

Department of Emergency Medicine Quarterly Update

Jan, Feb, Mar 2019

Message from the Chair

Residency and fellowship training is best accomplished in an environment rich in a diverse patient population, high academic standards, faculty feedback in real time in the clinical arena, stimulating didactics and an attitude focused on scientific inquiry and scholarly activity. Scholarly activity involves the scholarships of discovery, application, and dissemination. The EVMS Department of Emergency Medicine is fortunate to have all of the above mentioned features. I would like to share with you some of the scholarly activity and accomplishments of the faculty and residents over the past three months.

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EM Department News

Dr. Knapp once again recruited nine outstanding students to our Emergency Medicine residency program – the Class of 2022. One each from *Eastern Virginia Medical School, University of North Texas Health Science Center at Fort Worth/Texas College of Osteopathic Medicine, Albany Medical College, Marian University College of Osteopathic Medicine, USF Health Morsani College of Medicine, Frank H. Netter MD School of Medicine at Quinnipiac University, St. George's University School of Medicine, Lake Erie College of Osteopathic Medicine, and University of Kentucky College of Medicine*. We look forward to them starting with us in late June.

- **Apgar, Lauren** – *University of North Texas Health Science Center at Fort Worth/Texas College of Osteopathic Medicine*
- **Johnson, Chase** – *Albany Medical College*
- **Jones, Anne** – *Marian University College of Osteopathic Medicine*
- **Parker, Kyle** – *USF Health Morsani College of Medicine*
- **Ransford, Gabrielle** – *Frank H. Netter MD School of Medicine at Quinnipiac University*
- **Rea, Leslie** – *St. George's University School of Medicine*
- **Reuss, Shane** – *Lake Erie College of Osteopathic Medicine*
- **Rogers, Gavin** – *Eastern Virginia Medical School*
- **Woolum, Dylan** – *University of Kentucky College of Medicine*

We would also like to recognize our rising Chief Residents for the 2019-2020 academic year: **Peter Brooks, DO** and **Phillip Jordan, MD**.

Speaking Engagements

- **Joe Lang, MD**, Assistant Professor, presented “Facial Trauma” to the Nightingale Air Ambulance team on 2/4/19.
- **Don Byars, MD**, Associate Professor, and **Barry Knapp, MD**, Professor, gave a lecture and scanning session to the Nightingale Air Ambulance team on “Trauma Ultrasound” and “Butterfly Ultrasound Overview” on 2/4/19.
- **Barry Knapp, MD**, Professor, taught bystander CPR with the EVMS Medical Student Service Learning Group at One Life Fitness in Norfolk on 2/4/19.
- **Michael Bono, MD**, Professor, presented “Facial Trauma” to the Nightingale Air Ambulance team on 2/5/19.
- **Matt Jones, MD**, Assistant Professor, and **David Nesbitt, MD**, EUS Fellow, gave a lecture and scanning session to the Nightingale Air Ambulance team on “Trauma Ultrasounds” and “Butterfly Ultrasound Overview” on 2/5/19.
- **Joe Lang, MD**, Assistant Professor, presented “Next Level Difficult EKG Rhythms” to the Portsmouth EMS on Feb. 14, 2019
- **Bruce Lo, MD**, Professor, chaired the 2019 VA ACEP Annual Conference at The Homestead in Hot Springs, VA, on Feb. 23 & 24, 2019. Dr. Lo also presented “Annual President Update” at the Conference on Feb. 23, 2019
- **Barry Knapp, MD**, Professor, served on a panel of Program Directors of Emergency Medicine in Virginia for the Medical Student track. In addition, the EVMS EM Team (**Galen Tobey, MD**, Chief Resident; **Mark Noble, MD**, EM-3; and **Peter Brooks, DO**, EM-2) won first place (in a tie with the team from UVA), competing against teams representing VCU, Carilion, Portsmouth Naval Hospital and UVA’s Emergency Medicine residency programs.
- **Barry Knapp, MD**, Professor, presented “Ultrasound in Primary Care: A Look to the Future” to the EVMS Ghent Family Medicine and Portsmouth Family Medicine residents on Feb. 27, 2019.
- **Joe Lang, MD**, Assistant Professor, presented “Cardiovascular Emergencies” to the EVMS PA students on March 21, 2019.
- **Bruce Lo, MD**, Professor, presented “Neurological Emergencies: an ED Approach” to the EVMS PA students on March 25, 2019.
- **Francis L. Counselman, MD**, Professor, presented “Respiratory Emergencies” (2 hours) to the EVMS PA students on March 26, 2019.
- **Don Byars, MD**, Associate Professor, **Barry Knapp, MD**, Professor, and the US Fellows taught “Critical Care Ultrasound: What the Family Medicine Physician Needs to Know” to the 4th year EVMS students as part of the Transition to Practice program on March 27, 2019.
- **Francis L. Counselman, MD**, Professor, presented “CHF, PE and Asthma – Just The Facts” to 4th year EVMS students as part of the Transition to Practice program on March 27, 2019.
- **Don Byars, MD**, Associate Professor, presented “US Guided Resuscitation” to the 4th year EVMS students as part of the Transition to Practice program on March 28, 2019.
- **Eric Deutsch, MD**, Assistant Professor, presented “Toxicology” to the EVMS PA students on March 28, 2019.
- **Martin Klinkhammer, MD**, Assistant Professor, presented “ECG Interpretation” to the 4th year EVMS students as part of the Transition to Practice program on March 28, 2019.
- **Charles Graffeo, MD**, Professor, presented “Practice Tips for the EM-1 Resident” to the 4th year EVMS students as part of the Transition to Practice program on March 29, 2019.

Publications & Scholarly Activity

The following were authored or coauthored by members of our Department of Emergency Medicine:

- **Graffeo C.** Are alpha-blockers effective as medical expulsive therapy for ureteral stones. Best Evidence Emergency Medicine 2018 (09): 7-8.
- **McIlvain C, Hadiza G, Tzavaras TJ, Weingart GS.** Injuries associated with hoverboard use: a review of the National Electronic Injury Surveillance System. Am J Emerg Med 2019; 37: 472-477.

Fellowships

International Emergency Fellowship (Carol McCammon, MD, MPH; Fellowship Director):

There have been a lot of activities underway in our International Emergency Medicine Fellowship!

JANUARY

Carol McCammon was an invited speaker to the Annual Meeting of the West African College of Surgeons, January 19-24, 2019 and presented '*Quality Assurance in Limited Resource Settings*'. An exciting outcome of this meeting is a collaborative effort with Kurt McCammon, Carol McCammon and the College to begin a surgical quality team of doctors from four different West African countries. The project focus is currently being determined by the group, and will utilize process improvement methodology to implement effective change. The expectations are to build surgical care quality and infrastructure for better patient care, which is certainly a pillar of necessity that must exist in order to build effective emergency care services in these communities. Relationships are being built.

FEBRUARY

Lipika Bhat had the opportunity to visit Mangalore and Sullia in the state of Karnataka, India in February and was able to make new contacts with emergency physicians in the private sector hospitals. There may be further opportunities for a return visit to collaborate.

Lipika writes about the experience "...a lot of frustration at the corruption in the system, lack of EMTALA protections, the stark difference between the haves and have nots. It's funny because one of the residents here in Moz was just talking about how she had considered medical tourism to India to get Lasik, and my parents were talking about if they needed an MRI of anything they should do it there because apparently you can get an appointment slot same day and have it read all for \$100 USD. Yet you still have ambulance drivers openly talking about taking bribes, or hospitals not wanting to accept patients that might negatively affect their mortality numbers.

It was cool to work with some of the residents. The Masters in Emergency Medicine program at Indiana Hospital in Mangalore is the only EM training program in that city at this time, and it's a city the size of Virginia Beach, with something like 20 hospitals and six medical colleges."

MARCH

March was a full four weeks of travel for Lipika to Maputo, Mozambique. This was directly on the heels of Cyclone Idai, which struck north of Maputo with a known mortality of 750 and displaced 11,000 residents. Some of the attending physicians and two residents were deployed from the university hospital where Lipika was working to provide aid. It was agreed that it was best for her to assist at the academic hospital and Lipika helped with local patient care, and teaching students and residents. This changed the initial focus of the trip, which was to examine possibilities for EMS development.

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Lipika writes of this experience as well, "It has been nice getting to know the residents here too. I think I mentioned three of the six are up in Beira helping cyclone victims, so we are short staffed. However, the ones I have had the chance to work with here seem really motivated and I see them being excellent future leaders in EM. I see them already teaching the generalists (who are fresh out of med school and expected to operate in the ED independently!) with US and procedures and general management, which is great."

Lipika was invited to speak on "*Acute Diarrheal Illnesses*" and "*Childhood Rashes*" for the department and participated in a journal club.

ON THE HORIZON

There is a visit in planning for two head nurses from Trinidad in May to observe our ED nursing practice in the US, learn about our venues that we have created to seek solutions for triage bottlenecks and ED boarders. This is likely to be a four-day stay funded by their hospital and we are aiming to overlap the EMHPT meeting that month and set up observerships at Norfolk General and Leigh. These nurses are diligently working to secure their funding currently. Hopefully that will happen and we can welcome them in May.

This summer, there are two PI projects starting in Senegal and Trinidad - Through IVUmed and a generous donor's grant for this purpose, there is funding for an EVMS MPH student and an MPH student from another US university to assist in this project. Additionally, Alex Leader, EVMS Director of Global Health and Peds EM colleague, has secured funding for two medical French EVMS medical students for a one-month rotation in Francophone Dakar to help on the Senegal project, as well as looking at specific surgical outcomes before and after IVUmed training workshops. This experience can help us grow similar types of outcomes evaluations for future EM training in resource limited settings.

Another opportunity is under exploration at Coptic Hospital in Nairobi, Kenya, where emergency medicine training is needed to strengthen delivery of care in the community. This is a connection through the family of one of our EVMS medical students, Miriam Fahim - more to come!

PA EM Fellowship (Eric Deutsch, MD; Fellowship Director):

Ben Cavin, Abby Hoobler, and Heather Lustig are hitting the home stretch of their fellowship year. They have been spending time on off-service rotations and will attend SEMPA meeting this month. If you work with them clinically over the next few months, please impart to them as many pearls of clinical wisdom as you can!

We are pleased to have signed three new fellows for next year. Joslyn DeSignore is a current Tier one PA who will be expanding her knowledge base in fellowship. Matt Lillis comes to us as a new graduate from Shenandoah University and will start in the coming months. Whitney Stacy graduates from EVMS this May and will start this summer. Please welcome them!

Journal Club

This quarter our topics of interest covered several different areas. In January, our JC discussed pulmonary embolism, including diagnosis, and treatment options. A thorough discussion took place regarding those newly diagnosed, and whether they can safely be treated without hospitalization. In February, we looked at a few novel clinical applications of tranexamic acid (TXA) in the ED setting. Interestingly, TXA has been around since the 1960's. We discussed the use of TXA as an adjunct in particular patient populations, including the trauma setting, CT surgery and post-partum hemorrhage. Finally, In March, we discussed alternative approaches to pain management in ED patients with acute pain syndromes. We reviewed reports by the CDC on age-adjusted rate of drug overdose deaths that demonstrated an increase from 6.1 per 100,000 standard population in 1999 to 16.3 in 2015, an overall average increase of 5.5% per year. There have been a host of initiatives such as the AAEM white paper, ALTO (alternatives to opioids) programs, prescription monitoring programs, and even legislation (ALTO bill). Dr. Sergi Motov has published extensively on the use of alternatives such as ketamine and lidocaine and was interviewed on EmCrit regarding the opioid-free ED. We also looked at some of the more widely cited data on these alternative agents, shared some experiences using them, and hopefully provided some guidance on the appropriate use of these adjuncts.

For more information or to read more about these topics and others, please visit our Journal Club website at www.emjournalclub.com.

Upcoming Events

Below are some of the upcoming events and activities within the department.

Grand Rounds	Every Thursday – 10am – 3pm (except: May 23 rd)
Journal Clubs – 6:30pm	Apr. 29 th & May 20 th
SAEM Annual Meeting	May 14 th - 18 th
27th Annual Resident Research Day	May 23 rd
Memorial Day – (EM office closed)	May 27 th
Residents & Fellow Graduation	June 4 th
Oral Boards	June 6 th
Faculty Retreat	June 10 th

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