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Closing the Communication Gap: Alignment of Competency Performance Levels Between UME and GME

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Closing the Communication Gap: Alignment of Competency Performance Levels Between UME and GME

Anita Wilson, PhD, Katherine Berg, MD, Aaron Douglas, PhD, John Caruso, MD, Gretchen Diemer, MD, Kathleen Day, MS, Rosemary Frasso, PhD, Steven Herrine, MD, David Abraham, PhD

Sidney Kimmel Medical College, 2024

Purpose and Background

Graduate medical education (GME) program directors receive a minimal amount of information from the undergraduate medical education (UME) programs regarding an intern's specific level of competence. This project's purpose was to align the local undergraduate competency-based medical education program objectives (MEPOs) and GME outcomes measured during intern year. Previous studies show the gap in communication between UME and GME exists due to a lack of a shared mental model regarding competency performance.^{1, 2}

Methods

During the summer of 2023, the authors used a modification of the Delphi approach to develop consensus among educators regarding the alignment between the UME MEPOs and Accreditation Council for Graduate Medical Education (ACGME) Harmonized Milestones sub-competencies.³ The project participants were 13 of 18 members of a subcommittee of the curriculum committee on programmatic outcomes and competencies at Sidney Kimmel Medical College with expertise in many areas (See Table 1). The number of rounds (3) and consensus (70% agreement) were determined a priori.



Approximately 57% (N = 46) of the alignment decisions showed an association between the local undergraduate medical education program objectives (MEPOs) and Accreditation Council for Graduate Medical Education (ACGME) Harmonized Milestones sub-competencies.

Table 1: Delphi Participant Demographics by Round

Group	Rou	nd 1	Rou	und 2	Roı	und 3	
	N	%	N	%	N	%	
Expertise							
Assessment	3	23%	3	25%	2	18%	
Basic Science	4	31%	4	33%	4	37%	
Clinician	4	31%	3	25%	3	27%	
Clinical Skills	1	8%	1	8%	1	9%	
Educational							
Technology	1	8%	1	8%	1	9%	
Educator							
Both	4	31%	2	17%	2	18%	
Graduate	2	15%	3	25%	2	18%	
Undergraduate	7	54%	7	58%	7	64%	
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Title							
Dean	5	38%	4	33%	4	36%	
Director	2	15%	2	17%	1	9%	
Professor	4	31%	4	33%	4	36%	
Provost	1	8%	1	8%	1	9%	
Psychometrician	1	8%	1	8%	1	9%	
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Degree							
MD	4	31%	2	17%	3	27%	
MD, MPH	1	8%	1	8%	1	9%	
MD, MSPH, FACS	0	- - - - - - - - - -	1	8%	0		
MD, PhD	2	15%	2	17%	1	9%	
MS	1	8%	1	8%	1	9%	
PhD	4	31%	4	33%	4	36%	
PhD, MEd	1	8%	1	8%	1	9%	
Department							
Academic Commons	1	8%	1	8%	1	9%	
Biochemistry and	4	00/	4	00/	4	00/	
Molecular Biology	1	8%	1	8%	1	9%	
Center for Research in							
Medical Education and	1	8%	1	8%	0		
Healthcare							
General Surgery	0		1	8%	0		
Medical Education	1	8%	1	8%	1	9%	
Medicine	4	30%	3	25%	4	36%	
Medicine, Medical						2.07.0	
Education	1	8%	0				
Microbiology and							
Immunology	1	8%	1	8%	1	9%	
Neuroscience	1	8%	1	8%	1	9%	
Undergraduate Medical	•		•				
Education	2	15%	2	17 %	2	18%	
Note: Group percentages may not add			1.				

Note: Group percentages may not add up to 100% due to rounding

Table 3: Conceptual Model of Competency Assessment Tool

Undergraduate Medical	Fourth Year					Alignment with
Education Program	Performance Levels				9	ACGME Harmonized
Objectives	114				HE	Milestones
PBLI 1: Identify strengths, deficiencies, and limits in one's knowledge and expertise	UI	U2	U3	√	US	PBLI 2: Reflective Practice and Commitment to Personal Growth PBLI 2: Reflective
PBLI 2: Set learning and improvement goals			✓			Practice and Commitment to Personal Growth
PBLI 3: Identify and perform learning activities that address one's gaps in knowledge, skills, or attitudes				✓		PBLI 2: Reflective Practice and Commitment to Personal Growth
PBLI 4: Systematically analyze practice using quality-improvement methods and implement changes with the goal of practice improvement					√	PBLI 1: Evidence Based and Informed Practice, PBLI 2: Reflective Practice and Commitment to Personal Growth
PBLI 5: Incorporate regular feedback into practice				✓		PBLI 2: Reflective Practice and Commitment to Personal Growth
PBLI 6: Locate, appraise, assimilate, and apply evidence from timely scientific studies related to patients' health problems					√	PBLI 1: Evidence Based and Informed Practice
PBLI 7: Participate in the education of patients, families, students, peers, and other health professionals					✓	
PBLI 8: Obtain and utilize information about individual patients, populations of patients, or communities from which patients are drawn to improve care				✓		PBLI 1: Evidence Based and Informed Practice

Note: This is a conceptual model of a competency assessment tool for the practice-based learning and improvement competency. The tool can be used to rate student performance during the 4th year of the UME experience. Student results are then shared with graduate medical educators. The UME performance levels (U1, U2, U3, U4, and U5) match that of the Dreyfus Model of Development.⁴ Specifically, the levels reflect that of a novice, advanced beginner, competent, proficient, and expert.

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Results

Table 2. Alignment results between the local UME MEPOs and ACGME Harmonized Milestones sub-competencies.

	ACGME Harmonized Milestones						
MEPOs	PBLI 1: Evidence-Based and Informed Practice	PBLI 2: Reflective Practice and Commitment to Personal Growth					
PBLI 1		✓					
PBLI 2		\checkmark					
PBLI 3		\checkmark					
PBLI 4	✓	✓					
PBLI 5		✓					
PBLI 6	\checkmark						
PBLI 7 PBLI 8	NAI ✓	NAI					
Aligned MEPOs/ Total MEPOs	3/8	5/8					
	ICS 1: Patient and family-centered communication	ICS 2: Interprofessional and Team Communication	ICS 3: Communication within Healthcare Systems				
ICS 1	\checkmark	\checkmark					
ICS 2		✓	✓				
ICS 3		CNR	✓				
ICS 4	\checkmark	\checkmark					
ICS 5	✓	✓					
Aligned MEPOs/ Total MEPOs	3/5	4/5	2/5				
	PROF 1: Professional Behavior and Ethical Principles	PROF 2: Accountability/ Conscientiousness	PROF 3: Self- Awareness and Help-Seeking				
PROF 1	✓	✓					
PROF 2	√	√					
PROF 3	√	✓					
PROF 4	✓						
PROF 5	✓	✓					
Aligned MEPOs/ Total MEPOs	5/5	4/5	0/5				

Note: ✓ = alignment, NAI = No alignment identified, CNR = Consensus not reached,
PBLI = Practice-based Learning and Improvement ICS = Interpersonal Communication Skills,
PROF = Professionalism, MEPOs = Medical Education Program Objectives

Conclusions

Establishing effective communication of student performance between UME and GME is critical to ensure a smooth transition. By aligning the UME MEPOs and ACGME-HM subcompetencies, this study presents a way for UME and GME to narrow the gap in knowledge of student performance levels. Given the level of alignment between the MEPOs and the ACGME Harmonized Milestones, the authors propose a conceptual model for a medical education competency assessment tool (MECAT) at the undergraduate level (See Table 3). The purpose of the model is to demonstrate a possible method regarding communication of student level of competence between UME And GME.

References

- 1. Englander R, Frank JR, Carraccio C, et al. Toward a shared language for competency-based medical education, Med Teach. 2017; 39(6),582-587, doi: 10.1080/0142159X.2017.1315066
- 2. The Coalition for Physician Accountability's Undergraduate Medical Education-Graduate Medical Education Review Committee (UGRC): Recommendations for Comprehensive Improvement of the UME-GME Transition. Coalition for Physician Accountability (August 2021). Accessed August 28, 2023, from https://physicianaccountability.org/wp-content/uploads/2021/08/UGRC-Coalition-Report-FINAL.pdf
- 3. Humphrey-Murto S, Varpio L, Wood TJ, et al. The Use of the Delphi and Other Consensus Group Methods in Medical Education Research: A Review. Acad Med. 2017;92(10):1491-1498. doi:10.1097/ACM.000000000001812
- 4. Dreyfus, SE, Dreyfus HL. A five-stage model of the mental activities involved in directed skill acquisition. California Univ Berkeley Operations Research Center 1980.