# Progress of Trust:

How do you evaluate your trainees in everyday practice?

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Original Publication

# Entrustable Professional Activities: A Faculty Development Workshop for Adding EPAs Into Your Medical Trainee's Assessment Portfolio

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**Abstract** 

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### Objectives

- Understand competency based education models
- Describe use of entrustable professional activities (EPAs) in assessment of competency progression in interdisciplinary residency training

### Outline

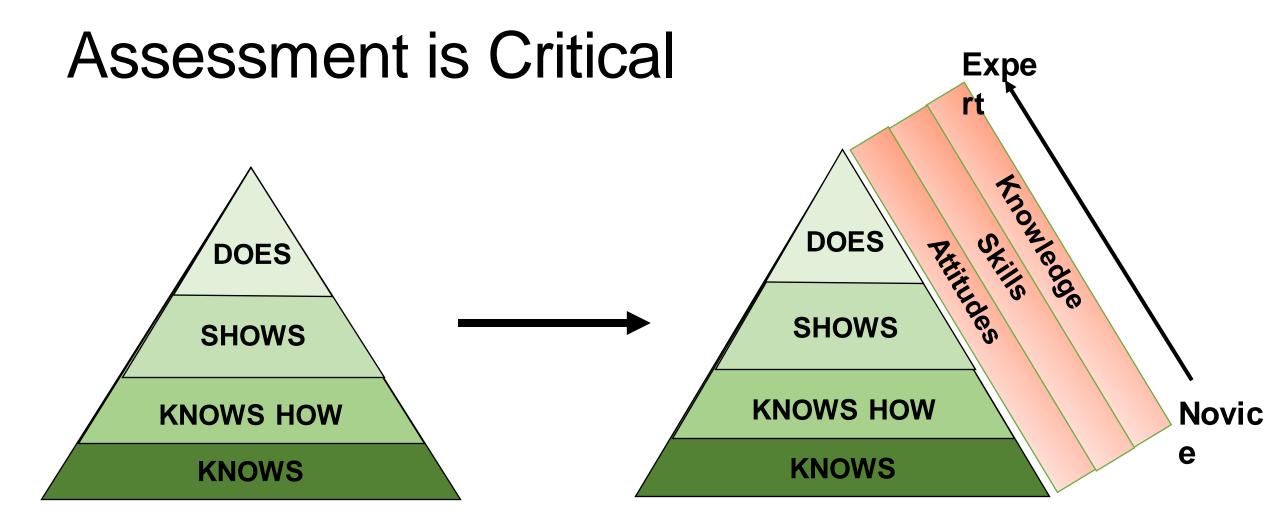
- Brief history of competency based medical education
- •ACGME competencies and milestones
- EPA's and their assessment
- Examples of competency based education in pediatrics and pharmacy

## Time-Based Teaching Model

- Unit of Progression: Time
- Teacher-Centered
- Knowledge Acquisition
- Locally Defined Objectives

#### Outcome-Based Model

- Unit of Progression: Mastery
- Learner-Centered
- Knowledge Application
- Community-Based Objectives



Miller 1990 Snell 2010 Tekian 2015 ten Cate 2015

## ACGME Competencies & Milestones

- 1. Medical Knowledge
- 2. Patient Care
- 3. Professionalism
- 4. Interpersonal Communication
- 5. Practice-based Learning: personal improvement
- 6. System-based Practice: system improvement

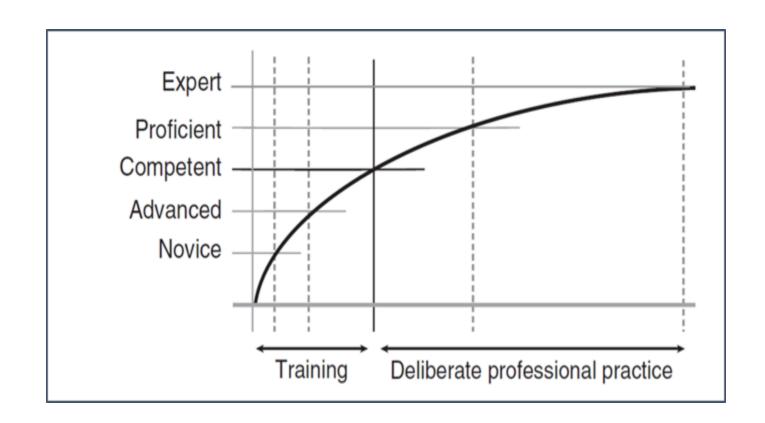
### Milestones Examples

Patient Care 1: History				Medical Knowledge 2: Diagnostic Evaluation					
Level 1	Level 2	Level 3	Level 4	Level 5	Level 1	Level 2	Level 3	Level 4	Level 5
Gathers information strictly following a template	Adapts template to filter and prioritize pertinent positives and negatives based on broad diagnostic categories or possible diagnoses	Filters, prioritizes, and synthesizes the history to develop a differential diagnosis in real-time for uncomplicated or typical presentations	Filters, prioritizes, and synthesizes the history to develop a differential diagnosis in real time for complicated or atypical presentations	Recognizes and probes subtle clues from patients and families; distinguishes nuances among diagnoses to efficiently drive further information gathering	Lists basic evaluation (e.g., diagnostic testing and consultation) for common diagnoses, with prompting  Reports results of	Recommends broad evaluation based on an unfocused differential diagnosis	Recommends focused evaluation based on a prioritized differential diagnosis	Prioritizes and optimizes evaluation based on risks, benefits, indications, and alternatives to clarify the diagnosis(es)  Interprets clinical	Educates others about risks, benefits, indications, and alternatives to guide diagnostic decision making  Teaches others to
					diagnostic studies	significant diagnostic study results, with	significance of diagnostic study results	significance of diagnostic study results	interpret clinically significant results and
Comments:			Not Yet C Not Yet A	ompleted Level 1		guidance	study results	while considering study limitations	consider study limitations
					Comments:				
Patient Care 5: Patient Management					Not Yet Completed Level 1  Not Yet Assessable				
Level 1	Level 2	Level 3	Level 4	Level 5	Systems-Based Practice	2. Ouelite Impressement			
	Participates in the	Develops an	Develops and	Serves as a role model	Systems-based Practice	2: Quanty improvement			
plans developed by others	creation of management plans	interdisciplinary management plan for	implements informed management plans for	and coach for development of	Level 1	Level 2	Level 3	Level 4	Level 5
		common and typical diagnoses	complicated and atypical diagnoses, with the ability to modify plans as necessary	management plans for complicated and atypical diagnoses, with the ability to modify plans as necessary	Demonstrates knowledge of basic quality improvement methodologies and metrics	Describes local quality improvement initiatives (e.g., community vaccination rate, infection rate, smoking cessation)	Participates in local quality improvement initiatives	Demonstrates the skills required to identify, develop, implement, and analyze a quality improvement project	Creates, implements, and assesses quality improvement initiatives at the institutional or community level
Comments:			Not Yet C Not Yet A	ompleted Level 1	Comments:			Not Yet Co	ompleted Level 1

### On-Going Assessment Challenges & Gaps with CBME

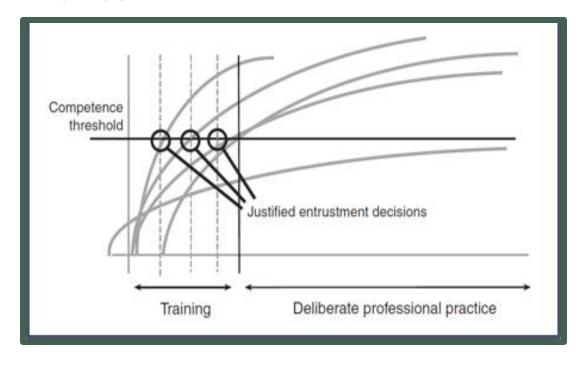
- Individual milestone achievement ⇒ ability to practice patient care
- Fail to match daily clinical work
- Do not allow for in situ direct observation.
- No assessment of integration or application to:
  - Novel patient cases
  - Different clinical contexts

### Development of the Trainee as a Professional

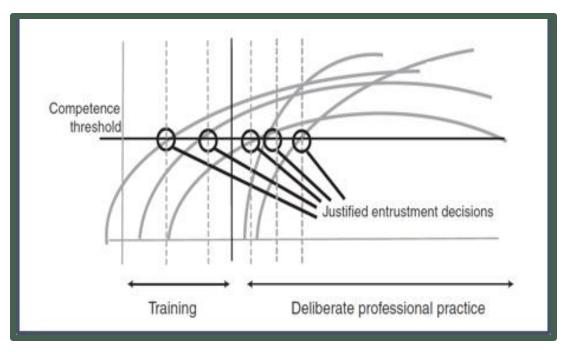


## Reality...

#### Trainee A



#### Trainee B



### Possible Solution...

- Cluster milestones for practical assessment
- Incorporate decision of trust or independence

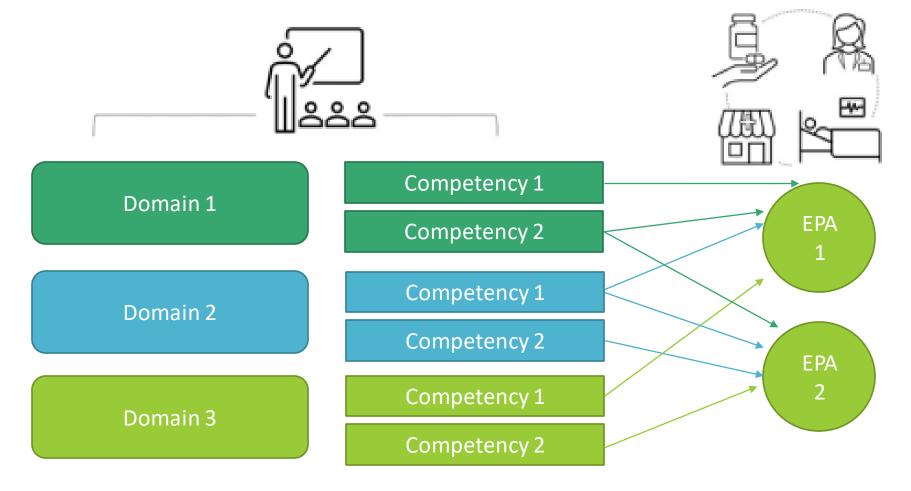


### Social Influence

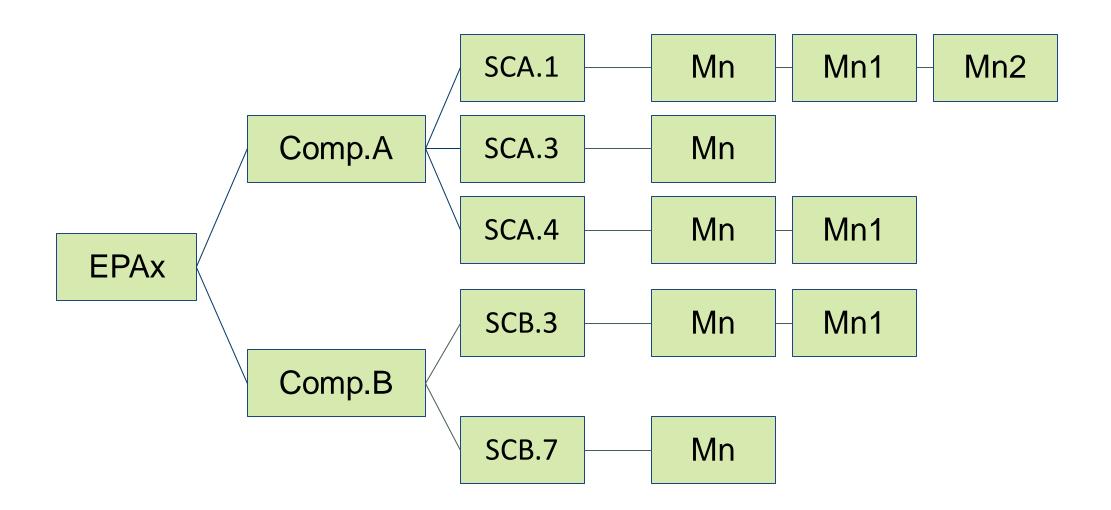
"Competencies can be operationalized and assessed by linking them with professional activities"

### Defining Entrustable Professional Activities

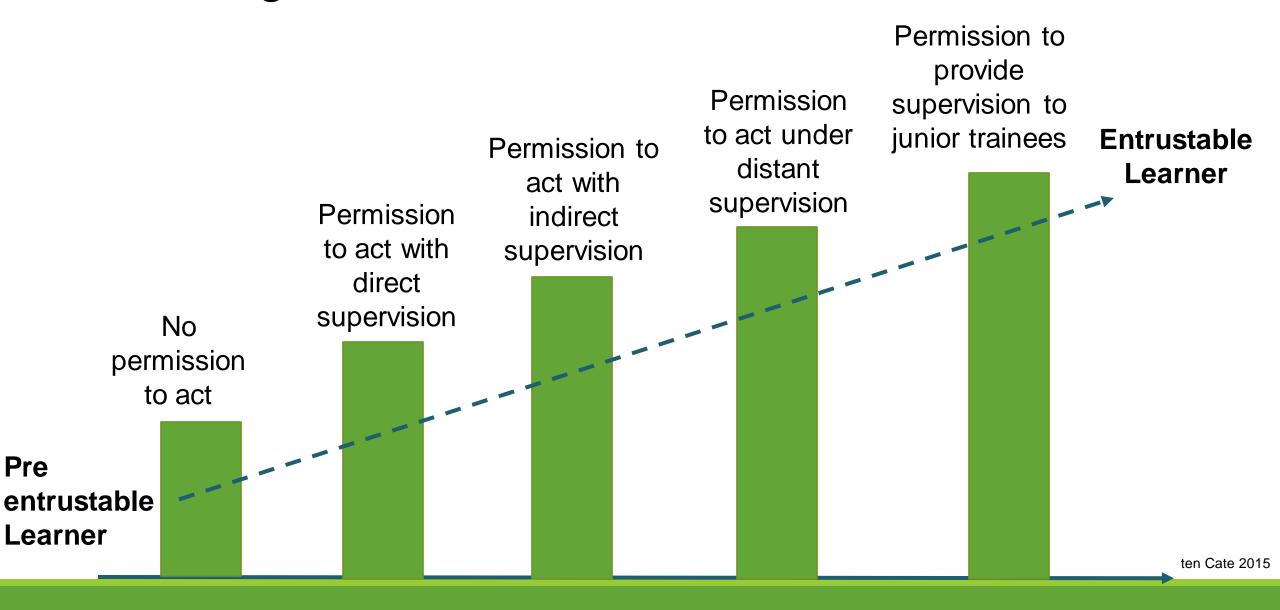
- Medical education outcomes
- Defined as critical professional activities
- A provider is entrusted to perform
- Integration of knowledge, skills & attitudes



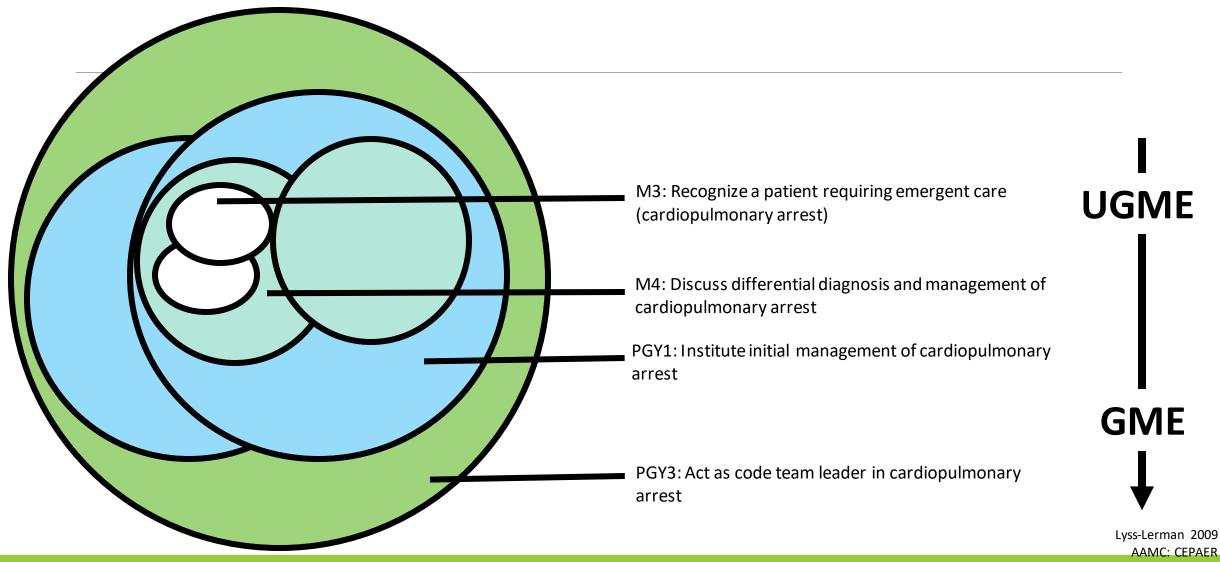
	Competency/Learning Objective	Entrustable Professional Activities
Context	Classroom	Workplace
Represents	Granular definitions of what is a good practitioner	Day to day work
Assessment	Traditional (exams, etc.)	Supervision of activities
History	Long history of how we think about learnes	New and intended for residency-to-practice transition



### Assessing EPAs: Entrustment Decisions



#### Using EPAs to Assess the Continuum of Training

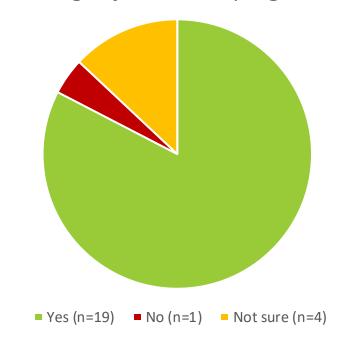


# Preceptor and Resident Perceptions of EPAs for Postgraduate Pharmacy Training

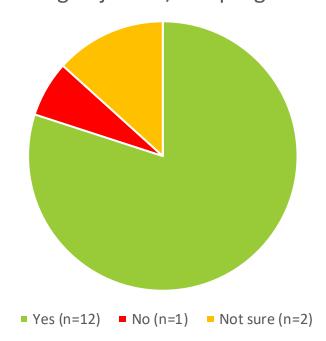
Traditional Summative Evaluation Scale	EPA Rating Scale
NI = Needs Improvement	Level 1: Resident is trusted to only observe this skill even with direct supervision
SP = Satisfactory Progress	Level 2: Resident is trusted to perform this skill with direct, proactive supervision
ACH = Achieved	Level 3: Resident is trusted to perform this skill with reactive supervision (i.e. preceptor is available quickly on request)
	Level 4: Resident is trusted to perform this skill with supervision at a distance or after completion of the activity
	Level 5: Resident is trusted to teach this skill to more junior colleagues

# Preceptor and Resident Perceptions of EPAs for Postgraduate Pharmacy Training

**Preceptor**: EPA rating scale helpful for assessing learning objective/skill progression



**Resident**: EPA rating scale helpful for assessing learning objective/skill progression



3/4 of preceptors and 2/3 of residents agreed that the EPA rating scale is more helpful compared to a traditional rating scale (e.g. needs improvement, satisfactory progress, needs improvement)

