



DEPARTMENT OF EMERGENCY MEDICINE
2016 ANNUAL REPORT

UPSTATE
MEDICAL UNIVERSITY



Upstate Emergency Medicine

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MESSAGE FROM THE CHAIR

The 2016 Annual Report for the Department of Emergency Medicine reveals a department that is growing in clinical and academic stature. More than 100 individuals support education of students, residents, and clinical practitioners through multiple formats including medical simulation. These individuals also advance EM knowledge through research publication and presentation. The clinical emergency departments at the Community Campus and the adult and pediatric EDs at the Downtown Campus care for the sickest patients in Central and Northern New York. All acute care programs for the University center in the emergency departments and the majority of inpatients cared for at University Hospital enter the system through our EDs. Our subspecialty care includes Hyperbaric Therapy, Wound Care Therapy, Medical Toxicology, Addiction Medicine, Prehospital Medicine, Wilderness Medicine, International Medicine, point of care Ultrasonography, Pediatric Emergency Care, and Pediatric Urgent Care. Most importantly, the Department of Emergency Medicine is a critical public resource and a key component of the medical and social safety net.

OUR MISSION

The Department of Emergency Medicine at SUNY Upstate Medical University exists to promote the specialty of Emergency Medicine and related specialties through excellence in patient care, education, and research.

OUR VALUES

1. Quality emergency care is a fundamental, individual right and is available to all who seek it; and we practice this in our own ED.
2. There is a body of knowledge unique to Emergency Medicine that requires continuing refinement and development. We strive to acquire skills and resources for research to advance it. We strive to be its exemplary role models and teachers.
3. Board-certified, credentialed emergency physicians best practice quality Emergency Medicine, and we train our students and residents to do the same.
4. The best interest of the patient is served when emergency physicians practice in a fair, equitable, and tolerant environment supportive of diversity.
5. We value each practitioner's professional and personal growth, and acknowledge the need to balance both.
6. The emergency physician has the responsibility to play the lead role in the definition and evaluation of quality emergency care.
7. Patients deserve compassion and preservation of dignity in the care they receive.
8. A respect for diversity is one of our core values. We are committed to recruiting and supporting a rich community of outstanding faculty, staff and residents/fellows.

APPOINTMENTS/PROMOTIONS:

NEW FULL TIME PHYSICIAN/FACULTY MEMBERS:

- David Andonian, MD, MPH
- Leah M. Bennett, MD, MPH
- Kevin E. Gaskin, MD
- Eric Hojnowski, MD
- Samantha Jones, MD, MS
- Anthony Klimek, MD
- Asalim Thabet, MD

PART TIME/PER DIEM PHYSICIANS:

- Nicholas Nacca, MD
- Caitlin Stiglmeier, MD (After Hours)
- Christopher DeLaney, MD (After Hours)

ADVANCED PRACTICE PROVIDER (APP) STAFF:

- Victor Rodriguez, PA

FACULTY PROMOTIONS TO ASSOCIATE PROFESSOR:

- Brian Kloss, DO, JD

AWARDS

- **Richard M Cantor, MD, FAAP, FACEP** was recognized with the 2016 Physician of the Year Award by the Board of Directors of the New York American College of Emergency Physicians (ACEP). This award was created to recognize contributions to the advancement of emergency medicine in New York State. Recipients demonstrate outstanding dedication and commitment to the improvement of quality patient care and the advancement of emergency medicine in New York through clinical, research, educational and/or administrative activities. The achievements of the recipient have enhanced the state's health care system and advanced the profession of emergency medicine. The award was first presented in 1994.
- **William Grant, EDD**, earned the status as a 2016 Outstanding reviewer for Academic Emergency Medicine (AEM). Dr. Grant was selected by a panel of senior staff and editors from AEM based upon his percentage of review requests accepted, and then the timeliness and quality of his reviews as judged by the decision editors. This designation means that Dr. Grant is among the top 2% of all reviewers at AEM.
- **Jeanna Marraffa, PHARMD, DABAT, FAAC** was the recipient of the 2016 New York State American College of Clinical Pharmacy Educator of the Year Award.

RETIREMENTS

N Heramba Prasad, MD, Associate Professor (21 years of service)

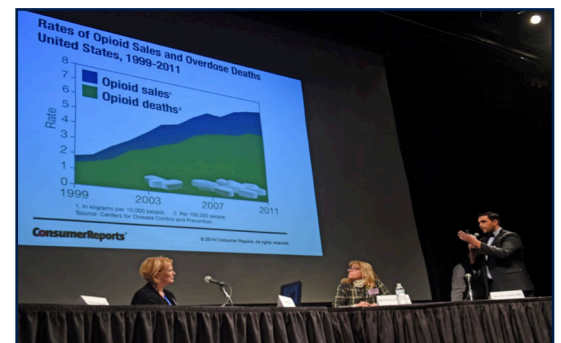
NEW STAFF

- **Randy Klein, BBA** joined us in May as our Assistant Business Manager. Randy has extensive experience in business operations and finance-related roles. Most recently Randy was the Program Controls Manager for a large international Engineering and Project Management Firm based in Overland Park Kansas. Randy also has several years experience in Medicare Provider Audit, Reimbursement, and Budget.
- **Lauren Pacelli, BS** joined us in April as our Emergency Department Research Associates (EDRA) Program Coordinator & Assistant Research Coordinator. Lauren's role is to coordinate and expand our volunteer EDRA program and to assist with other Emergency Medicine, Hyperbaric Medicine, and Wound Care Center research studies.
- **Jennifer Patrick, RHIT** joined us in July as a Coder. Jennifer graduated from Onondaga Community College in December 2015 with an A.A.S in Health Information Technology. She also recently became a credentialed, Registered Health Information Technician with 1 year of coding experience.
- **Christine Podolak, MS** joined us in May as our Associate Research Coordinator. Christine assists with completion of projects in collaboration with investigators within and outside the institution, project design and evaluation, management of resources, assures regulatory compliance, assists with grant/contract development and maintenance, analysis of data and preparation of reports, and assists with manuscript development and submission.
- **Trina Skeele, RN, BSN** joined us in October as our Patient Safety/Quality Manager. Trina was a Clinical Training Specialist for Upstate's Emergency Department from 2013-2016 and worked as an RN in the Downtown Emergency Department from 2006-2013. Prior to that she was a PSL/Staff RN in the Surgical Intensive Care Unit at Upstate from 1998-2006.

DEPARTMENT INITIATIVES IN 2016

New Billboard: We successfully implemented a new billboard with our Marketing and IMT teams. This billboard promotes our Emergency Departments both Downtown and Community Campus and provides live updates on wait times at both EDs.

Medical Toxicology Bridge Clinic: Ross Sullivan, MD has begun work on a plan to provide a Bridge Clinic with the formation of a Hospital Team to provide a comprehensive response to the rising problem of substance addiction in our community. The goal of the Bridge Clinic is to provide immediate treatment for patients presenting to our Emergency Departments with addiction problems. A business plan with financial modeling has been prepared and we are excited to see this new service develop in 2017. In the picture below, Dr. Sullivan, at right, speaks on the Prevention of Addiction and the Role of Physicians and Community. A community forum on the opiate and heroin epidemic held at the Civic Center Carrier Theatre in Syracuse.



Emergency Medicine (EMMED) Research Bulletin: In the 2nd half of 2016 we began quarterly distribution of the EMMED Research Bulletin to promote greater awareness of department research activities and continuous education on conducting successful research to our faculty, residents, fellows, medical students, and Emergency Department Research Associates.

Emergency Medicine Patient Experience Curriculum: Louise Prince, MD has begun incorporating a new patient experience curriculum as part of the emergency medicine Adult Internship rotation to determine if this experience has any impact on students' patient-centeredness. The previously validated Patient-Practitioner Orientation Scale (PPOS) is being used to determine if there is a difference between pre and post patient experience scores. Additional study team includes Susan Wojcik, PhD, William Grant, EdD, Vincent Calleo, MD (resident) and Kara Welch as co-investigators.

New Pediatric Emergency Medicine Location: Opened on 8/9/16, the \$3 million expansion doubled the size of the previous unit and relocated emergency care for children to the hospital's fourth floor, making it separate from the adult emergency department. "This isn't just a little expansion," said Pediatric Emergency Department Director Richard Cantor, MD. "This is a brand new pediatric emergency department that quite frankly, and I know this from the other places, is the nicest one in New York State."

The new pediatric emergency department features 18 private exam rooms with a capacity to serve 24 patients. The renovated space also has its own pediatric-friendly diagnostic radiology unit, meaning children do not have to leave the unit for some diagnostic tests. The space has been designed and furnished with kids in mind, with plenty of gaming systems for all ages. It's decorated with whimsical designs and generous splashes of color, all aimed at lessening the anxiety for young patients. The renovation was supported by contributions from the community, which raised more than \$1 million to aid the effort.



Fellowship Program Research Seminar Series: This seminar series provides an in-depth understanding about conducting independent research for the department's fellowship programs. The series covers topics including understanding the effective design of research projects, data preparation, data analysis with Statistical Package for the Social Sciences (SPSS), critical appraisal of literature, and peer reviewing. This year's series has been updated to a total of 24 contact hours (12 hours Small Group Discussion and 12 hours of Asynchronous Learning Modules).

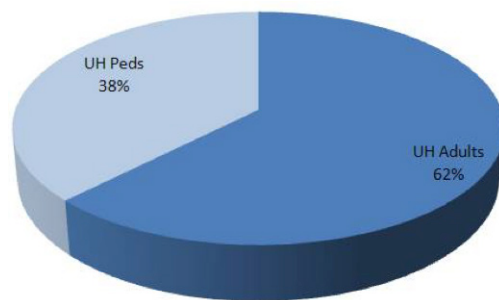
New Emergency Medicine Resident Research Curriculum: Drs. Wojcik and Grant developed and implemented a new EM Residency research curriculum. The new curriculum incorporates the accreditation model of milestone achievements. Residents should have their projects completed by the end of their 2nd year of residency and must submit an abstract for presentation at a scientific meeting.

CLINICAL EMERGENCY DEPARTMENT (ED)

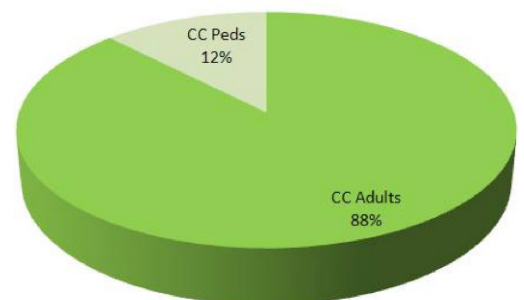
We are an urban, level 1 trauma and tertiary care center staffed by resident physicians, advanced practice providers, and board-eligible/board-certified emergency attending physicians. Our Downtown Campus ED is comprised of both adult and pediatric emergency units while our Community Campus ED is unique that it has a separate Geriatric Emergency Medicine Care unit. The department is a major referral center with a catchment area of 19 counties for many medical and surgical services such as trauma and pediatrics.

In 2016, the department treated 102,262 patients in the EDs:

Downtown Campus ED

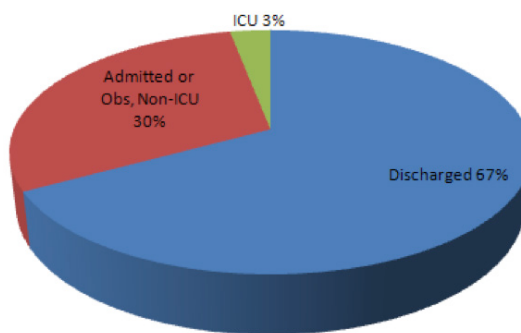


Community Campus ED

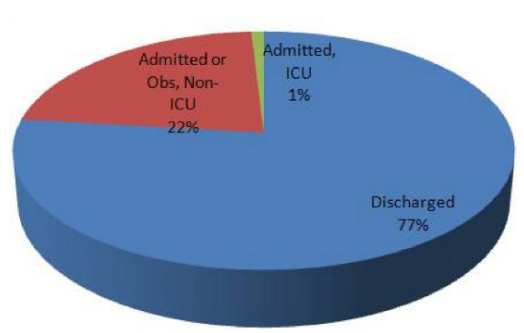


Our ED serves a complex and acutely ill patient population as evidenced by our admission statistics.

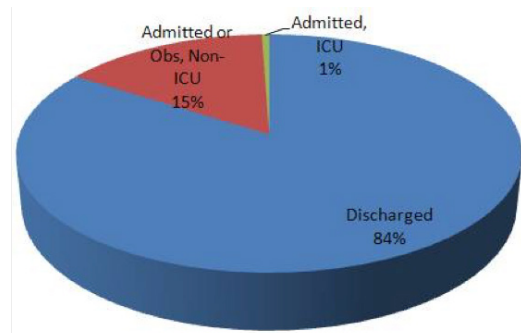
Downtown Campus, Adult Patients



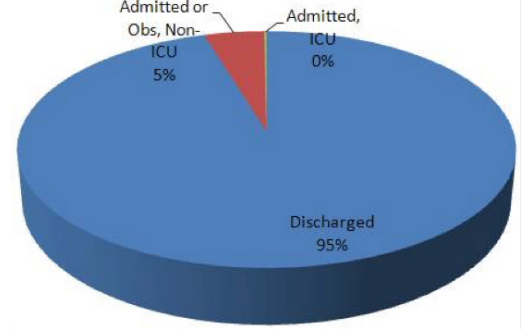
Community Campus, Adult Patients



Downtown Campus, Pediatric Patients



Community Campus, Pediatric Patients



GERIATRIC EMERGENCY MEDICINE CARE AT COMMUNITY CAMPUS

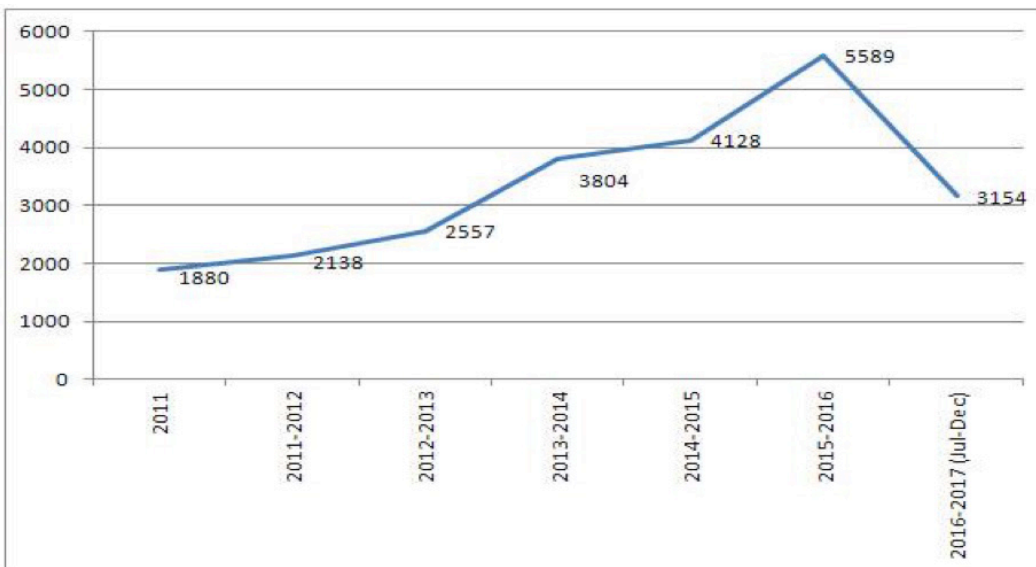
Goal of Geriatric Emergency Medicine (GEM) Care is to decrease the admission rate of seniors. This is accomplished through extensive ED evaluation. Pharmacists evaluate the medication regimen for appropriate dosing and risks of side effects. They also provide consultation to providers on appropriate medication choices. Social Workers evaluate the home and family support, investigate for elder abuse, and counsel the patient and family. Case Management, assisted by Social Work, set up outpatient services (such as visiting nurses or home health aides) as needed, and can help to arrange for follow up.

The admission rate of patients over the age of 65 before the advent of the unit was 44%. In 2016 the admission rate continues to be closer to 36%.

WOUND CARE CENTER

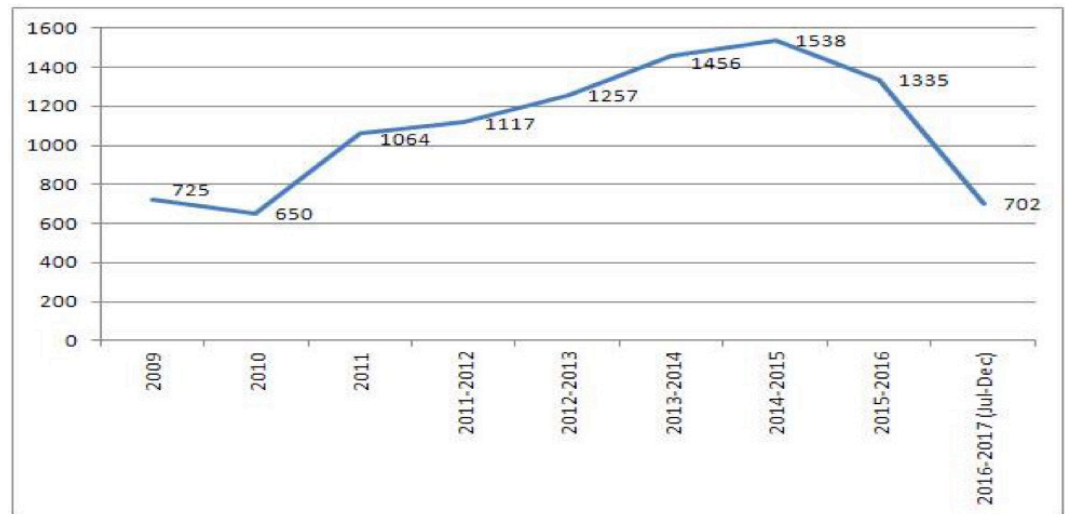
The Wound Care Center has seen dramatic growth in patient visits over the past 7 academic years (July-June). We are closing in on maximum capacity with our current space. The referral stream is strong and current waiting times for consultation have grown to nearly 4 weeks.

We have introduced new treatment modalities in the last year. These include a new placental tissue based skin substitute and MIST therapy which is a low-frequency ultrasound treatment for chronic non-healing wounds. We were only the 2nd center in NY State to begin use of MIST therapy.



HYPERBARIC MEDICINE (HBO) CENTER

Our current HBO volumes have been fluctuating around maximum capacity of approximately 1400 treatments per year since 2013-2014. 2014-2015 was an outlier above maximum capacity due to a high volume of after-hours and add-on urgent treatments. 2016-2017 is back on track to reach expected maximum capacity.



We have secured funding for a new 8-10 person capacity multiplace chamber. We are actively working with the hospital on this project. Based on our HBO waiting list over the past 3 ½ years it is our expectation that HBO volume will rise with this increased capacity. These volume increases can occur without any increase in current staffing, allowing for an increase in revenue and the overall bottom line.

In March 2017, we will provide the third annual HBO teaching day for EM residents. We host the EM-1 residents for a 2 week rotation in HBO/WC, host 4th year medical students, and provide resident electives. We are also developing an established outpatient specialty clinic rotation for IM-2/IM-3 residents with Internal Medicine.

HBO faculty have presented nationally at the UHMS Scientific Meeting, UHMS NE Chapter Meeting, and ACCWS Annual Symposium. HBO faculty have been invited to speak at regional conferences in Buffalo and Syracuse and at the national SAWC/WHS meeting (the largest national wound care conference).

Research: There are 3 prospective clinical trials currently active in HBO/WC. One of the prospective studies is supported by an industrial grant. We presented 5 poster presentations and 1 oral presentation at UHMS Scientific Meeting in June 2016. We have had 3 published manuscripts, 5 published abstracts, and 2 published book chapters. We are currently completing an invited manuscript review and book chapter.

Service: HBO faculty serve on hospital committees, lead national committees, and serve on the board of national wound care and hyperbaric medicine organizations. HBO faculty serve as assistant editor and reviewers for wound care and hyperbaric medicine journals. We continue to support the NYS Police Dive Recovery Team.

UPSTATE AT HOME

The Upstate At Home pilot continued in 2016 and further developed relationships with many Long Term Care Facilities, Home Health Care providers and Insurers. The original aim of Upstate At Home was to see patients in their homes to assist in avoiding unnecessary trips to the Emergency Department. As we progressed we found our market niche more closely aligned with partnering with facilities to avoid costly and difficult transports to the ED for residents of the facilities. We plan to continue to explore partnerships with other services at Upstate in the coming months.



UPSTATE GOLISANO AFTER HOURS CARE

Pediatric After Hours was the recipient of a \$6000 grant from the Upstate Foundation. Two new faculty were recruited and a total of 6,380 patients were seen in 2016. Hours of operation have been optimized to better reflect patient volumes.



UPSTATE NY POISON CENTER (UNYPC) AND TOXICOLOGY CONSULT

Provides poison center services for 54 counties within Upstate New York with a population of 7.42 million. Staffed 24/7 by staff, certified in Poison Information.

Boarded clinical and medical toxicologists provide real time oversight and consultation in defined or requested cases. Also provides education and outreach, research and consultative services to healthcare learners. The center is a rotation site for more than 60 learners each academic year and provides support and collaborative service to the public in the form of public education and policy consultations. The center also participates in public health partnerships with local, state and national departments of health and collaborates with law enforcement and other governmental agencies.



SELECTED STATISTICS:

UNYPC Call Volume 2016:	53,745
UNYPC Call Volume 2016 for Human Exposures:	45,871
Upstate Medical University, DT Campus Consults:	856
Number of Emergency Medicine Resident Rotators:	9
Number of Resident Rotators from Pediatrics and Medicine:	9
Number of MSIV Rotators:	29
Number of PharmD Candidate Rotators:	16
Number of PharmD PGY-1 Resident Rotators:	6

Summary of Educational Activities with Toxicology Faculty:

- Quarterly core content lectures to SUNY Buffalo EM residents
- Quarterly NYS Toxicology Newsletter
- Toxicology Blog: <https://upstatenypoisnecenter.wordpress.com/>
- Organize and host Annual Toxicology Teaching Day (past 20 years)

- Teach ½ day toxicology teaching days to EM residents with participating toxicologists in Buffalo and Albany
- Participate in EM Department teaching days
- Organize a quarterly series called Combined Toxicology Grand Rounds which is a joint conference with Onondaga County Medical Examiner's Office and Toxicology Lab to integrate and collaborate clinical and forensic toxicology

EM DEPARTMENT ACADEMIC ACTIVITIES

GRADUATE MEDICAL EDUCATION (GME)

Residency – William Paolo, MD, Program Director

Clinical Overview

The emergency medicine residency was established in 1992 and is now recruiting for its 25th class of emergency medicine residents. The department consists of 33 residents. (11 x 3 years) who take care of a combined total of > 100,000 ED patient visits/year (~ 70,000 at Downtown Campus and ~ 30,000 at Community Campus) covering all ages of life from the specialized pediatric emergency department to the geriatric emergency department at Community Campus. The residents come from a diverse medical school background and have gone on to become chairs, program directors, and leaders in the field of emergency medicine.

Educational Programs

The department of emergency medicine and its residency host and produce a multitude of educational programs for the residents, medical students, fellows, and allied health professionals who it serves. Our 33 residents spend 5 hours per week in a multimodal learning environment in order to become prepared to be excellent emergency physicians. Training includes small group breakout sessions, simulation, case-based learning, and small group year specific learning. In 2016 the department moved to a more advanced format with 1 hour of online asynchronous content followed by all integrated simulation, procedural laboratories, and case based/problem based learning replacing traditional didactic lectures.

Our department hosts a quarterly grand round series inviting national leaders in the field of emergency medicine to speak on diverse topics from healthcare reform to basic clinical skills and interactions. Our speakers have been from a vast array of national bodies including the board of directors of American Board of Emergency Medicine, board of directors of American Academy of Emergency Medicine, and national American College of Emergency Physicians.

Research Activities

All residents are required to perform scholarly activity, a Quality Initiative (QI) project, and provide 4.5 hours of didactic content during their time at SUNY Upstate (1 hour Teaching to Learn/Learning to Teach lecture, 1 hour journal club, 1.5 hours of core content, 1 hour of Morbidity/Mortality). Residents work with our research group as well as QI officers in order to accomplish these goals. We have presented at national and international meetings and continue to produce new research projects each year.

FELLOWSHIPS

Pediatric Emergency Medicine – Richard Cantor, MD, Director

The three fellows in this program are graduates of both pediatric and emergency medicine (EM) residencies. Our program is unique in the country in offering positions to graduates of EM residency programs, making it very competitive. Two of our 2016 graduates were hired into the department as faculty members, Dr. Samantha Jones and Dr. Asalim Thabet.

Undersea & Hyperbaric (UHM) Medicine – Marvin Heyboer, MD, Director

The UHM fellowship continues to maintain ACGME accreditation in good standing. Fellow graduates continue to demonstrate a high pass rate on the ABMS UHM exam on the first attempt. We are currently in our 6th year with a fellow and have successfully graduated 5 fellows. We have successfully recruited a fellow for 2017-2018. Fellows are provided with weekly didactic teaching, self-directed learning of core content with quarterly board like prep exams, and simulation training.

EMS & Disaster Medicine/Response Team – Derek Cooney, MD, Director

EMS Medicine Live is a monthly webinar series providing educational content for EMS Fellows and both community and academic EMS Physicians. Webinar course directors are Dr. Christian Knutsen and Dr. Derek Cooney from our department and Dr. Brian Clemency from the University of Buffalo. The goal is to offer both interesting topics and EMS board prep reviews. Webinars can be viewed at: <http://www.upstate.edu/emergency/education/fellowships/ems-live.php>

Medical Toxicology – Ross Sullivan, MD, Director

As of 2015, this two year fellowship has graduated two fellows including Ross Sullivan, MD who has been named the Fellowship Director at the start of the 2016 Academic Year.

Physician Assistant Fellowship – Brian Kloss, DO, Director

The PA Fellowship in Emergency Medicine is in its third year and is actively recruiting participants for our fourth class. Jamie Winslow and Mark Suchowiecki graduated in December 2015 and 2016 respectively and have earned the Certificate of Advanced Qualification (CAQ) in Emergency Medicine from the NCCPA. In order to sit for the CAQ Exam, Physician Assistants have to complete a certain number of required procedures and have worked full-time in Emergency Medicine for at least 18 months. A physician attestation of qualification and 150 hours of EM specific CME is required to take the exam consisting of 120 multiple-choice board questions. After graduating, both Jamie and Mark have continued to work as full-time providers for our group.

In 2016, Anthony “TJ” Rotello and Stephanie Brannan both completed their first six months of the fellowship and have progressed to the optional “moonlighting phase” of the program. This allows for additional midlevel coverage at our community campus and a sense of increased autonomy and responsibility for our fellows. Stephanie is electing to pursue an advanced placement paramedic training program to augment her EMT license and training.

The Fellowship was created with the support of Dr. Gary Johnson and the department to provide a clinical and didactic program to prepare physician assistants to gain the knowledge, experience and competence to work collaboratively in a high-volume, high-acuity emergency department. For the first six-months fellows rotate through the pediatric and adult ED to develop their skills and gain a sense of ownership of the department and their patients. Fellows also do rotations at the Crouse Medical ICU, the Upstate Surgical ICU, ophthalmology, outpatient orthopedics, toxicology, hyperbarics/wound care, ultrasound, burn unit, anesthesiology and have options to do EMS ride-alongs, CCU, and other electives which can be arranged to match their interests. In the last six

months of the fellowship, participants can choose to focus on specialty areas of EM. Jamie chose to focus on pediatric EM and Mark was actively involved in teaching at the LeMoyne PA Program.

The fellowship essentially allows for on-the-job training in a supervised environment with the objective of creating highly competent EMPAs who, upon graduation, are offered fulltime positions within the department. Our PA Fellows and graduates are actively involved in teaching ACLS, PALS and PA students. As our success continues and our pool of graduates grows, we are hoping to have the PAs become more involved in education and potentially precept PA students in the ED.

The program would not be the success it is today without the support of Dr. Johnson and all of those in the department that work with our fellows on a daily basis. Special thanks are in order for Kara Welch and the EM Chiefs, for all of their support with scheduling and managing the daily logistics of the program.

International Emergency Medicine (IEM) – Jay Brenner, MD, Director

The IEM Fellowship began upon the hiring its first ever fellow on December 1, 2016. Dr. Inna Lozanovskaya is the Fellow. Dr. Lingappa Amernath, Dr. Eric Shaw, Dr. Paul Ko, Dr. Mark Polhemus, and Dr. Christopher Morley are the faculty. Lisa Vogtle is the Fellowship Coordinator. The academic curriculum includes Master in Public Health courses, the Johns Hopkins Health Emergencies in Large Populations course, the International Society of Travel Medicine course, an Ultrasound course in Peru, a Board Review course, Fellows conference, Presentation at the Contemporary Issues in Emergency Medicine conference, Submission of Abstracts to Medical Society of State of NY and NY American College of Emergency Physicians, Weekly Global Health Milestone review, the St. Lucia Resident elective, and the KIMS International Faculty experiences.

UNDERGRADUATE MEDICAL EDUCATION (UME)

Matthew Sarsfield, MD, Medical Director

Practice of Medicine (MSI and MSII):

Several EM faculty taught as POM small group preceptors during the 2015-2016 and the 2016-2017 academic year including:

Dr. Thomas Lavoie	Dr. Tyler Greenfield
Dr. Risa Faber-Heath	Dr. Alison McCrone
Dr. Kelsey Stack	Dr. Vincent Calleo
Dr. Elizabeth Nicholas	Dr. Eric Hojnowski
Dr. Christine Courtney	

Since 2015, approximately 350 POM II students have shadowed in the ED with our faculty. Every POM I and II student completes sessions in the EMSTAT simulation lab.

Emergency Medicine Clerkship (MSIII)

The required Emergency Medicine Clerkship started in 2008 and has always been a student favorite. We have been extremely successful this year in implementation of our new three-week Clerkship, with excellent feedback from the students. Our new curriculum added additional ED shifts, a "How to Present Patients/Note writing" lecture, an "Intro to Ultrasound" lecture with hands-on session, and Overdose/Addiction/Responsible Prescribing Simulation Case and discussion.

Every 3rd year medical student comes to EMSTAT during the academic year to complete orientation and simulation training regardless of the clinical campus they have been assigned. We have also named Dr. Lindsay MacConaghy as the Assistant Clerkship Director. We continue to receive praise for the education provided by our teaching attending:

Dr. Matthew Sarsfield	Dr. James Mangano
Dr. Lindsay MacConaghy	Dr. Elizabeth Nicholas
Dr. Jennifer Campoli	Dr. Risa Farber-Heath
Dr. Thomas Lavoie	

Quotes from EM Clerkship Students:

"The environment of the ED allows the student to participate in the primary investigation of a patient's chief complaint, which is refreshing as it is one of the only clerkships that provides this. There was also ample opportunity to take part in procedures such as ultrasound, suturing, casting, placing IVs etc. Due to the level of interaction, the amount learned on a day to day basis is far greater than other clerkships and I recommend adding more time for students in the future due to the educative nature of the clerkship."

"EM was a fun and interesting clerkship. I was able to see a lot of patients on my own. This helped me hone my history, physical exam, and presentation skills. Additionally, I learned a lot clinically from working with patients with a vast variety of presentations."



Acting Interns or AI's (MSIV – Adult and Pediatric EM Rotations):

In 2016, 39 students completed the Adult AI, 14 of which were visiting from other institutions. The students work shifts in the ED and have a didactic lecture/simulation series one day per week taught by our EM faculty. It is one of the more popular electives with Upstate students, with 25 students completing the Pediatric AI.

"The faculty and residents made a point to have me see as many patients as I could. They helped me come up with an assessment and plan at the end of my presentation and toward the end of the rotation helped me put in orders."

- Adult AI student

Medical Student Research

The EM undergraduate education group was active in educational research. We completed a Handoff Project with the MSIV AI students. The abstract was accepted as an oral presentation at the Council of Emergency Medicine Residency Directors (CORD) annual meeting in Nashville, TN. We have also submitted an abstract for this year's annual meeting on students participating in a patient experience session.



Electives (MSIV)

Our department continues to offer additional electives which have been popular with our fourth year students. These include Teaching and Simulation (1), Clinical Toxicology (31), Ultrasound (7), EM Research and Hyperbarics (3).

Emergency Medicine Student Advisement

Our group is very active in student advising. Each year, we have a strong showing of faculty at sessions held by the medical school. Students interested in EM also meet frequently with Dr. Sarsfield. Additionally, we hold an annual question and answer session with the students which Drs. Johnson, Sarsfield and Paolo attend. Last year, we had 20 students from the Class of 2016 successfully match into EM.

Emergency Medicine Interest Group (EMIG MSI – MSIV):

Activities include lectures from Dr. Gary Johnson and Dr. William Paolo as well as an IV insertion clinic. The department also hosted a full day EMIG Simulation Event on 9/24/16 and 20 MSIs and MSIIIs participated. The event had 4 stations, which included an airway training station, EKG interpretation station and 2 hands-on high fidelity simulation sessions.



AMERICAN HEART ASSOCIATION LIFE SUPPORT PROGRAMS

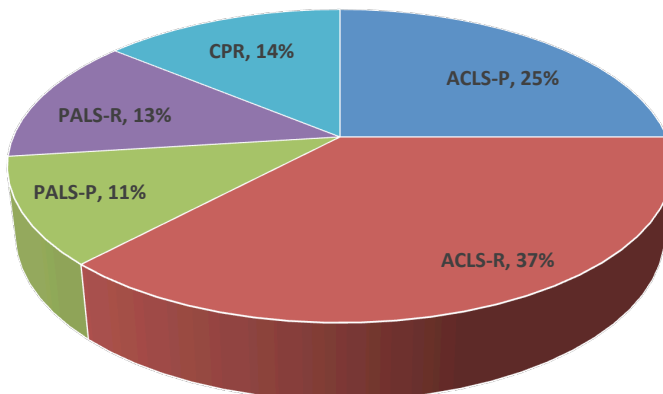
Since 2004 the EMSTAT center has seen a steady growth of medical professionals being trained in Advanced Life Support programs. There are five types of courses that we offer which include: Advanced Cardiac Life Support Provider (ACLS-P), Advanced Cardiac Life Support Refresher (ACLS-R), Pediatric Advanced Life Support Provider (PALS-P), Pediatric Advanced Life Support Refresher (PALS –R), and CPR HeartSaver. All of these courses are credentialed by the American Heart Association. Instructors are recruited and rigorously trained to provide the best student experience possible.

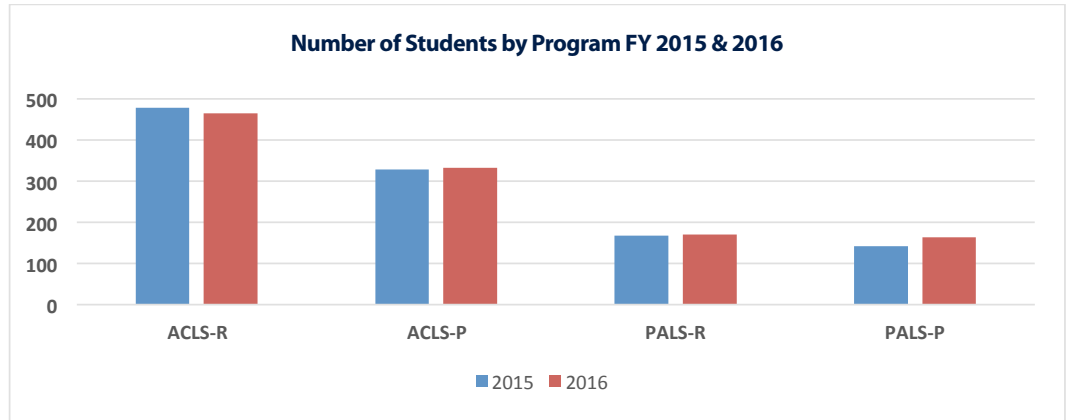


2016 we held two Instructor Training sessions for future instructors. 40% of these students were from outside organizations which sent their Instructor Candidates to us for this classroom and practicum experience. This program welcomed Dr. James Mangano as co-course director in 2016. In addition to introducing the new course curricula and guidelines these programs had an outstanding review audit from the American Heart Association. These programs are also instrumental to first year residents in their Teach to Learn and Learn to Teach (TLLT) segment of their Emergency Medicine Residency training.

The total number of students that completed the ACLS and PALS courses had a 1% increase in 2016 (from 1294 to 1309). The majority of our students come here for ACLS. Those trained in CPR in 2016 were predominately first time students of CPR. For year 2017 there will be many more trained as many will be returning for their refresher course.

Types of AHA Courses Taught





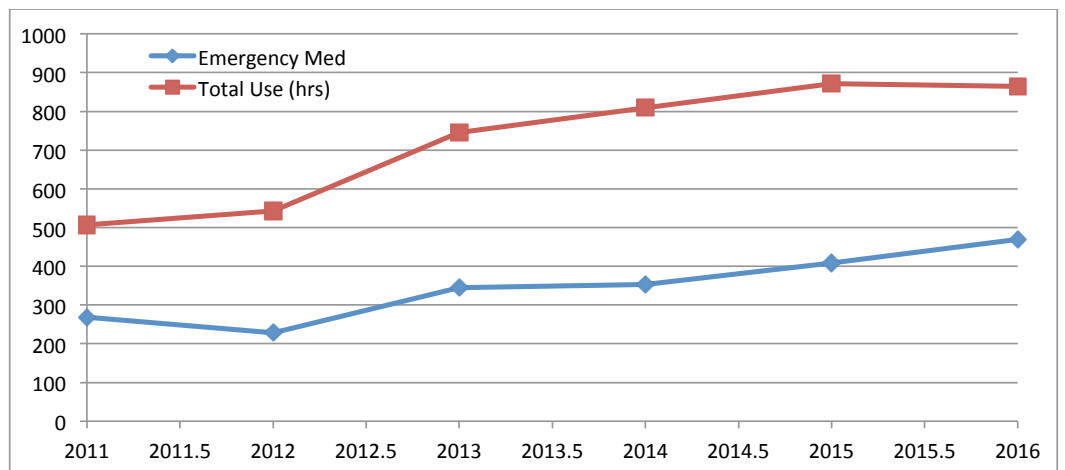
PUBLIC ACCESS DEFIBRILLATION PROGRAM (PAD)

The Emergency Medicine Department manages the Public Access Defibrillation program on the University Campus and Hospital in non-clinical areas. There are an additional 26 locations that are either hospital owned or University owned throughout Onondaga County. This program consists of strategically placing Automatic External Defibrillators (AED) throughout campus and hospital properties, and training lay people to perform CPR and use the AED in a cardiac arrest emergency. Each month these AEDs are inspected to ensure that each device is functioning properly. This past year, the number of deployed AED's has grown from 82 to 92. January of 2016 the previously aging AEDs were replaced with new Zoll AED Plus models. 178 people were trained in CPR/AED use this past year.

EMSTAT SIMULATION CENTER ACTIVITIES

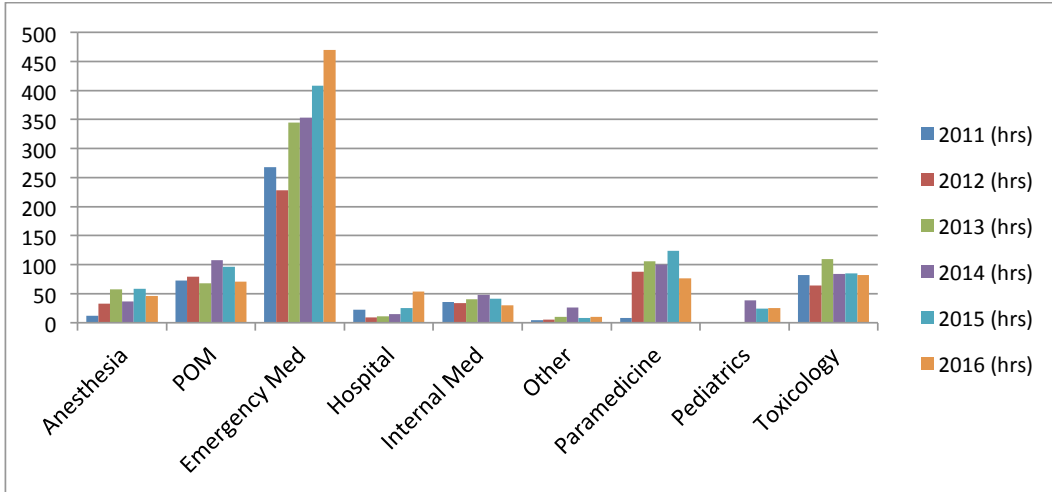
The EMSTAT Simulation Center has experienced a continuous increase in utilization since 2012. As is shown in the graph below, the Total Hours of Use significantly increased between 2012 and 2013 and had a more moderate and steady increase from 2013 to 2015 with a plateau this past year. The Emergency Medicine utilization of the Sim Center during the same time periods had a slight decrease between 2011 and 2012, but has very moderately increased since 2012.

We expect that 2017 will continue to show that Emergency Medicine utilization of the simulation lab will continue to increase due to the change in resident education that includes more simulation and skill development.



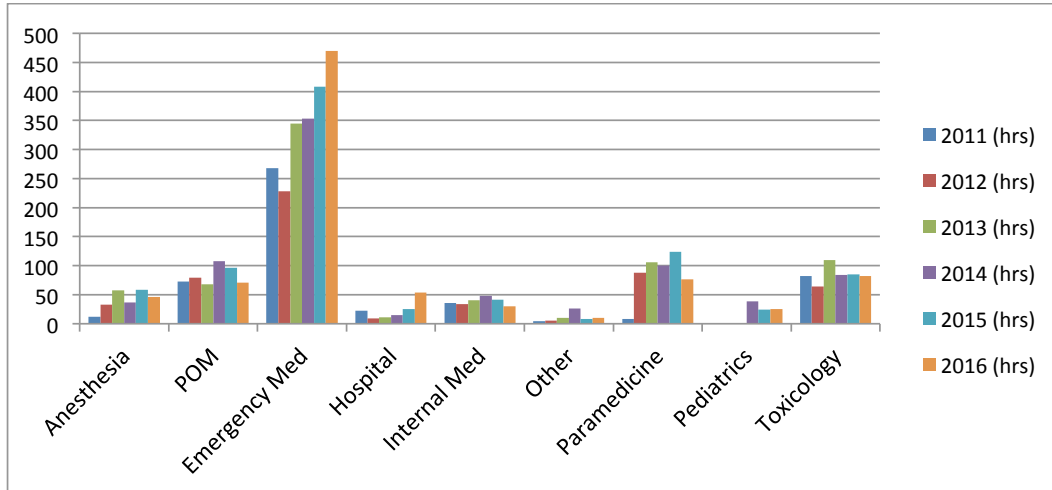
EMStat Utilization (in hours) between 2011 and 2016. The Total Hours are indicated by the square boxes and Emergency Medicine hours are represented by the diamonds.

Simulation Center Use by Department and Year



The Simulation Center is heavily utilized by Emergency Medicine and its ancillary and affiliated programs (Paramedicine and Toxicology) far above any other group. Other departments utilized the EMStat Sim Center much less, but fairly consistently over several years.

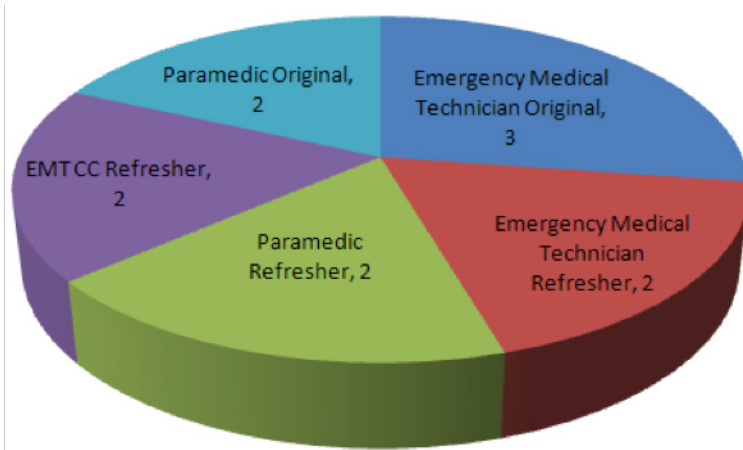
EMStat Simulation Center Use by Learner Groupings, all Departments



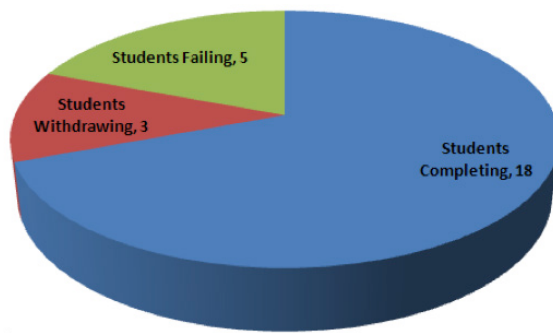
In this graph, the single largest learning group utilizing the Sim Center is the College of Medicine across all four years of medical school. The 2nd largest learning group is the residents from all of the programs throughout the hospital. I would expect that both groups will continue to increase their utilization of the Simulation Center in coming years.

EMERGENCY MEDICAL SERVICES (EMS) EDUCATION PROGRAMS

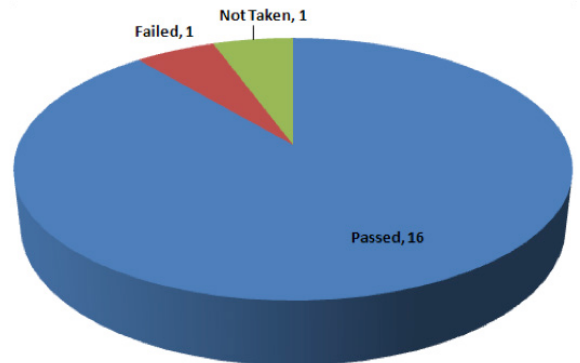
During 2016 our Emergency Medical Services (EMS) Education Programs offered 11 New York State Department of Health Bureau of EMS Certification Programs. Included among these were numerous original certification and recertification courses for Emergency Medical Technician, Emergency Medical Technician Critical Care and Paramedic.



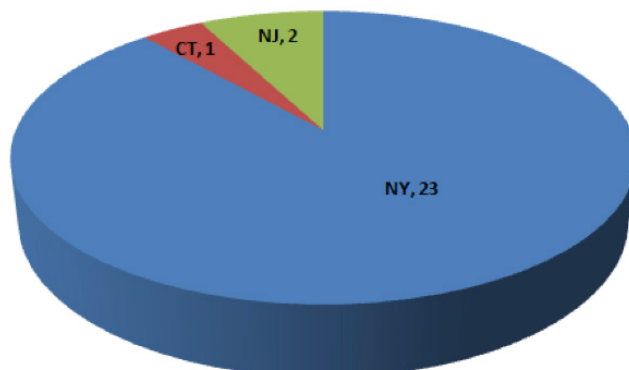
Paramedic Program Completion



NYS Paramedic Certification Exam



State of Residence



Through the generous donation of the Weinstein & Johnston Families, in partnership with the CNY Community Foundation, the Department of Emergency Medicine has created a sustainable scholarship for paramedic students and an ongoing sustainable lecture series in memory of Gail Weinstein, former Paramedic Program Director. Kevin Alexander and Carlos Rosales were the recipients of the 2016 Gail J. Weinstein Memorial Scholarship award. The Weinstein EMS Lecture Series, an annual fall event, was established with the mission to provide learning opportunities for our CNY EMS providers focused on patient-centered medicine, responder safety and quality of care.

EMERGENCY MEDICAL SERVICES (EMS) LIAISON

EMS Hospital Liaison activities continue to support our Trauma & Stroke Program; serving on numerous quality committees; ad hoc duties from Risk Management; and providing feedback and quality review for our EMS agencies within our 14 county region.

Other activities included:

- Upstate was one of the sponsors of a first responder recognition night at the Syracuse Chiefs Baseball game in June.
- Syracuse was the host city for the 2016 New York State Bureau of EMS Vital Signs Conference in October.
- Upstate sponsored a recognition night at the Syracuse Crunch highlighting the efforts and cooperation of all our first responders in October.
- As part of the Vital Signs conference the Department of Emergency Medicine with the support of the Cell and Developmental Biology department hosted a one of a kind preconference workshop on anatomy and physiology including essential procedures practice in the cadaver lab for EMS providers.

INTERNATIONAL PROGRAMS

PHYSICIAN EXCHANGE PROGRAM WITH KERALA INSTITUTE OF MEDICAL SCIENCE

For the past several years our department has run a very successful physician exchange program with the Kerala Institute of Medical Science (KIMS) in Trivandrum, India. The program allows for a collaborative exchange of information, technology and culture between our department and the KIMS EM residency in Kerala. Every quarter an Upstate physician travels to India to provide didactic lectures and clinical observation. In their senior year, Indian residents are offered the opportunity to come to Upstate for a month to witness healthcare delivery in the US. The residents participate in Wednesday lectures and rotations in: adult and pediatric EM, toxicology, hyperbarics, and wound care. The residents love their time here in Syracuse and many of the faculty have hosted them for home cooked meals, dining out, movies, pumpkin carving and of course, laser tag.

Many of our faculty have made the quarterly trek to Trivandrum India to provide didactic instruction and participate in clinical observations. Dr. Prince recently made the trip and while admittedly apprehensive prior to travel, she quickly found herself at ease and welcomed by our Indian colleagues as did Dr. Brenner.



Those that travel to India are expected to provide 15-20 hours of didactic instruction and spend time observing the delivery of healthcare in the ED, providing bedside teaching. Trips can be extended allowing for relaxation or additional travel in the region.

In August 2016 the KIMS EM residency program graduated their second class of residents, some of whom have stayed on fulltime at KIMS while others have ventured to provide EM care at other hospitals in the state. Those of our staff have been to India several times have witnessed firsthand interns mature to attending physicians.



ANNUAL DEPARTMENT TEACHING DAYS – 2017 DATES

Upstate Wound Care and Hyperbaric Medicine Symposium

February 11, 2017, 8:00 AM - 12:30 PM; Weiskotten Hall

17th Annual Contemporary Issues in Emergency Medicine

April 5, 2017, 1:00 - 5:00 PM; Genesee Grande Hotel, Syracuse

We Are One: 4th Annual Upstate Prehospital Medicine & Trauma Teaching Day

May 22, 2017; 8:00 AM – 4:30 PM; Welch Allyn Lodge, Skaneateles, NY

16th Annual Pediatric Emergency Medicine Assembly

September 20, 2017; 1:00 - 5:00 PM; Genesee Grande Hotel, Syracuse, NY

21st Annual Toxicology Teaching Day

October 25, 2017; Genesee Grande Hotel, Syracuse, NY

6th Annual Northeast Wilderness Medicine Conference

November 15, 2017; Genesee Grande Hotel, Syracuse, NY

OUTREACH/COMMUNITY ACTIVITIES

Medical Coverage for Carrier Dome Events

Our physicians provide medical coverage for spectators at all major dome events.

Medical Coverage during New York State Fair

During the Great New York State Fair, the Department of Emergency Medicine is instrumental in the public safety, health and wellbeing of fairgoers. We manage the staffing of the 24-bed Fair infirmary with Registered Nurses, Physicians, EM Residents, and Paramedic Students. Our capabilities at the infirmary include managing and treating a broad range of medical conditions from soft tissue injuries to identifying cardiac and neurologic emergencies that would require transport for in-hospital specialty care.

Our emergency physicians and EM residents treated 550 patrons, vendors, and staff in 2016. We were able to treat 390 of these patients and return them to their fair experience. Our staff also assisted an additional 500 people with routine activities like supplying personal products (sun tan lotion, over the counter medications etc.), and providing nursing mothers with a clean, air-conditioned environment for breastfeeding.

In 2016 we dramatically improved our documentation to a digital format. This format has also helped us better understand the types of illnesses and how we managed them. It also improved our communication with our patients and Fair Administration.



RESEARCH

COMPLETED PROJECTS

1. Emergency Department Management of Patients with Food or Insect Sting Allergies: the 38th Multicenter Airway Research Collaboration (MARC-38) Study

*Susan Wojcik, PhD - Site PI, Jeremy Joslin, MD - Co-Investigator
Christine Podolak, MS and Lauren Pacelli, BS - Data Abstraction*

The MARC-38 study was a multicenter chart review to investigate the characteristics, ED management, and post-ED care of 2,000 children and adults who presented to the ED with acute allergic reaction. It will build upon the success of the earlier MARC studies (which analyzed data from 1999-2001) by updating observational data from 20 North American academic and community EDs. Using a standardized protocol, investigators at each participating site performed data abstraction from the medical records of 100 randomly-selected ED patients with acute allergic reaction. Funded by a grant from Mylan Specialty L.P to the Massachusetts General Hospital. Locally received \$9000.

2. A Usability Assessment of Intramuscular, Atomized Intranasal, and Nasal Spray Administration of Naloxone by Community Members

*William Eggleston, PharmD – Principal Investigator, Susan Wojcik, PhD – co-Investigator,
Christine Podolak, MS, Lauren Pacelli, BS, Karryn Crisamore - PharmD Student*



During The Great New York State Fair we enrolled volunteers in a randomized usability assessment of intramuscular, intranasal and nasal spray administration of simulated naloxone. Participants were watched the training video for their administration method and then were asked to administer simulated naloxone on a mannequin. The study objectives were to train people in the administration of home naloxone kits, determine the successful administration of simulated naloxone by the 3 administration methods and the total time to successfully administration. Participants were then provided a free naloxone kit at the end of their participation. Naloxone kits were provided by The New York State Opioid Overdose Prevention Program.

*Naloxone Administration Study and Community Education –
Led by Dr. William Eggleston*

3. Validation of E-Health Literacy Measure

*William Grant – Site PI, Fiona Chew, PhD – Principal Investigator (Syracuse University), Susan Wojcik, PhD – co- Investigator, Lauren Pacelli, BS EDRA*s

We conducted a survey of adults age 65 years and older in the Emergency Department to learn more about how they use the internet for gathering health information. In addition we hoped to determine how this group gets the most useful and valid health information possible from the internet and other sources.

NEW PROJECTS

1. Marvin Heyboer, III, MD as Principal Investigator has developed a relationship with Wound Vision to conduct a feasibility study to compare LWIT data to Transcutaneous Oximetry data in patients with lower extremity wounds to evaluate accuracy in predicting wound healing/failure and measuring potential for hyperbaric oxygen treatment effectiveness. It is anticipated that this project will take approximately 2 years to complete for a total of \$31,625. Additional study team include William Grant, EdD and Susan Wojcik, PhD as co-investigators; Christine Podolak and Lauren Pacelli as research coordinators.
2. William Grant, EdD as Principal Investigator assisted Medical Student, Alan Shum in the development of an Opiate addition and Narcan/Naloxone Survey. This survey seeks to better understand Emergency Department views and opinions regarding prescription painkillers and heroin use in their communities and in New York State. Additional study team includes Susan Wojcik, PhD as co-investigators; Christine Podolak and Lauren Pacelli as research coordinators and our EDRA's.
3. Louise Prince, MD has begun incorporating a new patient experience curriculum as part of the emergency medicine AI rotation to determine if this experience has any impact on students' patient centeredness. The previously validated Patient-Practitioner Orientation Scale (PPOS) is being used to determine if there is a difference between pre and post patient experience scores. Additional study team includes Susan Wojcik, PhD, William Grant, EdD, Vincent Calleo, MD (resident) as co-investigators.

ONGOING PROJECTS

The following projects implemented in the Upstate Emergency Department, Hyperbaric Oxygen and Wound Care Clinic, and Department of Emergency Medicine are ongoing and data is continuing to be collected and inputted by our EDRA's and research coordinators Lauren Pacelli and Christine Podolak.

Emergency Department

- EMS Offload / Backboard Time, PI: Derek Cooney, MD
- Pediatric ED Survey, PI: Gary Johnson, MD
- Historical Features and Rates of UTI's in Children 3 months – 2 Years, PI: William Paolo, MD

Hyperbaric Oxygen and Wound Care Clinic

- Hyperbaric Oxygen and its Effect on Radiation Induced Long Term Side Effects, PI: Marvin Heyboer, III, MD
- Effect of Hyperbaric Oxygen on Glucose Levels in Non– Diabetics, PI: Marvin Heyboer, III, MD

Department of Emergency Medicine

- Comparison of CPR Performance with and without Counting Aloud, PI: Susan Wojcik, PhD

New Resident research curriculum – Drs. Wojcik and Grant developed and submitted to the Emergency Medicine Residency Director for approval of a new EM Residency research curriculum. Drs. Wojcik and Grant will provide mentorship along with a clinical mentor throughout their required research project. The new curriculum incorporates the accreditation model of milestone achievements such that residents should have their projected completed by the end of their 2nd year of residency and must submit an abstract for presentation at a scientific meeting as the final milestone to satisfy this requirement of the residency program.

Fellowship Program Research Seminar Series - This seminar series provides an in depth understanding in conducting independent research for the department's fellowship programs. The series covers topics ranging from understanding the effective design of research projects; data preparation; data analysis with SPSS; critical appraisal of literature; and peer reviewing. This year's series has been updated to a total of 24 contact hours (12 hours Small Group Discussion and 12 hours of Asynchronous Learning Modules)

PUBLICATIONS

(Links to full text and PubMed here: <http://upstate.edu/emergency/research/publications.php>)

Biondich AS, Joslin JD. Quantifying the “Slosh Stomach”: A Novel Tool for Assessment of Exercise-Associated Gastroparesis Symptoms in Endurance Athletes. *J Sports Med.* 2016;2016:1276369.

Thornton MD. Lower-Extremity Weakness in a Teenager Due to Thyrotoxic Periodic Paralysis. *J Emerg Med.* 2016 Dec 9;

Sawicki NN, **Brenner JM**, Kessler A, Tarsney PS, Mukherjee D. Ethical, Legal, and Medical Challenges When a Patient Refuses a Transfer From Rehabilitation to Acute Medical Services. *PM R.* 2016 Jul;8(7):690–7.

Eggleston W, Marraffa JM, Stork CM, Mercurio-Zappala M, Su MK, Wightman RS, et al. Notes from the Field: Cardiac Dysrhythmias After Loperamide Abuse - New York, 2008-2016. *MMWR Morb Mortal Wkly Rep.* 2016 Nov 18;65(45):1276–7.

Grock A, **Paolo W.** Free open access medical education: a critical appraisal of techniques for quality assessment and content discovery. *Clin Exp Emerg Med.* 2016 Sep;3(3):183–5.

Amini R, Stolz LA, Hernandez NC, **Gaskin K**, Baker N, Sanders AB, et al. Sonography and hypotension: a change to critical problem solving in undergraduate medical education. *Adv Med Educ Pract.* 2016;7:7–13.

Amini R, Stolz LA, Javedani PP, **Gaskin K**, Baker N, Ng V, et al. Point-of-care echocardiography in simulation-based education and assessment. *Adv Med Educ Pract.* 2016;7:325–8.

Biondich AS, Joslin JD. Coca: The History and Medical Significance of an Ancient Andean Tradition. *Emerg Med Int.* 2016;2016:4048764.

Johnson G. Trauma triage and trauma system performance. *Western Journal of Emergency Medicine.* 2016;17(3):331–2

Joslin JD, Goldberger D, Johnson L, Waltz DP. Use of the Vocera Communications Badge Improves Public Safety Response Times. *Emerg Med Int.* 2016;2016:7158268.

Mariani PJ. A Tale of 2 Lines (and 2 Guiding Ultrasounds). *Visual Journal of Emergency Medicine*. 2016;4:17–9.

Hoffman MD, **Joslin J**, Rogers IR. In Response to: Incidence of Exercise-Associated Hyponatremia and Its Association With Nonosmotic Stimuli of Arginine Vasopressin in the GNW100s Ultraendurance Marathon. *Clin J Sport Med*. 2016 Jan;26(1):e6.

Joslin J, Mularella J, Bail A, Wojcik S, Cooney DR. Mandatory Rest Stops Improve Athlete Safety during Event Medical Coverage for Ultramarathons. *Prehosp Disaster Med*. 2016 Jan 11;1–3.

Levine M, Hoffman RS, Lavergne V, **Stork CM**, Gaudins A, Chuang R, et al. Systematic review of the effect of intravenous lipid emulsion therapy for non-local anesthetics toxicity. *Clin Toxicol (Phila)*. 2016 Feb 6;1–28.

Damron TA, Nazarian A, Entezari V, Brown C, **Grant W**, Calderon N, et al. CT-based Structural Rigidity Analysis Is More Accurate Than Mirels Scoring for Fracture Prediction in Metastatic Femoral Lesions. *Clin Orthop Relat Res*. 2016 Mar;474(3):643–51.

Brenner J, Joslin J, Goulette A, Grant WD, Wojcik SM. Against Medical Advice: A Survey of ED Clinicians' Rationale for Use. *J Emerg Nurs*. 2016 Mar 28;

Kajla J, **Joslin J, Farber-Heath R.** Emphysematous Cystitis: An Uncommon Cause of Abdominal Pain. *Visual Journal of Emergency Medicine*. 2016 Apr;3:31–2.

Eggleston W, Clark KH, **Marraffa JM.** Loperamide Abuse Associated With Cardiac Dysrhythmia and Death. *Ann Emerg Med*. 2016 Apr 26;

Jones LA, **Sullivan RW.** Ventricular Tachycardia: A Rare Commotio Cordis Presentation. *Pediatr Emerg Care*. 2016 Jun 1;

Kulesa JT, **Wojcik SM, Goulette AE, Grant WD.** Socioeconomic status, prehospital delay, and acuity of illness on presentation. *Am J Emerg Med*. 2016 Aug;34(8):1712–4.

Hodgman M, Holland MG, English U, **Wojcik SM, Grant WD**, Leitner E. The Influence of Polyethylene Glycol Solution on the Dissolution Rate of Sustained Release Morphine. *J Med Toxicol*. 2016 Jun 13;

Nicholas E, **Thornton MD.** Lidocaine Toxicity During Attempted Epistaxis Cautery. *J Emerg Med*. 2016 Sep;51(3):303–4.

Eggleston W, Nacca N, Stork CM, Marraffa JM. Pediatric death after unintentional exposure to liquid nicotine for an electronic cigarette. *Clinical Toxicology*. 2016 Nov;54(9):890–891.

TEXT BOOKS AND CHAPTERS

Cooney's EMS Medicine. New York, NY: McGraw-Hill; 2016. **Derek R. Cooney**, Editor.

Wallus H, Knutsen CC. Obstetric and Gynecologic Emergencies. In: Cooney DR, editor. *Cooney's EMS Medicine*. New York, NY: McGraw-Hill Education; 2016.

Knutsen CC. EMS Personnel. In: Cooney DR, editor. *Cooney's EMS Medicine*. New York, NY: McGraw-Hill Education; 2016.

Joslin J, Mangano J. EMS Medicine: Poisoning and Envenomations. In: Cooney DR, editor. *Cooney's EMS Medicine*. New York, NY: McGraw-Hill Education; 2016.

Mularella JM, Berrett OM, **Joslin J**, Kohn M. Mass Gatherings. In: Cooney DR, editor. *Cooney's EMS Medicine*. New York, NY: McGraw-Hill Education; 2016.

Joslin J, Sholl JM, Debiegun GC. Wilderness Medicine. In: Cooney DR, editor. *Cooney's EMS Medicine*. New York, NY: McGraw-Hill Education; 2016.

Cameron EK, Cantor RM. Pediatric Patients. In: Cooney DR, editor. *Cooney's EMS Medicine*. New York, NY: McGraw-Hill Education; 2016.

Prince LA, Johnson GA. Aneurysms of the Aorta and Major Arteries. In: Tintinalli JE, Stapczynski JS, Ma OJ, Cline DM, Cydulka RK, Meckler GD, editors. *Tintinalli's Emergency Medicine: A Comprehensive Study Guide*, 8th Edition. New York, NY: The McGraw-Hill Companies; 2016.

Prince LA, Johnson GA. Aneurysmal Disease. In: Tintinalli JE, Stapczynski JS, Ma OJ, Yealy DM, Meckler GD, Cline DM, editors. *Tintinalli's Emergency Medicine: A Comprehensive Study Guide*, 8th Edition. New York, NY: The McGraw-Hill Companies; 2016.

Heyboer M. Carbon Monoxide. In, *Clinical Toxicology*. Wilmington, DE: Decision Support in Medicine, LLC, 2016. Web. September 2016

Heyboer M, Santiago W. Smoke Inhalation. In: *Clinical Toxicology*. Wilmington, DE: Decision Support in Medicine, LLC, 2016. Web. September 2016.

Cantor R, Marraffa JM, Stork CM. Editors: *Clinical Toxicology*. Wilmington, DE: Decision Support in Medicine, LLC, 2016. Web. September 2016.

Marshburn T, Cole R, **Blue R**. Space Medicine: The Next Frontier. In: Auerbach PS, Cushing TA, Harris NS, editors. *Auerbach's Wilderness Medicine*. Elsevier Health Sciences; 2016. Posters

PRESENTATIONS

IN OUR COMMUNITY

"HBO for the Treatment of Radiation Cystitis and Radiation Proctitis." Heyboer, M Presented at Upstate Wound Care & Hyperbaric Medicine Symposium, Syracuse, NY. February 2016.

"Hyperbaric Oxygen Therapy for Osteoradionecrosis of the Mandible." Cantor RM. Presented at Division of Denistry, Syracuse, NY. March 2016.

"Problem Wounds." Heyboer, M. Presented at Department of Surgery, Upstate Medical University, Syracuse, NY. September 2016.

"Upstate At Home." Knutsen CC. Presented at Upstate Foundation Office. December 2016.

AT OTHER INSTITUTIONS

"Advances in Pediatric Emergency Medicine, Mistakes You Don't Want to Make in Pediatric Patients." Cantor RM. Presented at Grand Rounds: Department of Emergency Medicine at Vanderbilt University, Nashville, Tennessee. June 2016.

NATIONAL/REGIONAL/STATE CONFERENCES AND EVENTS

"On-Line Medical Direction Effect on Prehospital Congestive Heart Failure Treatment with Furosemide." Dukes WS, Knutsen CC. Presented at NAESMP Scientific Assembly, San Diego, CA. January 2016.

"Emergency Medicine Potpourri." Joslin, J. Presented at New York State Academy of Family Physicians Winter Weekend, Lake Placid, NY. February 2016.

“Multiple Topics Presented.” Joslin, J. Presented at Wilderness Medical Society's National Student Elective, Virginia. February 2016.

“Arterial Gas Embolism After Bone Marrow Biopsy Successfully Treated with Hyperbaric Oxygen Therapy - A Case Study.” McCulloch N, Morgan M, Jennings S, Santiago W, Mariani P, Heyboer M. Presented at UHMS Annual Scientific Assembly, Las Vegas, NV. March 2016.

“Patient Outcomes and Factors Associated with Healing in Calciphylaxis Patients Undergoing Adjunctive Hyperbaric Oxygen Therapy.” McCulloch N, Heyboer M, Wojcik S. Presented at UHMS Annual Scientific Assembly, Las Vegas, NV. March 2016.

“A Retrospective Case Review of the Effect of Hyperbaric Oxygen Therapy on Central Retinal Artery Occlusion.” Kinariwala N, Wojcik S, Heyboer M. Presented at UHMS Annual Scientific Assembly, Las Vegas, NV. March 2016.

“Use of In-chamber TCOM to Determine Optimal Treatment Pressure.” Heyboer M, Byrne J, Wojcik S. Presented at UHMS Annual Scientific Assembly, Las Vegas, NV. March 2016.

“Nitrogen Narcosis Addiction in a Recovering Alcoholic- A Case Study.” McCulloch N, Morgan M, Jennings S, Santiago W, Mariani P, Heyboer M. Presented at UHMS Annual Scientific Assembly, Las Vegas, NV. March 2016.

“Updates in Wilderness Medicine and Emergency Care of the Endurance Athlete.” Joslin, J. Presented at Medical Field Conference - Taiwan Society of Emergency Medicine, Taipei, Taiwan. March 2016.

“When ALS is Not Enough.” Cantor RM. Presented at Northwest Seminars Emergency Medicine Update: Pediatrics, Key West, Florida. March 2016.

“PEM Rashes.” Cantor RM. Presented at Northwest Seminars Emergency Medicine Update: Pediatrics, Key West, Florida. March 2016.

“Most Common PEM Cases.” Cantor RM. Presented at Northwest Seminars Emergency Medicine Update: Pediatrics, Key West, Florida. March 2016.

“Mistakes You Don't Want to Make.” Cantor RM. Presented at Northwest Seminars Emergency Medicine Update: Pediatrics, Key West, Florida. March 2016.

“Literature Review.” Cantor RM. Presented at Northwest Seminars Emergency Medicine Update: Pediatrics, Key West, Florida. March 2016.

“Pediatric Emergency Medicine Literature Review.” Cantor RM. Presented at American College of Emergency Physicians Pediatric Emergency Medicine Assembly, Orlando, Florida. March 2016.

“The Crashing Infant.” Cantor RM. Presented at American College of Emergency Physicians Pediatric Emergency Medicine Assembly, Orlando, Florida. March 2016.

“Evidenced Based Respiratory Emergencies.” Cantor RM. Presented at American College of Emergency Physicians Pediatric Emergency Medicine Assembly, Orlando, Florida. March 2016.

“Must Know Toxins.” Cantor RM. Presented at American College of Emergency Physicians Pediatric Emergency Medicine Assembly, Orlando, Florida. March 2016.

“Pediatric Emergency Medicine Literature Review.” Cantor RM. Presented at Society of Emergency Medical Physician Assistants (SEMPA) Scientific Assembly, San Diego, California. March 2016.

“Esophageal Intubation As an Adjunct to Direct Laryngoscopy In Upper Gastrointestinal Bleeding: Description of a Novel Technique.” Adabonyan I, Pacheco F, Udu L, Paolo W, Mihaila D. Presented at 2016. New England Regional Meeting Society for Academic Emergency Medicine, Worcester, MA. March 2016.

“Mistakes You Don’t Want to Make in Pediatric Patients.” Cantor RM. Presented at Society of Emergency Medical Physician Assistants (SEMPA) Scientific Assembly, San Diego, California. March 2016.

“Knowing This Can Save Your Life.” Cantor RM. Presented at Essentials of Emergency Medicine Annual Meeting, Las Vegas, Nevada. May 2016.

“What Would Richie Cantor Do?” Cantor RM. Presented at Essentials of Emergency Medicine Annual Meeting, Las Vegas, Nevada. May 2016.

“Death of a Child in the ED.” Cantor RM. Presented at Essentials of Emergency Medicine Annual Meeting, Las Vegas, Nevada. May 2016.

“Pediatric Fails.” Cantor RM. Presented at Essentials of Emergency Medicine Annual Meeting, Las Vegas, Nevada. May 2016.

“Esophageal Intubation As an Adjunct to Direct Laryngoscopy In Upper Gastrointestinal Bleeding: Description of a Novel Technique.” Adabonyan I, Pacheco F, Udu L, Paolo W, Mihaila D. Presented at 2016. Society of Academic Emergency Medicine National Conference, New Orleans, LA. May 2016.

“Discussion regarding the heroin and opioid epidemic.” Sullivan R. Presented at White House Office of National Drug Control Policy forum, Albany, NY. June 2016.

“Nitrogen Narcosis Addiction in a Recovering Alcoholic - A Case Study.” McCulloch N, Jennings S, Morgan M, Santiago W, Mariani P, Heyboer M. Presented at UHMS Scientific Assembly 2016., Las Vegas, NV. June 2016.

“Arterial Gas Embolism After Bone Marrow Biopsy Successfully Treated with Hyperbaric Oxygen Therapy - A Case Study.” McCulloch N, Morgan M, Jennings S, Santiago W, Mariani P, Heyboer M. Presented at UHMS Annual Scientific Assembly, Las Vegas, NV. June 2016.

“Patient Outcomes and Factors Associated with Healing in Calciphylaxis Patients Undergoing Adjunctive Hyperbaric Oxygen Therapy.” McCulloch N, Heyboer M, Wojcik S. Presented at UHMS Annual Scientific Assembly, Las Vegas, NV. June 2016.

“A Retrospective Case Review of the Effect of Hyperbaric Oxygen Therapy on Central Retinal Artery Occlusion.” Kinariwala N, Wojcik S, Heyboer M. Presented at UHMS Annual Scientific Assembly, Las Vegas, NV. June 2016.

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“Use of In-chamber TCOM to Determine Optimal Treatment Pressure.” Heyboer M. Presented at UHMS Annual Scientific Assembly, Las Vegas, NV. June 2016.

“Use of In-chamber TCOM to Determine Optimal Treatment Pressure.” Heyboer M, Byrne J, Wojcik S. Presented at UHMS Annual Scientific Assembly, Las Vegas, NV. June 2016.

“Best Pediatric Emergency Medicine Practices.” Cantor RM. Presented at Annual Conference on Pediatrics, Napa, California. July 2016.

“Mistakes You Don’t Want to Make in Pediatric Patients.” Cantor RM. Presented at Annual Conference on Pediatrics, Napa, California. July 2016.

“Chief Complaints in Infants Less Than 28 Days of Age.” Cantor RM. Presented at Annual Conference on Pediatrics, Napa, California. July 2016.

“Hyperbaric Oxygen Therapy for Advanced Diabetic Foot Ulcers and Use of In-chamber TCOM to Determine Optimal Treatment Pressure.” Heyboer M. Presented at UHMS NE Chapter Meeting, Springfield, MA. September 2016.

“Pediatric Dermatology: The Raised, the Red, and the Itchy.” Thornton, M. Presented at Pediatric Emergency Medicine Assembly, Syracuse, NY. September 2016.

“Trauma Systems Activation Project (TSAP).” Kelly Czarnecki RN, BSN, Jerome Morrison RN, William Marx DO, Jolene Kittle MS, RN Jeremy Joslin MD, Tamer Ahmed MD, Richard King MD, Sara Fisher PNP, Douglas Sandbrook EMT-P, Megan Carey, Jackie Pilo. Presented at Trauma Center Association of America Annual Meeting, San Diego, California. October 2016.

“When the beans aren’t working: EMS considerations for the dialysis patient..” Knutsen CC. Presented at Code 3 Conference, St. Louis, MO. October 2016.

“EBM PEM: Are You Practicing It?” Cantor RM. Presented at American College of Emergency Physicians Annual Scientific Assembly, Las Vegas, Nevada. October 2016.

“Mistakes You Don’t Want to Make in Pediatric Patients.” Cantor RM. Presented at American College of Emergency Physicians Annual Scientific Assembly, Las Vegas, Nevada. October 2016.

“Toxicological Conundrums.” Cantor RM. Presented at Annual Conference on Pediatric Emergencies, Maui, Hawaii. October 2016.

“Chief Complaints in the First 30 Days of Life.” Cantor RM. Presented at Annual Conference on Pediatric Emergencies, Maui, Hawaii. October 2016.

“Pediatric Emergency Medicine Literature Review.” Cantor RM. Presented at Annual Conference on Pediatric Emergencies, Maui, Hawaii. October 2016.

“Hyperbaric Oxygen Therapy for the Treatment of Radiation Proctitis and Radiation Cystitis - Where Does the Literature Stand?.” Heyboer, M. Presented at ACCWS 6th Annual Symposium, Dayton, OH. October 2016.

“Hyperbaric Oxygen Therapy Effects on Blood Pressure and Serum Glucose.” Heyboer, M. Presented at ACCWS 6th Annual Symposium, Dayton, OH. October 2016.

“Subject enrollment in the ED utilizing an ED Enroller Program.” Pacelli, L. and Podolak, C. Presented at SOCRA Western New York State Chapter Fall Education Program, October, 2016.

“Chief Complaints in Infants Less Than 28 Days of Age.” Cantor RM. Presented at Eighth Annual Conference on Emergencies and Challenges in Pediatrics, New York City, NY. December 2016.

“Best Pediatric Emergency Medicine Practices.” Cantor RM. Presented at Eighth Annual Conference on Emergencies and Challenges in Pediatrics, New York City, NY. December 2016.

“Mistakes You Don’t Want to Make in Pediatric Patients.” Cantor RM. Presented at Eighth Annual Conference on Emergencies and Challenges in Pediatrics, New York City, NY. December 2016.

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