An Innovative Method of Assessing the AAMC Competencies in the Multiple Mini Interview

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Background

- In 2023, the Association of American Medical Colleges (AAMC) updated the professional competencies intended to evaluate applicants' readiness for medical school¹
- Some competencies lend themselves to assessment through the American Medical College Application System (AMCAS) application while others require an accurate means of evaluation
- The Multiple Mini Interview (MMI) is a technique to supplement holistic evaluation of non-cognitive competencies²

Methods

- Using timely topics and issues, authors created MMI scenarios that each assess two separate AAMC professional competencies. Scenarios were vetted by Admissions personnel and the chief diversity officer for situational or scoring biases
- Authors also created a method of individual scoring rubrics including anchors and flexibility to include novel answers to minimize assessor variability and ensure accurate evaluation so that multiple interviews can be held concurrently in a MMI interviewing process
- Rubrics are used concomitantly with an interviewer's overall assessment of readiness for success in medical school, and some competencies can be assessed in more than one scenario
- Authors used ten separate scenarios to comprehensively evaluate thirteen of the seventeen non-cognitive professional traits that are more difficult to assess through the AMCAS primary and secondary applications alone

Example MMI Scenario and Evaluation Rubric

STEM: You are doing well in an upper-level science course. You usually attend lectures in person because it provides the opportunity to ask questions of the professors who are the experts in their fields. One professor is less capable of presenting the material in a manner with which you connect, so you stopped going after the third lecture. Students who attend the lectures describe them as "a waste of time." At the end of the semester you are asked to fill out an anonymous evaluation of the professor. What feedback, if any, would you give?

Unacceptable 1-2	Poor 3-4	Good 5-6	Very Good 7-8	Exceptional 9-10	
Interpersonal Skills : Demonstrates an awareness of how social and behavioral cues affect people's interactions and behaviors; adjusts appropriately in response to cues, recognizes and manages one's emotions and how emotions impact others or a situation					
 Blames professor solely for the disengagement Provides hurtful, disparaging feedback without constructive lessons Suggests professor should be terminated based on the experience of three lessons and hearsay of other students 	 Provides negative but not mean-spirited feedback that is not constructive Is ambivalent about possible effects on professor's tenure or promotion 	 Decides not to fill out survey because does not have a sense of responsibility to greater good/school/classm ates and justifies it on only 3 classes attended Provides friendly but unhelpful feedback 	• Provides primarily constructive feedback but suggests either that the inability to engages is solely due to the professor's lack of ability or also disparages the professor based on their limited experience in class	 Provides balanced feedback making it clear it is based on only 3 lectures; suggests what would have allowed for more engagement Recognizes that professor's inability to resonate with applicant does not necessarily mean the professor is inept 	
Commitment to Learning and Growth : Practices continuous personal and professional growth for improvement; reflects on successes, challenges and mistakes; pursues opportunities to improve knowledge; asks for and incorporates feedback					
Failed to recognize the learner's role in actively engaging to enhance learning	Feels the onus for education lies with the professor, but in a situation where the	 Understands that studying is a large part of adult learning, but expects the 	Addresses both the benefits of passive learning from experts in a field and the need for	 Recognizes active engagement is required for successful adult learning 	

Next Steps

preselected and

Scenario and rubric scores from matriculating students can be compared to formative evaluations of entrustable professional activities performed at the end of year one or at graduation

will look for readily

to supplement

This will inform which competencies are most important for accurate and holistic assessment by Admissions

AAMC Competencies for Entering Medical Students

Professional	Science	Thinking and Reasoning
Commitment to Learning and Growth Cultural Awareness Cultural Humility Empathy and Compassion Ethical Responsibility to Self and Others Interpersonal Skills Oral Communication Reliability and Dependability Resilience and Adaptability Service Orientation Teamwork and Collaboration	Human Behavior Living Systems	Critical Thinking Quantitative Reasoning Scientific Inquiry Written Communication

Discussion & Limitations

- The MMI includes multiple evaluators and has been shown to reduce bias in admissions evaluations^{2.3}
- It is a resource-intensive method requiring more interviewers and appropriate training for accuracy
- Authors anticipate assessment of the premedical school competencies in this way enhances our ability to provide an accurate and holistic evaluation of medical school applicants including the AAMC professional competencies for entering medical students

opportunities to learn

Acknowledges

responsibility

the balance between student and faculty

Expects to be

opportunities to be

supplied with

engaged

References

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educators

