

Multi-institutional Pilot Testing of Entrustable Professional Activities for Competency Assessment of RAAPM Fellows

Jared Katz MD*, Kenneth E Higgins MD⁺, Brian Allen MD[%], Garrett Burnett MD[#], Pamela Chia MD⁺, Jo Hsuan Lee MS*, Steven Porter MD[^], Usha Saldanha MD[@], Jessica Weeks MD[~], Elizabeth Wilson MD^{\$}, Glenn Woodworth MD[>] and Robert Maniker MD MSc*

*Columbia University Medical Center, New York, NY; ⁺University of California, Los Angeles, Los Angeles, CA; [%]Vanderbilt University, Nashville, TN; [#]Mount Sinai Hospital, New York, NY; [^]Mayo Clinic Jacksonville, Jacksonville, FL; [@]University of California, Davis, Sacramento, CA; [~]Northwestern University, Chicago, IL; ^{\$}University of Wisconsin, Madison, WI; [>]Oregon Health & Science University, Portland, OR

Introduction

- The ACGME has developed educational milestones for the assessment of trainee progress in anesthesiology residency and fellowship training programs.
- Entrustable Professional Activities (EPAs) are clinical activities that may be entrusted to a trainee and, when implemented as the basis of clinical assessment, provide a bridge connecting trainee performance to educational milestones.
- Here, we describe the preliminary results of the first five months of a multi-center pilot study observing the implementation of EPAs for the assessment of RAAPM fellows in the United States.

Materials and Methods

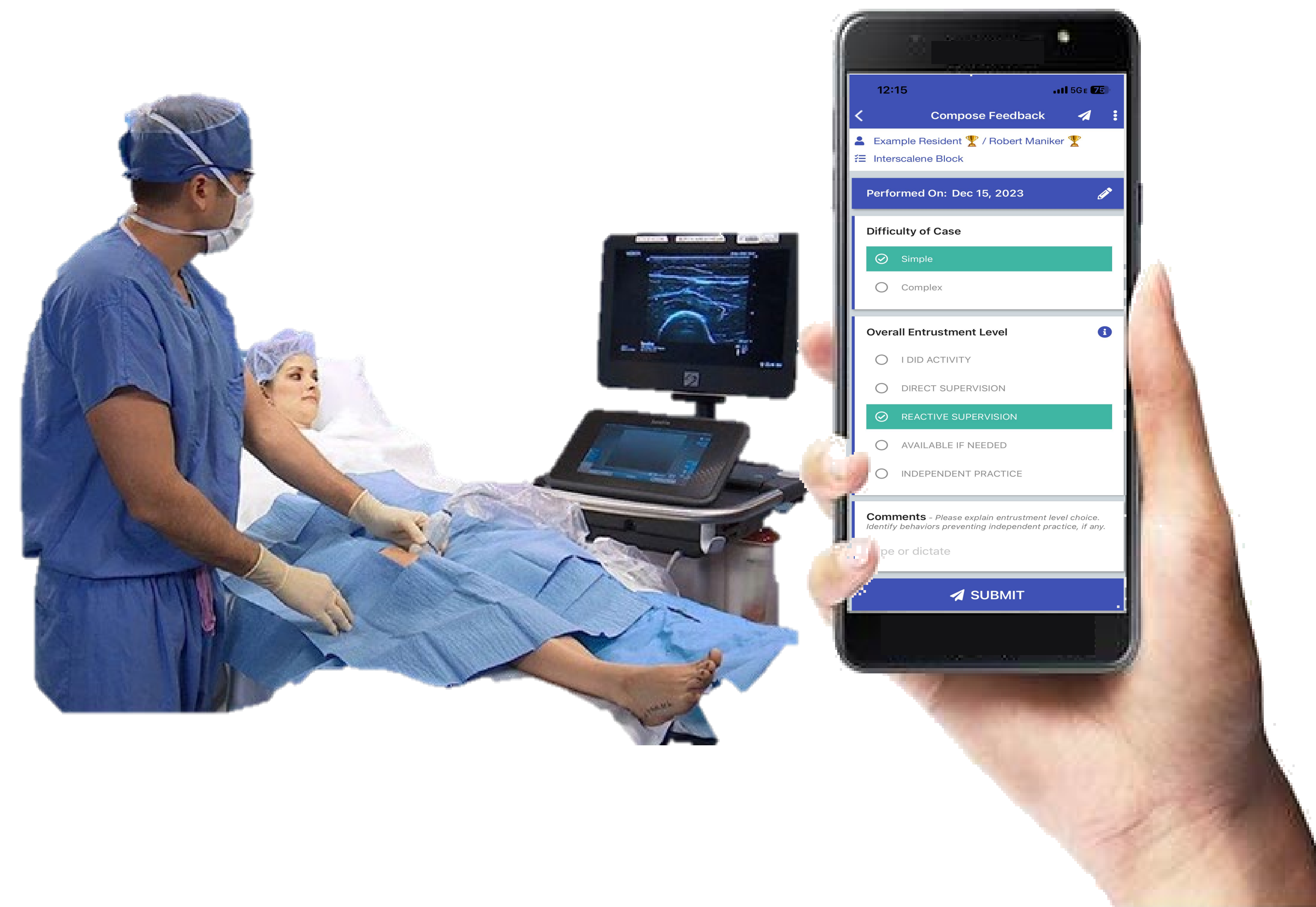
- After obtaining IRB approval, RAAPM programs were recruited for a pragmatic trial of implementation of RAAPM EPAs to assess fellows throughout the year.
- Programs were provided with information about EPAs and their use as an assessment modality and agreed to share de-identified EPA data for their fellows to assess competency trajectories.
- Similar to previous work with residency EPAs, program faculty document EPAs in real time during direct observation of fellows using a mobile phone app (MyTipReport, Nashville, TN). See Figure 1.

Results

- Eight RAAPM fellowship programs volunteered to participate in the one-year implementation pilot.
- From July 1 to Nov 30 2023, seven programs utilized EPA assessments, resulting in a total of 634 unique assessments.
- See Figure 2 for a breakdown of the submitted assessments with examples of each.

Real time documentation of a shared set of entrustable professional activities (EPAs) is a feasible method for tracking trainee clinical competency across RAAPM fellowship programs.

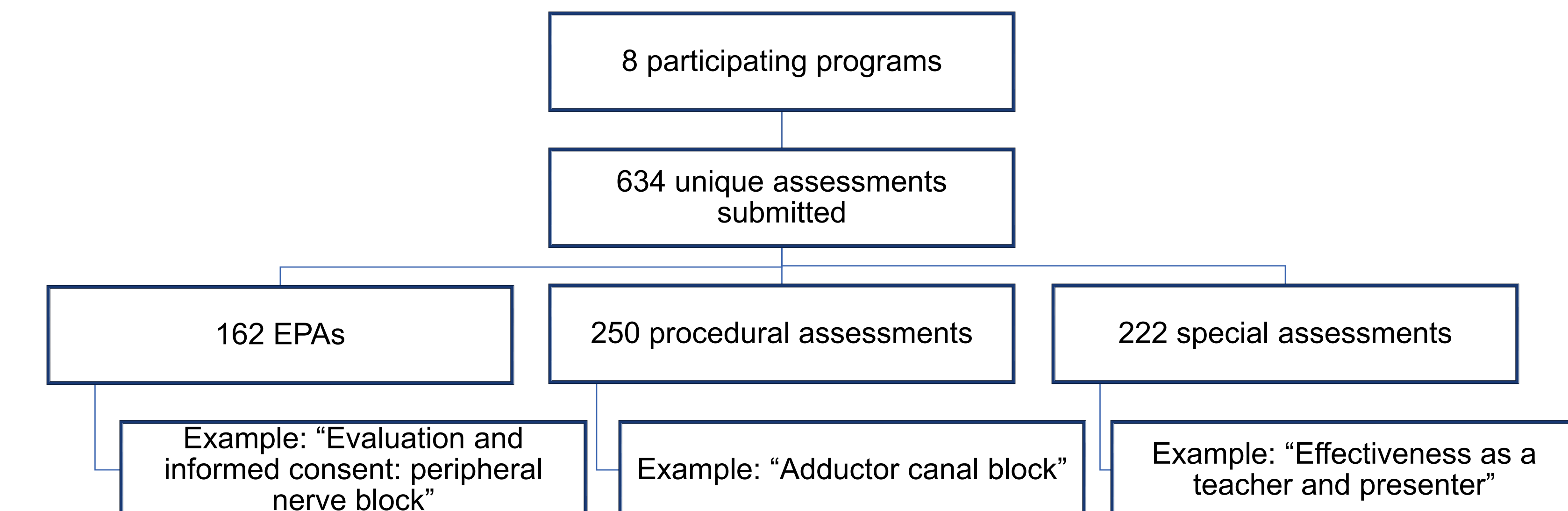
Figure 1: Demonstration of EPA assessment using the MyTipReport App



Discussion

- We report initial pilot data on the implementation of EPA's for assessment of competency in RAAPM fellowship training.
- Similar to studies in anesthesiology residency programs, this data demonstrates feasibility of using a shared set of assessments across multiple RAAPM fellowship programs.
- Future work will report a full year of data and include average assessment results to demonstrate normal learning curves in milestone achievement over time in training.

Figure 2: Breakdown of submitted assessment data with examples



References

1. Woodworth GE, Marty AP, Tanaka PP, et al. Development and Pilot Testing of Entrustable Professional Activities for US Anesthesiology Residency Training. *Anesth Analg*. 2021;132(6):1579-1591.
2. Porter S, Prendiville E, Allen BFS, et al. Development of entrustable professional activities for regional anesthesia and pain medicine fellowship training. *Reg Anesth Pain Med*. 2022;47:672-677.
3. Woodworth GE, Goldstein ZT, Ambardekar AP, et al. Development and Pilot Testing of a Programmatic System for Competency Assessment in US Anesthesiology Residency Training. *Anesth Analg*. Published online October 6, 2023.

