

CONFERENCE PROGRAM

Thursday, October 13, 2016

8:00-8:10 Welcome

David Tan, MD

8:10-8:30 Is There Only One Place You Are Supposed to Stick It?: Alternative Locations for Needle Decompression

Phillip Pratt, MSN, APRN, CEN

The common teaching has been for the second intercostal space, but recent research shows that needle decompression can be performed in multiple places on the chest wall, some of which have improved outcomes. Should you change your approach?

8:30-8:50 You've Been Served—Now What?: What Happens When You Get Sued

Jennifer Fletcher, RN, MBA & Ellen Harmon, JD, MBA, RN

Uh oh. What do you do now? Where do you turn for support? How do you find or choose a lawyer? How do you review the case appropriately? The initial steps of being sued will be outlined and discussed.

8:50-9:10 Turtlenecks Were Sexy In the 70s—C-Collars, Helpful or Harmful?

Ritu Sahni, MD

Backboards underwent extreme scrutiny over the last few years and because of this, their use has decreased. Now many researchers have turned their attention to cervical collars and whether there is a need for them while caring for a trauma patient.

9:10-9:30 What's Up Doc?: Your Doctor Isn't a Complete Idiot When It Comes to Field Resuscitations

Jeff Siegler, MD

More EMS physicians are now responding to calls in the field, backed with information and knowledge of new skills that you only used to see in the hospital. Amputations, thoracotomies, and ultrasound are among those procedures that you may witness.

9:30-9:50 Code Sepsis: Do You Have to Do More Than Just Give a Diesel Bolus?

Matt Levy, MD

You have recognized a septic patient and have notified the receiving hospital. Does treatment of sepsis begin in the prehospital environment? This session will look at the use of fluid bolus, antibiotics, and pressors.

9:50-10:10 Break

10:10-10:30 Smoking Is Bad for Your Health: When to Use a Cyano-Kit, When to Go to a Burn Center, What Good Is a Hyperbaric Chamber?

Evan Schwarz, MD

This presentation will help you navigate through the decision making and treatment regimens available to care for your patient suffering from smoke inhalation

10:30-10:50 Don't Get Amped Up Over Your Hypoglycemics: Alternative Treatment Strategies

Kim McKenna, RN, ARNP

Sometimes more is not better. Do we always need to administer a full amp of D50 or is a drip of D10 better for the patient? We will be reviewing the literature behind these strategies to determine the *sweet spot* of your treatment.

10:50-11:10 The Problem Child: OB Emergencies of Abnormal Childbirth Presentations

Rebecca Bavolek, MD, FACEP

When the presenting part is the head, and all goes smoothly, childbirth is easy (for the provider). However, when the baby gets stuck or a different body part presents, this is how you should stay calm and assist in childbirth.

11:10-11:30 Double Sequential Defibrillation—Fantasy or Reality?

Brent Myers, MD

There have been many case reports discussing the success of double-sequential defibrillation, but what are the logistics behind implementing a protocol? Is there an issue with shorting out defibrillators? Is it

considered an off-label use by the FDA?

11:30-11:50 Breaking Bad: The New Season: New Drugs of Abuse

Dave Liss, MD

New drugs are out there and our patients will be taking them. What should we expect and how do we treat them?

11:50-13:00 Lunch

13:00-13:20 Emerging Infectious Diseases (Zika, Chikungunya)

Steve Liang, MD

Every year, a new outbreak seems to hit the news and scare the public. This session will cut through the hype and teach you what you really need to know about recent emerging infectious diseases.

13:20-13:40 ALTErnative Dispositions—Acute Life Threatening Events

David Tan, MD

The American Academy of Pediatrics has just released an updated position statement on ALTEs. This statement will be reviewed and its application to EMS will be discussed.

13:40-14:00 Really Little, Really Sick—The Critically Ill Neonate

Terry Cuellar, MN, RN, CCRN

The first 30 days of life can be a trying time for the patient and the provider. During this session, common neonatal infections and illnesses will be briefly reviewed.

14:00-14:20 Pediatric Psych Patients—Are Kids Really Little Adults?

Brandon Bleess, MD

Ketamine seems to be the latest rage in the acute behavioral management of the adult psychiatric patient. Is this something that can be applied to the pediatric patient or are there other more effective treatments?

14:20-14:40 Airway Emergencies in the Special Health Care Needs Child

Patricia Casey, EMT-P

Providers are frequently scared when they are presented with a patient that has more medical equipment at home than what is carried on an ambulance. During this session, frequently encountered medical equipment will be reviewed and troubleshooting in the event of equipment failure will be examined.

14:40-15:00 Break

15:00-15:20 You Might Not Be the Safest EMS System If... 10 Areas of Safety in EMS

Lee Varner, BS, EMT-P

The Colorado Springs model dispatches a single unit made up of police, paramedic, and social worker, instead of multiple vehicles and multiple resources. This has been shown to decrease utilization and more efficiently cares for the patient.

15:20-15:40 Good Thing We Can Reboot: Safety in Simulation

Eric Bean, RN

Simulation is a good way to practice and make mistakes so it does not happen in real life. The pros and cons of implementing a simulation program in the prehospital environment will be provided.

15:40-16:00 Performance Measures & A Successful Service: The EMS Compass Project

Alex Garza, MD

Come to this session to learn where protocol development is heading on the national level and how it may influence your care and protocols locally.

16:00-16:20 Changing the Goals of Care: EMS & Hospice

Chris Jacobus, MD

DNR does not mean do not care and does not mean do nothing. How do you provide the best quality of care to patients at the end stage of life?

16:20-16:40 What's That Timmy? Lassie Is Stuck In a Well?: Care of Animal on the Fire Scene

Kelly Counts, APRN, ACNP-BC, FNP-C & Kim Lamprecht, EMT-P

A ruff overview on canine first aid will be discussed.

16:40-17:00 Wrap Up of First Day

Friday, October 14, 2016

8:00-8:10 Welcome Back

David Tan, MD

8:10-8:30 Rare Medical Conditions in Pediatrics

Michael Lohmeier, MD

What do you do when a parent hands you a vial of their child's rescue medications? Do you know what it does? Are you comfortable administering it? Do you have a protocol that supports you? **8:30-**

8:50 Just Culture

Jake Keeperman, MD

A discussion of the skills of Just Culture and how it applies to risk and error mitigation, leading to a safer environment for patients and providers alike.

8:50-9:10 How High Can You Go?: The Non-Medical Narcan Program

David Tan, MD

Narcan is everywhere now. How do you, as an EMS provider, interact with a person who has been administered narcan? Is this patient and do they need transport? Or do they have capacity to refuse? Is this safe?

9:10-9:30 Does Roc Succ?: Succinylcholine vs Rocuronium

Phil Moy, MD

A pro-con argument for each of the paralytics and which is the best to use in the prehospital environment.

9:30-9:50 Lay Me Down Before I Wake: Does Supine Positioning Lead to Loss of Airway?

Mark Levine, MD

Without an airway, nothing else matters. But does laying the patient down mean we never get past A in the ABCs. Is there a better position to transport your trauma patient?

9:50-10:10 Break

10:10-10:30 When the Beans Aren't Working: EMS Considerations for the Dialysis Patient

Chris Knutsen, MD

Are you familiar with the different types of dialysis—not the treatments, but the complications from them and how to treat those complications? How does effect assessment of the dialysis patient?

10:30-10:50 Getting to the Heart of the Matter—Cardiovascular Research Updates

Ritu Sahni, MD

A review of some of the latest research in cardiovascular emergencies

10:50-11:10 NASCAR CPR: The Pit Crew Approach

Leo Hsu, MD

The key to winning the race is a highly effective pit crew. Every NASCAR driver knows this. Are we able to take some of this knowledge and apply it to CPR and improve outcomes?

11:10-11:30 Mnemonics! ACD-ITD-CPR!

Brent Myers, MD

There is new research and new devices out there that have some promise in improving outcomes for patients in cardiac arrest. You may hear about them and see some of them in your region before long.

11:30-11:50 Back by Popular Demand! Scary 12-Leads That Aren't MIs

Ray Fowler, MD

During this session, STEMI mimics will be discussed and clues will be given to you to help distinguish between these mimics and the real deal.

11:50-13:00 Lunch

13:00-13:20 Stroke, Stroke, Stroke—Where Do We Stop on the River?: Primary vs Comprehensive Stroke Centers

Peter Panagos, MD

Do all patients need to be transported to a comprehensive stroke center? What are the differences and capabilities of each and what patients are most appropriate for each center?

13:20-13:40 More Mnemonics! RACE, LAMS LAPSS, CPSS—WTH! OMG!: LVO Stroke Screening

Laura Heitsch, MD

Is there a way to distinguish when a patient needs neuro intervention? The answer is yes. Come to this session to learn the tools used that help in making those decisions.

13:40-14:00 Resuscitation Sequence Intubation: Airway Management for the Patient in Shock

Maia Dorsett, MD

ABCs are what we have always been taught, but for the patient in shock maybe we need to reconsider the sequence.

14:00-14:20 An Intro to ECMO & Why Do We Care?

Chris Palmer, MD

ECMO is bypassing the heart and lungs of the patient and taking over these functions. Are there certain patient types that benefit from being placed on ECMO earlier in their resuscitation?

14:20-14:40 Stay & Play vs Load & Go: Pediatric Cardiac Arrest

Kate Remick, MD

It has been shown that you get better outcomes when treating adult arrest where they are found. Does the literature support this same approach to pediatric arrest?

14:40-15:00 Break

15:00-15:20 Sex Trafficking—What You Should Be Looking Out for & How to Help

Nathan Woltman, MD

Are you familiar with the Code Blue campaign? It is a means of helping you to identify the victims of sex trafficking and how to help them.

15:20-16:00 Building Your Diamond Armor: Stress Prevention & Mitigation Tactics

Rebecca Dougherty, MSW & Angela Hanks, MSW

The stressors of prehospital providers are unique and often overlooked. A panel discussion about your own mental wellness from the aspects of two social workers who are intimately familiar with prehospital stressors—at home and at work.

16:00-16:20 EMS 3.0 The Next Generation—Where We Are Going

Scott Gilmore, MD

EMS can contribute to our nation's healthcare transformation by filling gaps in the care continuum

with 24/7 medical resources that improve the patient care experience, improve population health, and reduce healthcare costs—this is “EMS 3.0.”

16:20-17:00 Conference Wrap Up

FACULTY

Rebecca Bavolek, MD, FACEP graduated from Washington University in St. Louis, and continued her training in Emergency Medicine at Washington University where she served as chief resident during her final year of residency. Following completion of her residency, she has focused on resident education and has been the Assistant Program Director for the Washington University Emergency Medicine Residency Program since 2013. She has lectured on obstetrical and gynecologic emergencies at local, regional, national, and international conferences. As of October 1st, she joined the Department of Emergency Medicine at UCLA and will be serving as the Program Director for the Ronald Regan UCLA Medical Center/Olive View UCLA Medical Center Emergency Medicine Residency Program.

Eric M. Bean, RN, BSN has been a flight nurse with Air Evac Lifeteam since 2012. During that time, he has spoken at multiple regional conferences and a participant on multiple educational and clinical improvement committees. He has held the position of supervisor and clinical lead for Air Evac during his employment and prior to joining the flight program, he he was an ICU nurse in Des Moines IA and Denver, CO.

Brandon Bleess, MD, EMT-T is currently an EMS fellow at Washington University in St. Louis. He graduated medical school in 2013 from the University of Illinois College of Medicine at Peoria. He graduated his emergency medicine residency in 2016 from the University of Illinois College of Medicine at Peoria/OSF Saint Francis Medical Center in Peoria, IL. He served as Chief Resident for the 2015-2016 academic year. He has been active in pre-hospital medicine since 2003 starting during his undergraduate and medical school studies as a Firefighter/EMT with Edge-Scott Fire Protection District in Urbana, IL. He was also an operational supervisor for Illini Emergency Medical Services, an all- volunteer student run EMS agency at the University of Illinois at Urbana-Champaign. During residency he worked as a physician for the Illinois Region 2 Regional Medical Response Team as well as a flight physician with OSF Life Flight.

Patricia Casey, EMT-P is a member of the EMS Outreach Team at SSM Health Cardinal Glennon Children's Hospital. She is a long time paramedic who has recently dedicated her career to improving emergency care for pediatric patients with complex medical needs. She has held several educational and leadership roles in the EMS field but her biggest accomplishment has been her part in the design and ongoing growth of the widely used STARS program. She was a Paramedic supervisor at Christian EMS and currently works as an EMS for Cardinal Glennon and is a Lt. Paramedic for Rock Township.

Kelly Counts, APRN, ACNP-BC, FNP-C has been an advance practice provider in the Emergency Department for 10 years at Barnes Jewish Emergency Room. She is currently Adjunct Faculty at St. Louis University for the Acute Care Nurse Practitioner program, involved in mentoring many APRN as they progress through their education. She has been a national lecturer at EMS and Acute Care conferences and has a passion for the pre hospital venue. She is sought after as a Legal Nurse Expert for defensive case work in her profession. She was a Flight Nurse and Educator for a flight program for 12 year and has over 20 years of Emergency Medicine and Critical Care nursing experience. She has served on State EMS committees and has also been Regional Faculty for the AHA.

Terrence Cuellar, MN, RN, CCRN has been a registered nurse for over 28 years. He earned his Bachelor in Nursing degree at the University of MO—Columbia, and earned his Master of Nursing degree from the University of FL. His entire career has been in pediatric nursing, with experiences including pediatric general care units, pediatric critical care, neonatal and pediatric transport, nursing education, and neonatal critical care. He currently works as a Pediatric Outreach Educator for SSM Health Cardinal Glennon Children's Hospital, and travels to community hospitals and fire and ambulance agencies teaching nurses and EMS personnel about caring for sick children.

Maia Dorsett, MD, PhD is currently an EMS Fellow at Washington University in St. Louis. She completed medical school and a PhD in Molecular Genetics & Genomics at Washington University in St. Louis, where she subsequently also completed residency in Emergency Medicine. She served as chief resident from 2015-2016. During her time in residency, she developed a passion for quality improvement and medical education, deciding to pursue these interests within the context of an EMS Fellowship.

Rebecca A. Dougherty, MSW, LCSW earned her Masters degree from Washington University's Brown School of Social Work. She has provided supportive counseling, crisis intervention and community resources to staff, residents, & patients for the past 15 years. In addition, she is a field instructor for MSW & MPH interns, provides post masters degree supervision for licensure candidates and an adjunct faculty member for the Saint Louis University School of Medicine and Washington University School of Social Work & Public Health. She is the mental health specialist for the Missouri Disaster Medical Assistance Team (MO-1 DMAT), MoDRS, Inc. and the Regional Critical Incident Stress Management Team; and uses her crisis intervention, emergency preparedness and debriefing skills in the academic and clinical environments.

Jennifer Fletcher, RN, MBA has served multiple roles at Air Evac since 2000 including flight nurse, clinical educator, and clinical development specialist. Currently, she is the Director of Patient Care Services and Staff Development at Air Evac since 2009. She is responsible for all patient safety and clinical quality activities.

Ray Fowler, MD, FACEP, DABEMS has played an important role in the history of EMS medical direction and provider education. He served on the initial steering committee to form the National Association of EMS Physicians, the subspecialty organization for EMS Medicine, later becoming its fourth President, and he is past-President of the Georgia College of Emergency Physicians. He was a leader in the expansion and proliferation of the International Trauma Life Support International program, having served as National Program Director and ITLS Medical Director for the State of Georgia. A native of Georgia, he is now in his thirty-eighth year of emergency medicine practice and EMS medical direction, having been Medical Director of Parkway Medical Center Emergency Department in Lithia Springs, Georgia for twenty years and on the state EMS council of Georgia for over thirty years.

He is Professor and Chief of the Division of Emergency Medical Services at the University of Texas Southwestern Medical Center in Dallas. He is Attending Emergency Medicine Faculty at Parkland Memorial Hospital Emergency Department.

Brian R. Froelke, MD, EMT-T, FACEP is an Assistant Professor of Emergency Medicine at Washington University School of Medicine in St. Louis. He attended the University of Cincinnati Medical School and continued his training at Barnes Jewish Hospital where he served as Chief Resident. He assisted with the construction of an EMS Fellowship Program in which he was the inaugural fellow in Emergency Medical Services. He is the EMS medical director for Christian Hospital EMS in Saint Louis as well as a number of local emergency response agencies. He is the Chief Medical Officer for the Missouri Disaster Response System and the Chair of Missouri's Regional Medical Director Committee. He is President of the Interstate Disaster Medical Collaborative and the EMS Medical Director for the State of Missouri.

Alex Garza, MD is an Associate Professor in Emergency Medicine and Epidemiology at the Saint Louis University College for Public Health and School of Medicine. His teaching and research focus on Public Health, Emergency Medicine and Security. In addition, he is the Medical Director and Homeland Security advisor for FirstWatch Inc. Prior to coming to SLU, Dr. Garza was

appointed by President Obama and confirmed by the US Senate as the Assistant Secretary for Health Affairs and Chief Medical Officer at the U.S. Department of Homeland Security. Dr. Garza is also a Colonel in the US Army Reserves and has performed combat tours in Iraq as a Battalion Surgeon and Public Health Team Chief for the 418th Civil Affairs Battalion attached to the Fourth Infantry Division (Mechanized), as well as counter terrorism training missions in Africa with the First (1st) Special Forces Group (Airborne). Dr. Garza's career has spanned all levels of emergency response including as an EMT, paramedic, flight medic, emergency physician, army officer and an EMS administrator.

Scott Gilmore, MD, EMT-P, EMT-T, FACEP is an emergency physician at SSM St. Mary's Hospital in St. Louis. He started his career in healthcare as an Emergency Medical Technician-Ambulance and continues to maintain his license as a paramedic. He graduated from Southern Illinois University where he obtained his Doctor of Medicine. He completed an Emergency Medicine residency and EMS fellowship at Barnes-Jewish Hospital and is board certified in Emergency Medicine and Emergency Medical Services. He is active in the prehospital setting serving as the Medical Director for St. Louis Fire Department, a Board Member for the National Registry of Emergency Medical Technicians and the chair of the Education Committee of the National Association of EMS Physicians.

Angela Hanks, MSW LCSW is an Emergency Department Social Worker at Barnes Jewish Hospital. Angela earned her Masters of Social Work from the University of Missouri- Columbia and is currently working towards a Masters of Health Administration at Webster University. Angela has a particular interested Compassion Fatigue and Caregiver Burnout.

Ellen Harmon, RN, MBA, JD is a licensed registered nurse and doctor of law. She has served as the Associate General Counsel at Air Medical Group Holdings since November 2012. She manages all forms of corporate litigation as well as provides legal and strategic business advice to executives and top management at Air Medical Group Holdings.

Leo Hsu, MD, MDiv serves as the EMS Medical Director for St. Charles County Ambulance District (SCCAD). He is a graduate of the Emergency Medicine residency program of Washington University/ Barnes Jewish Hospital. Dr. Hsu additionally serves as the Emergency Department Medical Director and Stroke Director for Progress West Hospital (BJC). He is the recipient of the Frank Mitchell Physician of the Year award in 2015.

Christian Jacobus, MD, FACEP is the Medical Director for Bridge Hospice in Findlay, Ohio. He started his medical career as an EMT-B in Boston. He then completed medical school at the University of Miami and trained in Emergency Medicine at the University of Cincinnati. While in residency he served as

a flight physician for the hospital's helicopter rescue service, University AirCare. After teaching and practicing Emergency Medicine for 6 years, during which he was awarded EMRA's Assistant Program Director of the Year, he completed a fellowship in Hospice and Palliative Medicine at Vanderbilt University. He practiced both EM and HPM for a year before accepting his current position as a full-time Hospice Medical Director.

Jacob B. Keeperman, MD, EMT-B, EMT-T is an Assistant Professor of Anesthesiology and Emergency Medicine at Washington University School of Medicine in St Louis. He started his career as an Emergency Medical Technician—Basic. He graduated from Loyola University Stritch School of Medicine in Chicago and completed his Emergency Medicine residency at Barnes-Jewish Hospital. He is board certified in Emergency Medicine. After residency he completed fellowships in Multi-disciplinary Critical Care Medicine and Emergency Medical Services. He is the Medical Director for Air Evac EMS. He is frequently an invited lecturer locally, nationally, and internationally on Emergency Medicine, Critical Care Medicine, and Emergency Medical Services. He has special interests in out-of-hospital management

of critically ill patients, emergency management of LVADs, out-of-hospital vasopressor use, and utilization of air medical resources.

Christian Knutsen, MD is an Emergency Medicine and EMS Physician with SUNY Upstate Medical University in Syracuse, New York. Dr. Knutsen completed both his Emergency Medicine Residency and EMS Fellowship at the University of Pittsburgh before moving to Syracuse in 2009. Dr. Knutsen is the medical director for multiple local agencies in Central New York and works with Syracuse Police Department's SWAT team. He is the Associate Program Director for SUNY Upstate's EMS Fellowship. Dr. Knutsen also hosts EMS Medicine Live, a monthly webinar for EMS Medical Directors sharing case presentations, topic reviews, and hot topic reviews.

Kim Lamprecht, EMT-P

Mark D. Levine, MD, EMT-T, FACEP is an Associate Professor of Emergency Medicine and Emergency Medicine Course Director at Washington University School of Medicine in St. Louis. He started his career as an Emergency Medical Technician—Basic. He graduated from New York University School of Medicine and completed his Emergency Medicine residency at the MetroHealth Medical Center/Cleveland Clinic program in Cleveland, Ohio, where he served as a Flight Physician for Metro Life Flight. He is board certified in Emergency Medicine and Emergency Medical Services. He was the former Medical Director of the St. Louis Fire Department, and now serves as the Assistant Medical Director. He has lectured locally and internationally on Emergency Medicine and Pre-hospital Medicine and is a reviewer for Emergency Medical Services Magazine and a member of the Commission on Accreditation of Ambulance Services (CAAS).

Matthew J. Levy, DO, MSc, FACEP, NRP is an Associate Professor of Emergency Medicine of the Johns Hopkins University School of Medicine, the Medical Director of Howard County Fire Rescue, and Associate Medical Director of Johns Hopkins Lifeline Critical Care Transport Team. He is a veteran disaster worker who has responded to incidents that range from local disasters to the 9/11 Attacks on America and Hurricane Katrina. Dr. Levy completed his medical degree at the Philadelphia College of Osteopathic Medicine and his undergraduate and graduate degrees in Emergency Health Services at the University of Maryland, Baltimore County. Dr. Levy completed a residency in Emergency Medicine at Johns Hopkins Hospital where he also served as Chief Resident. Dr. Levy is a Senior Medical Officer with the Johns Hopkins Center for Law Enforcement Medicine where he provides medical direction and field support for federal law enforcement agency tactical medical programs. Dr. Levy is a Tactical Physician and the Medical Director for Howard County Police. Dr. Levy is also the Medical Director of the Department of Emergency Health Services at the University of Maryland, Baltimore County.

Stephen Liang, MD is an Assistant Professor of Medicine in the Divisions of Emergency Medicine and Infectious Diseases at the Washington University of School of Medicine / Barnes-Jewish Hospital. He is also a Medical Team Manager with Missouri Task Force 1.

David Liss, MD is currently a Medical Toxicology fellow at Washington University School of Medicine. He graduated from the University of Illinois at Chicago College of Medicine and completed his Emergency Medicine residency at Washington University in 2015 where he served as a Chief Resident. Prior to medical school he was an EMT and has had an interest in prehospital medicine as it relates to toxicology.

Michael T. Lohmeier, MD, EMT-T joined the faculty of Emergency Medicine at the University of Wisconsin School of Medicine & Public Health in August of 2011. After graduating from the University of Illinois College of Medicine at Peoria in 2006. He completed his Emergency Medicine Residency training at Washington University in Saint Louis, serving as Chief Resident

during his fourth year. He subsequently completed a Fellowship in Emergency Medical Services at Washington University, with a concentration in Tactical Medicine. His areas of interest also include EMS and prehospital care, mass gathering, and fireground rehab.

Kim McKenna, RN, EMT-P is the Director of Education for the St. Charles County Ambulance District and an Adjunct Instructor for Lindenwood University in St. Charles, Missouri. She formerly served as Chief Medical Officer for the Florissant Valley Fire Protection District. Kim is a paramedic, registered nurse, educator, EMS author and editor. She has been involved in emergency care and EMS education for more than 25 years. Kim served as the Emergency Medical Responder Project Level leader on the National EMS Education Standards Task force. She is presently a Board of Director for the National Association of EMS Educators and Chairs the Research Committee.

H. Philip Moy, MD is an Instructor of Emergency Medicine and core faculty for the EMS fellowship at Washington University School of Medicine in St. Louis. He graduated from Loyola Stritch School of Medicine in Chicago in 2008 and he completed his residency in Emergency Medicine at Washington University where he served as Chief Resident in 2012-13. He completed his fellowship in Emergency Medical Services at the University of North Carolina and returned to St. Louis where he is currently in charge of research for the EMS fellowship at Washington University and is an Assistant Medical Director for the Saint Louis Fire Department.

J. Brent Myers, MD, MPH, FACEP began his emergency medicine career as a 16-year-old emergency department technician at Wilkes Regional Medical Center in North Wilkesboro, NC. He completed his EMT education during his freshman year at UNC-Chapel Hill. For the next 3 years, he served as an EMT and crew chief for the Orange County Rescue Squad in Hillsborough, NC. After completing medical school at the Wake Forest University School of Medicine and Emergency medicine residency at Carolinas Medical Center, he became the first EMS Fellow at the UNC School of Medicine in Chapel Hill. He assumed the role of Medical Director of the Wake County EMS System in 2002 and became Director of the Department of EMS in 2008. He currently is President-Elect of the National Association of EMS Physicians (NAEMSP). He is board certified in Emergency Medicine and Emergency Medical Services and is the Associate Chief Medical Officer of AMR and Chief Medical Officer of Evolution Health, both subsidiaries of Envision Healthcare.

Chris Palmer, MD, EMT-B is an Assistant professor of Emergency Medicine and Critical Care/Anesthesia at Washington University. He attended college at Virginia Tech and was a member of the Virginia Tech Rescue Squad and completed EMT-Basic training. He received his medical degree from SUNY Upstate Medical University in Syracuse, NY. He completed his emergency medicine residency at University Hospital in Cincinnati, Ohio. During his residency was also the Assistant Medical Director for Reading (OH) Fire Department. He completed a critical care fellowship at Barnes Jewish Hospital in St. Louis, MO.

Peter D. Panagos, MD, FACEP, FAHA is an Associate Professor of Emergency Medicine at Washington University. He is a graduate of Emory University School of Medicine. He completed his residency in Emergency Medicine at the University of Cincinnati and served as a chief resident. After residency he completed a fellowship in Neurological Emergencies and Stroke at the University of Cincinnati. He is board certified in Emergency Medicine and has an interest in the identification, management and treatment of acute stroke patients.

Phillip Pratt, MSN, APRN, CEN is a Clinical Staff Development Specialist with Air Evac Lifeteam and a frequent speaker at industry events. Through his 15 year nursing career he has worked in the critical care setting in ICU's, ED's, and the pre-hospital setting. In 2014 he graduated with honors in primary care as a Family Nurse Practitioner.

Kate Remick, MD is the EMS Director for the Pediatric Emergency Medicine Fellowship at Dell Medical School in Austin, TX, Interim Deputy Medical Director for Austin/Travis County EMS System, Trauma Liaison for the Emergency Department at Dell Children's Medical Center, and Executive Leader for the newly funded EMS for Children Innovation and Improvement Center whose mission is to transform emergency care for children across the healthcare continuum using the elements of improvement science. In addition, she is the Medical Director for the National Association of EMTs Emergency Pediatric Care course, Chair of the Education Task Force for the National Association of EMS Physicians' Pediatric Committee, and a member of the State of Texas Governor's EMS and Trauma Advisory Council Medical Director's Committee. Active at the local, state and national levels, Dr. Remick's academic interests have focused on system-based readiness and quality improvement efforts across the pediatric emergency care continuum.

Ritu Sahni, MD, MPH is EMS Medical Director for Washington County, Oregon and the City of Lake Oswego, Oregon. He also serves as Associate EMS Medical Director for Clackamas County. He is Immediate Past-President of the National Association of EMS Physicians and serves on the Board of Directors of the Committee on Accreditation of Education Programs for the Emergency Medical Services Professions. He has served on the Board of Directors of the National Registry of EMT and was a member of the first National EMS Advisory Council. Previously, he served as Oregon's first State EMS/ Trauma Medical Director as well as Medical Director for LifeFlight Network in Oregon and EastCare Critical Care Transport in Greenville, NC. Dr. Sahni is a graduate of Tulane Medical School and did his Emergency Medicine Residency at the University of Pittsburgh. He also did an EMS Fellowship at Pittsburgh, during which he also earned a Master's Degree in Public Health focusing on public and community health services.

Evan S. Schwarz, MD, FACEP is the Fellowship Director and Section Chief for the Medical Toxicology Fellowship at Washington University in St. Louis. He graduated from the University of Texas Medical Branch in Galveston, Texas before matriculating to Washington University for his residency in Emergency Medicine. After finishing his residency in Emergency Medicine, he completed a fellowship in Medical Toxicology at the University of Texas Southwestern School of Medicine. He is active in the American College of Medical Toxicology (ACMT) and serves as the chair of the Recent Graduate Section. In addition to authoring several manuscripts, textbook chapters, and abstracts, he was recently named the ACMT liaison to the Agency for Toxic Substance and Disease Registry, region 7.

Jeffrey E. Siegler, MD, EMT-P is an attending physician in Emergency Medicine at Barnes-Jewish Hospital and faculty at Washington University School of Medicine. He completed his EMS Fellowship at Washington University. Prior to medical school, he was a paramedic for AMR-Riverside in Riverside County, CA and a Firefighter/Paramedic for CalFire/Riverside County Fire Department. During medical school, he worked as a Paramedic for Plymouth Community Ambulance Association and a Firefighter/Paramedic for Bryn Athyn Fire Company in Montgomery County, PA. He recently completed his Emergency Medicine residency at SUNY Upstate Medical University in Syracuse, NY. While in residency, he also worked as a Paramedic for WAVES Ambulance and as a Flight Paramedic for Air 1/Onondaga County Sheriff's Department.

Bridgette B. Svancarek, EMT-T, MD is an Instructor of Emergency Medicine and core faculty for the EMS Fellowship at Washington University. She graduated from University of Missouri—Columbia School of Medicine and completed her Emergency Medicine Residency at Resurrection Medical Center in Chicago. Following residency, she completed the EMS Fellowship at Washington University. She is actively involved in EMS education at the local, state, and national levels, serving as the Medical Director for the Education Subcommittee of the Missouri State Advisory Council on EMS and as a Board Member of the Committee on Accreditation of EMS Programs.

David K. Tan, MD, EMT-T, FAAEM is the EMS Section Chief in the Division of Emergency Medicine at Washington University School of Medicine. He also serves as Medical Director of Washington University EMS. He is board-certified in Emergency Medicine and EMS Medicine and personally serves as medical director for the St. Charles County Police Department, Abbott EMS, Clayton Fire

Department, St. Louis US&R System, and several first responder and AED programs. He is Vice-chair of the Missouri State Advisory Council on EMS and serves on the National Association of EMS Physicians Board of Directors.

Lee Varner, BS, EMT-P is the EMS Project Manager and brings a diverse background in Emergency Medical Services to the Center for Patient Safety. Over the span of his 30 year career in EMS, Lee has worked in a variety of capacities in the industry. He has been a flight paramedic in Omaha Nebraska, a licensed paramedic at St. Charles County Ambulance District and the EMS Coordinator for Mercy Hospital Saint Louis. Lee holds a Bachelor's degree in EMS from Creighton University in Omaha, Nebraska. He is currently pursuing his Master's Degree in EMS. He is also a certified Just Culture Trainer and will be supporting the coordination and promotion of Just Culture training. Lee is a member of NAEMT and an active member of the Missouri Emergency Medical Association. Lee is passionate about EMS and safety.

Nathan M. Woltman, MD, EMT-T is an emergency physician and faculty at the Johns Hopkins School of Medicine. He is a faculty member of the Johns Hopkins Center for Law Enforcement Medicine where he directs the law enforcement and tactical medicine fellowship program. He also serves as Associate Medical Director for the Johns Hopkins Lifeline Critical Care Transport Team. He began his career in healthcare as a fire-medical and subsequently worked in fire, EMS, wilderness SAR, military medicine, and law enforcement. He graduated from the Mayo Medical School at the Mayo Clinic in Rochester Minnesota with a Doctor of Medicine, completed Emergency Medicine residency and a year of specialized training in law enforcement medicine at Johns Hopkins, and completed his EMS fellowship at Washington University.