities</u> needed of graduates?"



Van Melle's Core Components of CBME

CBME Critical Activities

FRAMEWORK

Competencies required for practice are clearly articulated

PROGRESSION

Competencies and their developmental markers are sequenced progressively



TAILORED EXPERIENCES

Authentic, work-based learning environments organized to facilitate the developmental acquisition of competencies

COMPETENCY-FOCUSED INSTRUCTION Teachers who act as coaches in a way that promotes the developmental acquisition of competencies

PROGRAMMATIC ASSESSMENT Assessment practices support & document the developmental acquisition of competencies



Entrustable Professional Activities = EPAs

...a task of professional practice that can be entrusted to a sufficiently competent learner...

- Observable
- Pragmatic
- Authentic
- Individual
- Level of supervision



Competencies vs EPAs

Competencies	EPAs
 An individual professional's abilities Knowledge, skills, attitudes 	 A discipline's essential professional work tasks Abilities at a stage of development
E.g. ACGME, CanMEDS, UK GMP, etc.	E.g. AAMC: Conduct a hx & px (1), Present a case orally (6)
A spectrum	A progression



Entrustment

A decision to delegate a task with a defined level of supervision

- Ad-hoc entrustment = daily
- Summative entrustment = formal



Entrustment

Categories that MAY Impact Ad Hoc Entrustment Decisions

- 1) The TRAINEE
- 2) The SUPERVISOR
- 3) The CONTEXT/CIRCUMSTANCE
- 4) The TASK or ACTIVITY
- 5) The RELATIONSHIP between Trainee-Supervisor



Trustworthiness of the Learner

Knowledge and Skill Discernment **Trustworthiness** Conscientiousness Truthfulness



Trustworthiness: Foundational to performance of all EPAs¹

Entrustment for any EPA Is the point at which learners possess the requisite knowledge, skills, and attitudes needed to perform the EPA and demonstrate specific elements of trustworthiness

Trustworthy

Habits

Key Functions

Discernment:

Awareness of the limits of one's clinical knowledge and skill

Conscientiousness:

Thoroughness and dependability in following through with assigned tasks

Demonstrate an appropriate balance of

Behaviors Requiring Corrective Response

Does not seek or acknowledge limits

Overly confident

Jumps to conclusions

Nealects to follow protocols

Is disorganized or neglects important details

Fails to follow through

Misleads, misrepresents, or purposefully omits important information

Appears willfully insensitive

→ Developing Behaviors → (Learner may be at different levels within a row)

Seeks to understand one's own role and how/when to seek help

Demonstrates understanding of one's own role, its limits, and how and when to seek help

Follows a simple template or guide

Is unable to apply past experience. May have difficulty

Generally completes assigned tasks on time.

Does not demonstrate

deceit, though may

not understand what

information needs to

templates and guides Is able to organize aspects of common situations. though may still become disorganized with

Applies a variety of simple

increased load or complexity

Consistently completes assigned tasks on time.

Expected Behaviors for an Entrustable Learner

Accepts advancing responsibility while appropriately recognizing one's own limits and seeking help when needed Follows protocols in a variety of different clinical contexts

Is mostly organized. Identifies and prioritizes tasks, though may demonstrate lapses in times of stress

Is self-motivated. Almost always completes duties thoroughly and on time

Is truthful

Demonstrates Sensitivity

Is a trusted source of relevant, accurate information

Conveys important truths sensitively even when unwelcome

Truthfulness:

truth and tact

May lack tact or be insensitive to the effects of the truth

be shared

References: 1. Brown, Warren, Hyderi, et al. Acad Med. 2017;92:774–779. 2. Kennedy, Reger, Baker, Lingard. Acad Med. 2008 Oct;83(10 Suppl):S89-92.



Core EPA Implementation Pilot

 Pilot group first assembled in Washington, DC in October 2014

Implemented initial student activities in 2015 for

those graduating in 2019

Targeting summative entrustment decisions for that same cohort graduating in 2019



Core EPA Pilot Guiding Principles

- 1) Systems Approach
- 2) Measure Attributes of Trustworthiness
- 3) Longitudinal View of Performance
- 4) Multimodal Performance Evidence
- 5) Incorporate Ad Hoc Entrustment Decisions
- 6) Entrustment Committee Process
- 7) Formative Feedback
- 8) Engaged Learners
- 9) Standardized Expectations



Supervisory Scale

Based on this student's performance, the level of supervision this student currently requires is:

- ☐ "Watch me do this"
- ☐ "Let's do this together"
- □"I'll watch you"
- "You go ahead, and I'll double-check all of your findings"
- ☐ "You go ahead, and I'll double-check key findings."



Ad Hoc Trust > Independence

Coactivity Scale

How Much Supervision Did the Learner Require for this Team Activity?

- □"I did it"
- □"I talked them through it"
- □"I directed them from time to time"
- □"I was available just in case"

https://www.aamc.org/initiatives/coreepas/publicationsandpresentations/



Summative Entrustment Decisions

School-Specific Attributes that Facilitated Implementation of Guiding Principles:

- 1) Structures for longitudinal relationships
- Portfolios that allow tracking of competency data
- Analytic systems that allow the aggregation of competency assessment data into dashboards
- Learner handovers across educational settings within UME

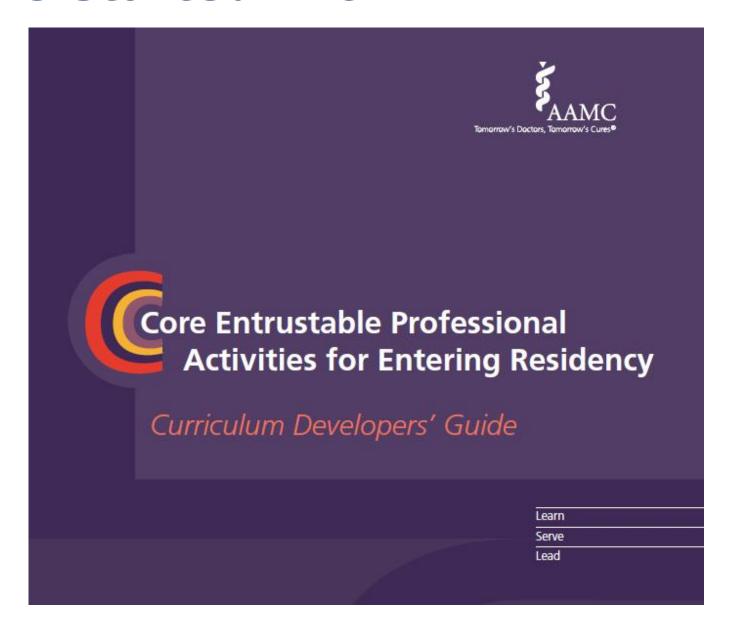


Pilot best practices and next steps

- Ad hoc workplace-based assessment (WBA) via mobile technology
- E-repository
- Dashboards
- Narrative data
- Attention to entrustment committee structures and processes



We started with...





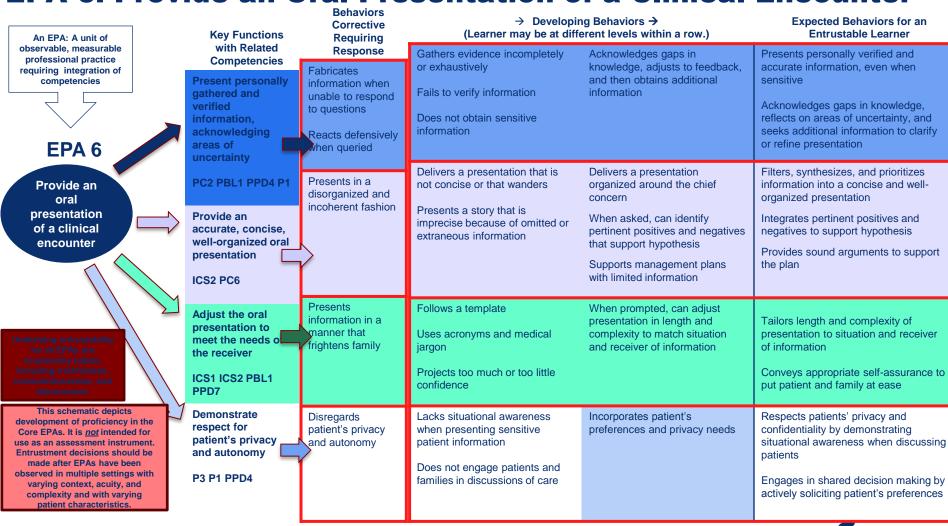
And now...







EPA 6: Provide an Oral Presentation of a Clinical Encounter

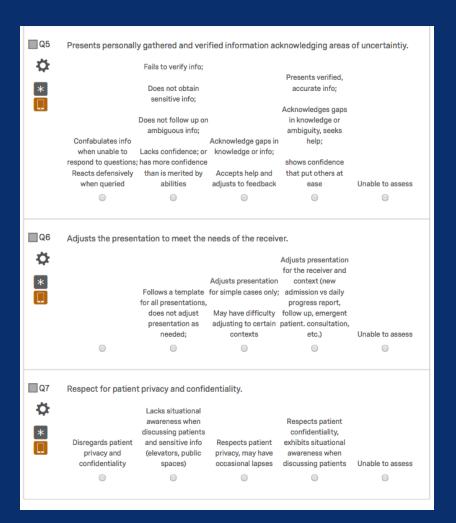


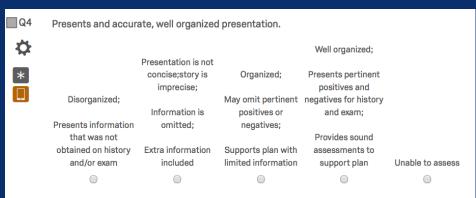
FM Clerkship Implementation at FIU

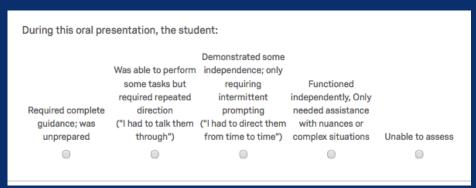
- Pilot with EPA 1, 6, 9, 11
- Adhoc brief assessments using iPads
- Student training: During clerkship orientation, midpoint feedback meetings
- Faculty training: Via newsletter, emails, in person visits using EPA one-pager overview
- Supervisory scale also included in our clerkship clinical assessment



FM Clerkship Implementation at FIU













EPA 4: Enter and Discuss Orders and Prescriptions

→ Developing Behaviors → **Expected Behaviors for an Behaviors** An EPA: A unit of (Learner may be at different levels within a row.) observable, measurable **Key Functions with** Requiring **Entrustable Learner** professional practice Corrective Related Does not recognize when to tailor or Recognizes when to tailor or deviate Routinely recognizes when to tailor requiring integration of or deviate from the standard order Competencies Response deviate from the standard order set from the standard order set competencies Unable to compose or Compose orders Orders tests excessively (uses shotgun Completes simple orders enter electronic orders efficiently and Able to complete complex orders approach) or write prescriptions Demonstrates working knowledge of effectively verbally, on requiring changes in dose or (or does so for the May be overconfident, does not seek how orders are processed in the paper, and electronically frequency over time (e.g., a taper) wrong patient or using review of orders workplace an incorrect order set) Undertakes a reasoned approach to PC6 PBLI1 EPA 4 Asks questions, accepts feedback placing orders (e.g., waits for Does not follow contingent results before ordering established protocols more tests) for placing orders Recognizes limitations and seeks **Enter and** Demonstrate an Lacks basic knowledge discuss Has difficulty filtering and synthesizing Articulates rationale behind orders Recognizes patterns, takes into needed to guide orders understanding of the orders and information to prioritize diagnostics and account the patient's condition patient's condition that May not take into account subtle signs prescriptions Demonstrates therapies when ordering diagnostics and/or underpins the provided or exam findings guiding orders defensiveness when therapeutics orders Unable to articulate the rationale behind questioned orders Explains how test results influence PC5 PC2 clinical decision making Recognize and avoid Discounts information Underuses information that could help May inconsistently apply safe Routinely practices safe habits errors by attending to obtained from prescription-writing habits such as when writing or entering avoid errors double-check of patient's weight, age, prescriptions or orders patient-specific factors, resources designed to Relies excessively on technology to using resources, and avoid drug-drug renal function, comorbidities, dose highlight drug-drug interactions and/or Responds to EHR's safety alerts interactions and/or interval, and pharmacogenetics appropriately risks (e.g., smartphone or EHR suggests and understands rationale for them when applicable responding to safety an interaction, but learner cannot explain Fails to adjust doses Uses electronic resources to fill in alerts when advised to do so relevance) gaps in knowledge to inform safe by others PBLI7 order writing (e.g., drug-drug Ignores alerts interactions, treatment guidelines) This schematic depicts development of proficiency in the Core EPAs. It is not intended for Places orders and/or Discuss planned orders Places orders without communicating Modifies plan based on patient's Enters orders that reflect use as an assessment instrument. prescriptions that with others; uses unidirectional style preferences bidirectional communication with and prescriptions with Entrustment decisions should be directly conflict with ("Here is what we are doing ... ") patients, families, and team team, patients, and made after EPAs have been May describe cost-containment efforts patient's and family's observed in multiple settings with families Does not consider cost of orders or Considers the costs of orders and as externally mandated and interfering health or cultural beliefs varying context, acuity, and **ICS1 SBP3** patient's preferences with the doctor-patient relationship the patient's ability and willingness complexity and with varying patient to proceed with the plan characteristics.

FM Clerkship Implementation at OHSU

Key Functions with Related Competencies

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Compose orders efficiently and effectively verbally, on paper, and electronically

PC6 PBLI1

Demonstrate an understanding of the patient's condition that underpins the provided orders

PC5 PC2

PBLI7

Recognize and avoid errors by attending to obtain resources, and appropriately responding to safety alerts

Discount of the country resources, and appropriately responding to safety alerts

Discountry resources, and avoid appropriately responding to safety alerts

Discuss planned orders and prescriptions with team, patients, and families ICS1 SBP3

	EHR ICS5 OHSU Famil	v Medicine Clinical	Experience	Competency	/ Tool
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Family Medicine Core Courses
Student Name

OHSU SOM Competency: Interpersonal and Communications Skills #5

Effectively access, review, and contribute to the electronic health record (EHR) for patient care and other clinical activities

Pre-Entrustable	Consistently reviews a Review Past Labs
May neglect to review parts of the EHR or verify its accuracy	Consistently reviews a NEVIEW Past Labs
with external sources. May neglect to inform the team of EHR	accuracy of the intermetion as appropriate.
errors or omissions. Documentation in early development, and	Documentation is accurate and comprehensive and
may be incomplete, or does not routinely include all important	tailored t
data and/or communicate clinical reasoning. Chooses	are tailor informatic Review/Update History
templates without adequate alteration, possibly including no	information in the view of the
longer accurate or incorrect information. Documentation may	consistently is able to pend accurate and appropriate
take an excessive amount of time to be finalized and	orders. Clinical reasoning is well documented.
submitted. May be able to verbalize desired orders, but is not	Documentation is complete
reliably able to pend accurate orders in the EHR.	fashion. Review Allergies
	TOTION Allergies
	lel con last

→ Measure: Diabetes Workshop Simulated Electronic Health Record Chart Work and Notes.

Ele	ment of EHR clinical activity	Unsatisfactory	_ _	- O	
1.	Completed in timely fashion (must pass)		Lab	s Ord	ered
2.	Reviewed past labs and included them in medical decisions (2 points*)				
3.	Reviewed history and accurately updated in chart				
4.	Reviewed allergies and documented		N/II -	0	
5.	Documented vitals in note		weas	Orde	ered E
6.	Lab orders accurately ordered/pended				
7.	Immunizations accurately ordered/pended				
8.	Medications for treatment accurately ordered/pended				
9.	Problem list of EHR accurately updated	Clin	Clinical Reasoning		
10.	Clinical reasoning well documented (must pass)	J	.Jai i	.5456	9
11.	Documentation was accurate, comprehensive, and specific to patient				
12.	Templates tailored: include only accurate and pertinent information				
13.	Follow up plan documented		-41	4 Excel	
	Clear lay language patient instructions written (2 Points*)	Pa	atieni	t Expl	anatic

Scoring: Satisfactory= 1 point, Some Evidence= ½ Point. To pass: Satisfactory completion of Notes:



FM Clerkship Implementation at OHSU

- SOM curriculum transformation to competency based model
- Shortened core from 5-4 weeks
- Clerkships asked to define their contribution to the curriculum in outcomes language
- Upon completion of the FM clerkship, all students will possess a thorough, deep and personal understanding of the specialty of Family Medicine.
 - Competencies and Educational Activities (EAs)
 - Current and new educational sessions to "double dip"
 - Common CBE framework lead to easy integration with institutional and national CBE efforts

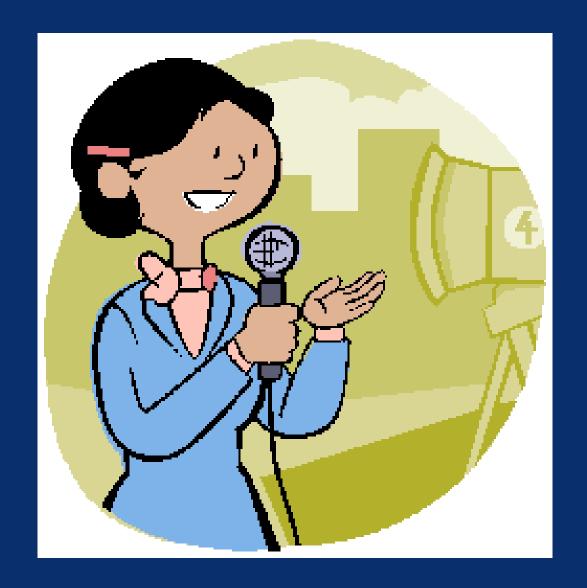


Break into groups.....

- Take one minute per person to introduce yourself and summarize where you and your organization are in regards to the EPAs
- Using the provided toolkit, how might you incorporate the EPA framework for curricular interventions, student engagement, faculty development, and student assessment
- View Toolkits: <u>https://www.aamc.org/initiatives/coreepas/publicationsandpresentations/</u>



Report out





Wrap-up and Q and A









AAMC Core EPA Resources

https://www.aamc.org/initiatives/coreepas/publications/nsandpresentations/

EPA Toolkits including one-page schematics Supervisory Scale Task Force Report Manuscripts

To subscribe to the AAMC Core EPA listserve, send a blank email to subscribe-coreepas@lists.aamc.org



Acknowledgment: Pilot Schools

- Columbia University College of Physicians and Surgeons
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- Michigan State University College of Human Medicine
- New York University School of Medicine
- Oregon Health & Science University School of Medicine
- University of Illinois College of Medicine
- University of Texas Health Science Center at Houston
- Vanderbilt University School of Medicine
- Virginia Commonwealth University School of Medicine
- Yale School of Medicine

