

Department of Emergency Medicine Quarterly Update

Oct-Nov-Dec 2022

Message from the Chair: Barry J. Knapp, MD

I hope all is well! I see this a fitting time during medical student interview season to update you on the status of resident recruitment. This is a particularly challenging year as the academic department has noticed a dramatic decline in the number and quality of candidates choosing emergency medicine (EM) as a medical specialty. This falloff is a direct result of [The Emergency medicine Physician Workforce: Projections for 2030 EM Workforce](#) report published in August 2021. Whether you agree with the study assumptions or not, its effects on medical students were abrupt and dramatic. In the 2020-21 academic year, we had 28 EVMS fourth-year students who were EM-bound. In the 2021-22 academic year, there were 16. This academic year the number of EVMS students choosing EM was only six! The trend is national and will likely continue for the next several years as the workforce efforts to correct itself. Active interventions by national organizations (ACEP, ABEM, ACGME, AAEM, SAEM, CORD) are being contemplated though there is no "quick fix". There are multiple reasons for the situation we're in. One significant contributor is the rapid expansion of EM residency programs by large for-profit corporate practices of emergency medicine.

As an academic department, we'll continue to work to attract the best and brightest into our program. Our efforts will need to start at home by inspiring the most-qualified EVMS students to choose EM as a career. I challenge academic and community faculty to engage our EVMS students on all levels (M1-M4), so they can see the wonderful people and skills our specialty and EPT physicians have to offer! As an academic department, we'll continue to work on a local, regional, and national level to promote the greatness of both EVMS Emergency Medicine and Emergency Physicians of Tidewater!

Accreditation

The EVMS Emergency Ultrasound Fellowship received accreditation by the Emergency Ultrasound Fellowship Accreditation Council (EUFAC). Congrats to Drs. Jones, Feyzeau and Byars!

Message from the PD: Don Byars, MD

This transition year brings many challenges for our program, staff, and faculty. The greatest challenge we face this year is the combined fallout from the EM Workforce Study and COVID 19. Historically, emergency medicine has been a very competitive match, with 98 to 100% of positions being filled in the primary Match, with only a small handful of spots filled in the SOAP. However, in 2022 there were 217 unfilled positions in EM. Dr. Knapp did an excellent job leading us to one of our most successful matches despite the historically high number of unfilled EM residency positions. Because of the above forces, the number of applicants to EM has been in sharp decline over the past two years. For this 2022-23 application season, the number of applicants from US medical schools continues to fall (~10% for DO and ~25% for MD). With a steadily increasing number of both new

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programs and osteopathic programs obtaining accreditation, the pressure for quality EM applicants has never been greater. Our faculty and residents have been working together to do the best recruiting we possibly can. Our residents, in particular, have done an amazing job with recruiting during the night before the interview "hangout sessions" and through our Chief Resident's use of social media via our departmental Instagram account. Our community faculty have also been essential this year in recruiting, with a special shout out to Heidi Best, MD and JD Landon, MD. Because of the combined efforts of our team, I am optimistic about this year's Match!

Despite these challenges, we continue to make significant progress on the academic front. This year has seen us submit a record number of scientific abstracts to national and international meetings. This will hopefully result in a record number of scientific presentations on the national stage to help us improve our national footprint. We continue our pursuit of improved procedural competency through increased procedural expectations and expanded simulation laboratory experiences. We continue to build bridges with other academic departments (e.g. Offering joint ultrasound training with our surgical / critical care colleagues) and outside organizations (e.g. Collaborating with the TEMS council on projects like whole blood transfusion in the field). We are also grateful to our burgeoning clinical informatics team for helping us to create systems to better document our resident's procedural experiences while simultaneously decreasing their documentation burden. Despite the challenges we face, the future for our residency program is bright!

Special Achievements

1. **Anya Cipi, MD** was recognized as one of forty outstanding professionals (and the only physician!) under the age of 40 by *Inside Business*, October 2022.

Publications

1. **Lang, J, Byars, D,** Martin, C. Hook effect in gestational trophoblastic disease: An emergency department case presentation. *JACEP Open*. 2022; 3:e12832. <https://doi.org/10.1002/emp2.12832>
2. **Knapp, B. J, Apgar, L., & Pennell, K.** (2022). Life-Threatening Complications Associated with Bladder Decompression: A Case Report. *Clinical Practice and Cases in Emergency Medicine*, 6(4). <http://dx.doi.org/10.5811/cpcem.2022.9.57956>
3. **Klinkhammer M, Cann J.** EBM Review Series: Association of ED Pediatric Readiness with Mortality to 1 Year Among Injured Children Treated at Trauma Centers. In: VACEP's Evidence-Based Medicine Review Series for Emergency Physicians (Oct 2022). Available at <https://www.vacep.org/news-blog/children-treated-at-trauma-centers>.
4. **Klinkhammer M, Cann J.** EBM Review Series: International Validation of the Canadian Syncope Risk Score. In: VACEP's Evidence-Based Medicine Review Series for Emergency Physicians (Dec 2022). Available at <https://www.vacep.org/news-blog/international-syncope>.
5. **Lo BM,** et al. American College of Emergency Physicians (ACEP) Clinical Policies Subcommittee (Writing Committee) on Acute Heart Failure Syndromes. Clinical Policy: Critical Issues in the Evaluation and Management of Adult Patients Presenting to the Emergency Department With

Acute Heart Failure Syndromes: Approved by ACEP Board of Directors, June 23, 2022. Ann Emerg Med. 2022 Oct;80(4):e31-e59. PMID: 36153055

6. **Noble, M., Cann, J., Feyzeau, K., Jones, M., Whitty, S., Landon, J., Gallion, L. and Byars, D.** (2023), The Erector Spinae Plane Block as Novel Therapy for Renal Colic. J Ultrasound Med, 42: 233-237. <https://doi.org/10.1002/jum.15998>

Speaking Engagements

1. **Kean Feyzeau, MD** presented "Ultrasound Pelvis an eFAST" to 1st Year EVMS medical students on October 4, 2022.
2. **Francis L Counselman MD, CPE, FACEP**, Professor presented Grand Rounds (virtually) to the Department of Emergency Medicine for the Lehigh Valley Health Network in Lehigh Valley, PA on October 5, 2022. He presented "Oncologic Emergencies" and "The Last Lecture, or Lessons Learned as a PGY-39".
3. **Bruce Lo MD**, presented (virtually) "Change Management" for the AAEM ED Operations Certificate Course on October 12, 2022.
4. **Bruce Lo MD**, presented "Gender differences in emergency medicine resident assessment: A scoping review" at the EVMS Fine Journal Club on October 26, 2022.
5. **Ashley Fox, MD** and the Bystander CPR Community Engaged Learning team taught bystander CPR and AED use to students in a CIVIC Leadership Institute course visiting the EVMS campus on November 3, 2022.
6. **Barry Knapp, MD** taught "Ultrasound in Medical Education" and held an ultrasound scanning session with CIVIC Leadership Institute course students visiting the EVMS campus on November 3, 2022.
7. **Barry Knapp, MD** presented "Ultrasound in Early Pregnancy" to second year EVMS medical students on November 7, 2022.
8. **Bruce Lo, MD** presented "The Human Factor: Coaching and Dealing with Difficult Physicians" for the AAEM Emergency Director Operations Certificate (EDOC) Course on November 9, 2022. Dr. Lo also ran the coaching seminar for this topic.
9. **Bruce Lo, MD** presented (virtually) "Building a QA Program: Tips and Pitfalls" at the 24th Annual Conference Society for Emergency Medicine India on November 19, 2022.
10. **David Nesbitt, MD** presented "Clinical Skills Integrated Ultrasound" to second year EVMS medical students on November 28, 2022.
11. **Bruce Lo, MD** presented "To HINT or not to HINTS – Should You be Using It?" at the 47th Annual Current Concepts in Emergency Care in Maui, HI on December 9, 2022.

Scholarly Activities

2. **Barry Knapp, MD** served as a Team Leader for American Board of Emergency Physicians (ABEM) Oral Boards Exam from December 7-9, 2022

3. The following members of the Emergency Medicine Department were presented with Certificates of Recognition by the Brickell Medical Sciences Library at EVMS, in celebrating the 2021 publication of their scholarly works, October 14, 2022:
 - a. **Heidi Best, MD**
 - b. **Donald Byars, MD**
 - c. **Francis Counselman, MD**
 - d. **Kean Feyzeau, MD**
 - e. **Lauren Gallion, MD**
 - f. **Matthew Jones, MD**
 - g. **Phil Jordan, MD**
 - h. **Leslie (Rea) Kallevang, MD**
 - i. **Martin Klinkhammer, MD**
 - j. **Jondavid Landon, MD**
 - k. **Bruce Lo, MD**
 - l. **Carol McCammon, MD**
 - m. **Gregory Weingart, MD**

4. In addition, **Team Ultrasound** and **Team EMS** have partnered to submit a record number of abstracts to UltraCon 2023, the premier ultrasound conference in the world (hosted by American Institute of Ultrasound in Medicine):
 1. Ultrasound Guided Percutaneous REBOA Versus Emergency Thoracotomy in a Simulated Traumatic Arrest (ePoster); **Don Byars MD, Kean Feyzeau MD, Anja Cipi MD, JD Landon MD, Michael Hudson MD, Jesse Cann MD, and Thomas Hogan MD.**
 2. Not All Vegetations Represent Infective Endocarditis, But They Are All Bad: A Tale of Three Vegetations (ePoster); **Don Byars MD, Kean Feyzeau MD, JD Landon, MD, Gavin Rogers MD and Sara Demian MD.**
 3. Point of Care Ultrasound Diagnosis of Thrombus in Transit in Acute Pulmonary Embolism (ePoster); **Don Byars MD, Kean Feyzeau MD, JD Landon, and Thomas Hogan MD.**
 4. How Much Time Does It Take to Run an Emergency Medicine Ultrasound Fellowship? A Multi-year Review (Oral Presentation); **Don Byars MD, Matt Jones MD, Kean Feyzeau MD, JD Landon, and Gavin Rogers MD.**
 5. A Novel Ultrasound Model for Teaching the Erector Spinae Plane Block (Oral Presentation); **Don Byars MD, Matt Jones MD, Kean Feyzeau MD, JD Landon MD, and Jesse Cann MD.**

6. Ultrasound Guided REBOA Deployment during a Simulated Out of Hospital Cardiac Arrest: A Feasibility Study (Oral Presentation); **Don Byars MD, Dylan Woolum MD, Lucie “Tex” Ford MD, Matt Jones MD, Kean Feyzeau MD, and JD Landon MD.**
7. Infraclavicular Ultrasound Guided Regional Anesthesia to Facilitate Upper Extremity Open Fracture Management in the Emergency Department (Oral Presentation); **Don Byars MD, Mark Noble MD, JD Landon MD, and Jesse Cann MD.**
8. Point of Care Ultrasound Diagnosis of Cardiac Amyloidosis as the Etiology for Syncope in the Emergency Department (Oral Presentation); **Don Byars MD, Matt Jones MD, Kean Feyzeau MD, JD Landon MD, and Amy Albright MD.**
9. Point of Care Ultrasound Diagnosis of Twin Ectopic Gestation (Oral Presentation); **Kean Feyzeau MD, Anja Cipi MD, Sandy Deane MD, and Michael Hudson MD.**

Upcoming Events

- **Journal Club:** Next JC is January 23, 2023 at Urban Taco.

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