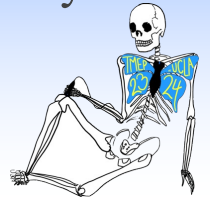


# Training in Medical Education and Practice (TMEP): An innovative MS3 Discovery course to prepare students to become peer educators in academic medicine.



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TMEP Students, 2023-24: Torey Averick, Cydni Baker, Jonathan Balderrama, Mohit Bandla, Marilyn Bravo, Brandon Brizuela, Raimel Brooks, Stephanie Bueno, Alberto Juarez, Melissa Lopez, Anthony Nguyen, Ehizele Robertson, Deseray Sileo, Ami Tamhaney, Luigi Varilla, Eliza Villarruel, Brandon Williams

Daniela Ibañez Isidro, Alan Chiem, Cristina Ghiani, James Lister, William Shyy, Katie Thornber, Elena Stark, and TMEP Students

*TMEP is a Medical Education Discovery course combining Clinical Anatomy and Point-of-Care Ultrasound (POCUS) Training with Peer Education and Scholarly Work.*



## Clinical Anatomy

- Weekly didactics to review anatomy and organ systems in the MS1 Foundations of Medical Science (FOMS) curriculum
- Cadaver Dissection and Creation of Prosections

## POCUS



- Weekly sessions featuring didactics, hands-on instruction, scanning at clinical sites, and image review
- Exposure to multiple specialties that use POCUS
- Development of a scan portfolio with assigned handheld ultrasound units and a Cloud-based image archival system

## Peer Education



- TMEP Students applied their training as anatomy and POCUS peer educators for formal MS1 and MS2 courses
- Topics included: musculoskeletal, cardiovascular, pulmonary, gastrointestinal, renal, endocrine, and reproductive health

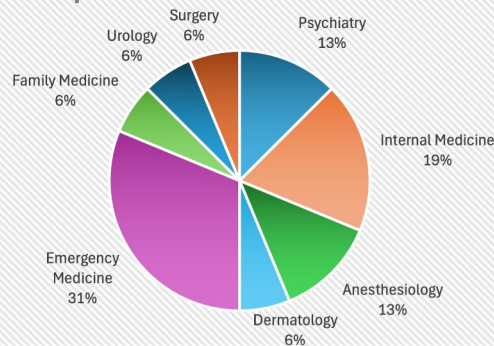
## Scholarly Projects



- Monthly meetings to help develop, implement, and disseminate scholarly work
- Educational projects included creation of Clinical Anatomy Learning Modules, 3D Printed Models for POCUS Education, and Study of Barriers to Implement POCUS Education
- Clinical projects included POCUS prognostication in COVID-19, Veteran's Mental Health, and the Association of POCUS and Emergency Department Length of Stay



## Specialties of TMEP Students



## Monthly schedule

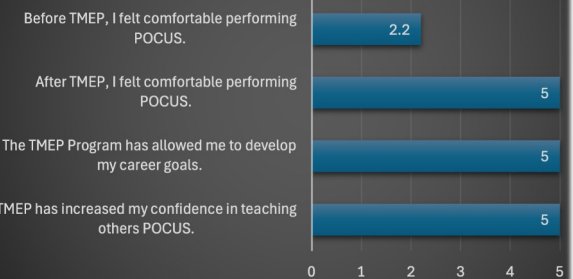
October	November	December	January	February	March	April	May-July
Neuro	Upper MSK	Lower MSK	Echo	HEENT	Thoracic	Abdominal	Various Applications (Ocular, GU, Procedural)
	Week 1	Week 2	Week 3	Week 4 (or 25% of Discovery time)			
	Review clinically relevant anatomy of upper extremity MSK. Learn teaching methods. Develop educational tools like prosections, study aids, etc.	Learn POCUS of the upper extremity via flipped classroom instruction, with supervised scan sessions led by POCUS faculty.	Teach upper extremity MSK (anatomy and POCUS) in Foundations of Medical Sciences and/or Foundations of Practice as small group facilitators.	Spend 25% of each month on a scholarly project (can be non-POCUS and with a PI of your choice)			

The TMEP Program would like to thank participating faculty and DGSOM leadership, whose passion for mentorship and teaching made our program possible. In addition, TMEP was supported by a grant from the Gerald Oppenheimer Family Foundation.



## TMEP Student Assessment (n=10)

(1-Strongly Disagree, 5- Strongly Agree)



"TMEP has significantly contributed to my growth both as a student and as a teacher. The program provided a unique platform to deepen my understanding of subjects and then translate that knowledge into effective teaching strategies. The experience honed my ability to communicate complex ideas clearly and patiently, ensuring that every student could grasp the material effectively. TMEP has reinforced my ability to convey knowledge and foster understanding, skills that are essential in any medical specialty."



TMEP Students presented their work at the following regional and national conferences:

- UC Simulation Symposium, Los Angeles, CA
- American College of Emergency Physicians Annual Meeting, Las Vegas, NV
- CHEST Annual Meeting, Boston, MA
- Council of Residency Directors Annual Meeting, Seattle, WA
- American Institute of Ultrasound in Medicine Annual Meeting, Orlando, FL