

# EMERGENCY MEDICINE REVIEW

Virtual CME Conference  
June 1-29, 2023 | [osu.cloud-cme.com](https://osu.cloud-cme.com)

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1. Under course content, complete the Required Agreement.
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### To earn your Proper Prescribing credit:

Join the Proper Prescribing Live Webinar,  
“Medication Assisted Treatment for Opioid Addiction”  
Presented by Kelly Dunn, M.D. — June 16th at 12:00pm CT

NOTE: Oklahoma physicians must self-report their CME hours and Proper Prescribing attendance online to the Oklahoma State Board of Osteopathic Examiners: <https://www.ok.gov/osboe/>

## RELEVANT DISCLOSURES

No content controllers have any relevant relationships.

## QUESTIONS TO SPEAKERS

You may ask questions to any of our speakers regarding their presentations by emailing us to [osu.cme@okstate.edu](mailto:osu.cme@okstate.edu). Any questions will be answered within one week.

## PLANNING COMMITTEE

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**CONTINUING MEDICAL EDUCATION**

OSU Center for Health Sciences

# EMERGENCY MEDICINE REVIEW

June 1-29, 2023 | [osu.cloud-cme.com](https://osu.cloud-cme.com)

## Conference Agenda

<b>2023 COLA Review</b> Bobby Abernathy, D.O.	<b>2023 COLA Review</b> Steven Gearhart, D.O.	<b>Emergency Medicine Core Concepts: Medical-Legal Review</b> Kurtis Mayz, M.D.
<b>Orthopaedics for the Emergency Medicine Physician: "Breaking" It All Down</b> Keivan Abtahi, D.O.	<b>Increased Anion Gap Metabolic Acidosis- A Case Based Approach</b> Will Goodrich, D.O.	<b>Envenomation's of Oklahoma</b> Jason Moore, D.O.
<b>Suicide Risk Assessment</b> Jason Beaman, D.O.	<b>ENT Airway Update</b> Tom Hamilton, D.O.	<b>Antibiotics Update for EM Providers: This is the Way</b> Kelly Murray, Pharm.D.
<b>2023 COLA/CORE Review</b> Tyson Bryant, D.O.	<b>Compassionate Care Improving Outcomes and Your Career</b> Anton Helman, M.D.	<b>Trauma Resuscitation Updates</b> Salim Rezaie, M.D.
<b>Wide Complex Tachycardia</b> Josh Burton, D.O.	<b>Cardiovascular Emergencies</b> Arash Karnama, D.O.	<b>Non-Invasive Positive Pressure Ventilation</b> Brie Roepke, D.O.
<b>Proper Prescribing: Medication Assisted Treatment for Opioid Addiction</b> Kelly Dunn, M.D.	<b>Pediatric Diabetic Ketoacidosis</b> Curtis Knoles, M.D.	<b>Urology Pearls for the Emergency Department Physician</b> Joshua Vicena, D.O.
<b>Ocular Emergencies</b> Gavin Gardner, D.O.	<b>10 Recent Practice Changing Emergency Medicine Articles</b> Aaron Lane, D.O.	<b>Imaging in the Emergency Room: Common Pitfalls and Special Considerations</b> Donald von Borstel, D.O.



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# TOPICS & SPEAKERS

## 2023 COLA REVIEW

### **Bobby Abernathy, D.O.**

Dr. Abernathy currently is a Clinical Assistant Professor of Emergency Medicine with Oklahoma State University Medical Center. He graduated in 2012 from DeBusk College of Osteopathic Medicine in Harrogate, Tennessee. He completed his residency at Oklahoma State University Medical Center where he served as Chief Resident.

## ORTHOPAEDICS FOR THE EMERGENCY FOR THE EMERGENCY MEDICINE PHYSICIAN: "BREAKING" IT ALL DOWN

### **Keivan Abtahi, D.O.**

Dr. Abtahi completed his medical school training at Nova Southeastern University and Orthopedic Residency at Oklahoma State University Center for Health Sciences in Tulsa. He went on to complete an orthopedic trauma surgery fellowship at Duke University Medical Center in Durham, North Carolina. He currently practices with Orthopedic and Trauma Services of Oklahoma out of St. Francis and St. Johns in Tulsa, OK. He is adjunct faculty for the Oklahoma State University Orthopaedic Surgery residency program and the Oklahoma University Orthopaedic Trauma fellowship.

## SUICIDE RISK ASSESSMENT

### **Jason Beaman, D.O.**

Dr. Jason Beaman obtained his undergraduate degree and Doctorate in Osteopathic Medicine from Oklahoma State University. He obtained a Master's in Pharmacology from the University of Florida and a Master's in Public Health from John's Hopkins University. He completed residencies in Psychiatry and Family Medicine at the University of Oklahoma. He later obtained board certification in Addiction Medicine.

## 2022 COLA/CORE REVIEW

### **Tyson Bryant, D.O.**

Dr. Bryant completed his Medical school training in 2012 at Oklahoma State University College of Osteopathic Medicine.

He completed his Emergency Medicine residency at OSU Medical Center. He has worked with the Great Plains Regional Medical Center in Elk City, OK, St. Mary Regional Medical Center in Enid, OK, and the Indian Hospital in Claremore, OK. Currently, he's an Emergency Medicine Attending Physician with OSU Medical Center.

## WIDE COMPLEX TACHYCARDIA

### **Josh Burton, D.O.**

Dr. Burton completed medical school at A.T. Still University School of Osteopathic Medicine in Arizona and residency at Oklahoma State University Medical Center. He now practices emergency medicine in Northeast Oklahoma. He is a clinical assistant professor of emergency medicine for Oklahoma State University Center for Health Sciences.

## PROPER PRESCRIBING: MEDICATION ASSISTED TREATMENT FOR OPIOID ADDICTION

### **Kelly Dunn, M.D.**

Dr. Dunn currently serves as Clinical Assistant Professor of Psychiatry and Behavioral Sciences at OSU Center for Health Sciences. She is board certified in Psychiatry and Addiction medicine. She received her medical degree from the University of Oklahoma College of Medicine and completed her Psychiatry Residency at OU-Tulsa. She also serves at the Executive Director of Addiction Treatment for the National Center for Wellness and Recovery, Medical Director of Wellness for OSU-CHS and also serves as the Team Psychiatrist for OSU's NCAA athletes.

## OCULAR EMERGENCIES

### **Gavin Gardner, D.O.**

Dr. Gardner graduated from Oklahoma State College of Osteopathic Medicine in 2004. He graduated from the Emergency Medicine residency program at OSU Medical Center where he served as chief resident. After graduation he started his career at OSU Medical Center and continues to work there as Associate Clinical Professor of Emergency Medicine. He has been board certified in Emergency Medicine since 2010.

# TOPICS & SPEAKERS

He left OSU briefly to be the Facility Medical Director at Hillcrest Hospital South before returning to OSU in 2014. He works closely with the residents and students in and out of the Emergency Department at OSU Medical Center and currently serves as the Clerkship Director at OSU Medical Center and Emergency Medicine Course Coordinator for OSU College of Osteopathic Medicine. He currently sits on multiple committees both at OSU Medical Center and the Center for Health Sciences as well as serving on the Faculty Senate.

## 2023 COLA REVIEW

### Steven Gearhart, D.O.

Dr. Steven Gearhart graduated from Oklahoma State University College of Osteopathic Medicine in 2011. He completed his residency in Emergency Medicine at OSU Medical Center in Tulsa in 2015. Within his career he has worked with the Chickasaw Nation Medical Center in Ada, OK and Robley Rex VA Medical Center in Louisville, Kentucky and is now faculty at Oklahoma State University Medical Center working in the Emergency Department.

## INCREASED ANION GAP METABOLIC ACIDOSIS - A CASE BASED APPROACH

### Will Goodrich, D.O.

Dr. Goodrich is a medical toxicology fellow with University of Virginia Health and the Blue Ridge Poison Center in Charlottesville, VA. Currently he is serving as a Fellow in Training with the Toxicology Investigator's Consortium of the American College of Medical Toxicology. He is an Instructor in the Department of Emergency Medicine at the University of Virginia School Of Medicine, and helps teach their Wilderness Medicine course. He completed his emergency medicine residency at Oklahoma State University Medical Center in Tulsa, OK in 2021, while simultaneously earning a master's degree in Healthcare Administration at Oklahoma State University-College of Health Sciences in 2019. He graduated from A.T. Still University-School of Osteopathic Medicine in Arizona in 2017. His previous career was as a firefighter-paramedic-hazardous materials technician.

Dr. Goodrich's professional interests include critical care, poisonous and venomous biology, wilderness medicine, and addiction medicine. He enjoys hiking, mountain biking, soccer and vintage automobiles.

## ENT AIRWAY UPDATE

### Tom Hamilton, D.O.

Dr. Hamilton has been in private practice in Tulsa since 2003. His special interests include the care of children as well as sinus and snoring disorders. He graduated OSU-COM in 1998 and his residency in 2003. He is married and has three children and four grandchildren. Dr. Hamilton's hobbies include Iron Man triathlons, flying, shooting, Hip Hop, R&B, and motorcycles.

## COMPASSIONATE CARE IMPROVING OUTCOMES AND YOUR CAREER

### Anton Helman, M.D.

Dr. Anton Helman is an Emergency Physician at North York General in Toronto. He is an Assistant Professor at the University of Toronto, Division of Emergency Medicine and the Education Innovation Lead at the Schwartz-Reisman Emergency Medicine Institute. He is the founder, host and chief editor of The Emergency Medicine Cases podcast and Learning System.

## CARDIOVASCULAR EMERGENCIES

### Arash Karnama, D.O.

Dr. Arash Karnama is a 2005 graduate of Des Moines University College of Osteopathic Medicine and a 2005 graduate from the Internal Medicine Residency Training Program at Penn State. After graduating, Dr. Karnama went on to a fellowship at Oklahoma State University Medical Center in the Cardiology Fellowship Training Program and then the Interventional Cardiology Fellowship Training Program. Since 2009 Dr. Karnama has practiced as an Interventional Cardiologist, first at South Tulsa Cardiovascular Specialist, then at Oklahoma Heart Institute, and currently at OSU. Recently Dr. Karnama has served as the Chief of Staff and on Board of Trustees at Hillcrest Hospital in Claremore, OK.

# TOPICS & SPEAKERS

## **PEDIATRIC DIABETIC KETOACIDOSIS**

### **Curtis Knoles, M.D.**

Curtis L. Knoles, MD, FAAP, is Associate Professor in the Department of Pediatrics at the University of Oklahoma College of Medicine in Oklahoma City. He serves as Associate Chief Medical Director for the Medical Control Board in the EMS System for Metropolitan Oklahoma City and Tulsa. He also leads Oklahoma's EMS for Children initiative helping to improve EMS care for Oklahoma's pediatric patients.

## **10 RECENT PRACTICE CHANGING EMERGENCY MEDICINE ARTICLES**

### **Aaron Lane, D.O.**

Dr Aaron Lane serves as both the Chairman of the Oklahoma State University Department of Emergency Medicine. He is also the EM Residency Program Director. He is a 2002 graduate of Oklahoma State University College of Osteopathic Medicine, and completed residency at Integris Southwest Medical Center in 2006 where he served as Chief Resident. Immediately after residency he worked as faculty at Integris Southwest Medical Center before moving to Tulsa in late 2006 to reestablish the Emergency Medicine residency at Oklahoma State University Medical Center. He resides in Bixby, OK. He is married to Angela Lane, and has three children - Ainslie, Jack, and Lily.

## **EMERGENCY MEDICINE CORE CONCEPTS: MEDICAL-LEGAL REVIEW**

### **Kurtis Mayz, M.D.**

Dr. Mayz is the Chair of Pediatric Emergency Medicine and Medical Director of the Pediatric Emergency Center, at Saint Francis Children's Hospital in Tulsa, Oklahoma. He is board certified in both emergency medicine and pediatric emergency medicine. He has worked in several emergency and pediatric emergency departments around the country, encompassing a variety of different practice settings. His experience includes both administrative and clinical practice. In addition to his work as a practicing clinician, Dr. Mayz has served on multiple national ACEP committees most recently on bylaws and medical legal. He is the chair of the bylaws committee for OCEP.

He is also actively involved in risk and claims management, as well as litigation stress support, with United States Acute Care Solutions. Dr. Mayz is an attorney admitted to practice law in New York, New Jersey, and the Federal District Court of New Jersey. He lectures nationally on medical-legal issues in emergency medicine and is the owner of Medical Legal Mayz Consulting LLC.

## **ENVENOMATION'S OF OKLAHOMA**

### **Jason Moore, D.O.**

Dr. Jason Moore is a graduate of Oklahoma State University College of Osteopathic Medicine. He completed his Emergency Medicine Residency at OSU Medical Center. Dr. Moore is currently a Clinical Associate Professor at OSU Medical Center in the Emergency Department and a Specialty Physician at Oklahoma State Athletics Department. He has served as Director of Rehab and Community Cares at Woodward Regional Hospital, Vice President of Clinics and Outreach at Kimball Health Services, Director of Rehabilitation and Physical therapist at Kimball Health Services and Partner and President of Physical Therapy of the Bluffs, LLC.

## **ANTIBIOTICS UPDATE FOR EM PROVIDERS: THIS IS THE WAY**

### **Kelly Murray, Pharm.D.**

Dr. Kelly Murray received her Doctorate of Pharmacy from the University of Oklahoma College of Pharmacy in 2007. Her passion for ambulatory care pharmacy and medical education led her to OSU Center for Health Sciences, where she is currently a Clinical Associate Professor in the Department of Emergency Medicine. She is also the Emergency Department Clinical Pharmacist at OSU Medical Center, helping with drug therapy recommendations for patients with a wide range of acuity levels. She is the pharmacist hub team member of OSU's Mental Health, Pediatric Obesity, and Pediatric Emotional and Behavioral Health ECHO lines. She is also the Emergency Medicine residents' Research Director and received her board certification in ambulatory care pharmacy in 2011.

# TOPICS & SPEAKERS

## TRAUMA UPDATES

### Salim Rezaie, M.D.

Dr. Rezaie completed his medical school training at Texas A&M Health Science Center and continued his medical education with a combined Emergency Medicine/Internal Medicine residency at East Carolina University. Currently, he works as a community emergency physician at Greater San Antonio Emergency Physicians (GSEP), where he is the director of clinical education. He is also the creator and founder of REBEL EM and REBEL Cast, a free, critical appraisal blog and podcast that try to cut down knowledge translation gaps of research to bedside clinical practice.

## NON-INVASIVE POSITIVE PRESSURE VENTILATION

### Brie Roepke, D.O.

Dr. Roepke graduated from Oklahoma State University Center for Health Sciences in 2015. She did her residency in Emergency Medicine at OSU Medical Center, which ended in 2019. She has ABEM Board Certification. She has been the Clinical Assistant Professor of Emergency Medicine at OSUMC since 2019 and the Assistant Program Director of OSU Emergency Medicine Residency.

## UROLOGY PEARLS FOR THE EMERGENCY DEPARTMENT PHYSICIAN

### Joshua Vicena, D.O.

Dr. Joshua Vicena was born in Iowa City, IA and grew up in West Central Ohio. He is a graduate of Oral Roberts University. He obtained his medical degree at Oklahoma State University College of Osteopathic Medicine in Tulsa, OK. He completed his residency at Detroit Medical Center/Michigan State University in Detroit, MI. He is currently a partner and practicing physician at Urologic Specialists in Tulsa, OK. Dr. Vicena has 15 years' experience in urological surgery, with special interest in robotic and minimally invasive surgery as well as general urology. He is also very active in the local community and was named as a member of the 2018 Class of Oklahoma Magazine's 40 under 40. Dr. Vicena is a member of the American College of Osteopathic Surgery, American Osteopathic Association and American Urological Association.

He is board certified by the American Board of Osteopathic Surgery. He is a member and incoming President of the Oklahoma Urological Society. Dr. Vicena resides in Tulsa, OK with his wife and 3 children. He enjoys spending time with his family, hiking, sporting clays and reading non-fiction/non-medical books.

## IMAGING IN THE EMERGENCY ROOM: COMMON PITFALLS AND SPECIAL CONSIDERATIONS

### Donald Von Borstel, D.O.

Dr. Von Borstel graduated from the Lake Erie College of Osteopathic Medicine in 2010. He did his residency in Diagnostic Radiology at Oklahoma State University Medical Center and a Fellowship in Musculoskeletal/Orthopedic radiology at the University of California in Irvine, CA. He is currently an adjunct assistant professor at the Oklahoma State University Medical Center in Tulsa, OK and practices at Diagnostic Imaging Associates in Tulsa, OK. He is involved with several professional medical societies including the American Osteopathic College of Radiology and has been published in various journals. He has also been an invited lecturer at several national conferences.

# SAVE THE DATE

## 2023 AIRWAY SIMULATION

**August 4, 2023**

OSU Center for Health Sciences

4.25 AOA Category 1-A credits

4.25 AAFP Elective credits

4.25 Oklahoma Emergency Medical Services credits.

## 2023 VIRTUAL PRIMARY CARE UPDATE

**November 1–30, 2023**

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# ACCREDITATION INFORMATION

## CONFERENCE OBJECTIVES

The goal of the 2023 Emergency Medicine Review is to provide emergency physicians with the latest in evidence-based medicine practices. Program participants will then apply the knowledge gained back to their existing rural, suburban or urban practice allowing them to bridge the gap between previous therapies and the current best practices.

At the conclusion of this activity, learners will be able to:

- Recognize common, urgent, and emergent problems in the Emergency Department.
- Apply the most up-to-date practices when managing patients in the Emergency Department.
- Identify patients that will benefit from advanced treatment in the Emergency Department.

## AOA

The Oklahoma State University College of Osteopathic Medicine is accredited by the American Osteopathic Association to provide osteopathic continuing medical education for physicians. The Oklahoma State University College of Osteopathic Medicine designates this program for a maximum of 20 AOA Category 1-A credit(s), and will report CME and specialty credits commensurate with the extent of the physician's participation in this activity.

## AAFP

The AAFP has reviewed 2023 Virtual Emergency Medicine Review Conference and deemed it acceptable for up to 20.00 Enduring Materials, Self-Study AAFP Prescribed credits. Term of Approval is from 06/01/2023 to 06/29/2023. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

AAFP Prescribed credit is accepted by the American Medical Association as equivalent to AMA PRA Category 1 credit(s)<sup>™</sup> toward the AMA Physician's Recognition Award. When applying for the AMA PRA, Prescribed credit earned must be reported as Prescribed, not as Category 1.

## Oklahoma State Board of Pharmacy

The Oklahoma State Board of Pharmacy evaluated and approved for max 15 hour of CE credit.

## Oklahoma Emergency Medical Services

Approved for up to 20 credits to be applied towards EMS CEUs.

## OSU DISCLOSURES

Oklahoma State University Center for Health Sciences, College of Osteopathic Medicine in compliance with Title VI and VII of the Civil Rights Act of 1964, Executive Order 11246 as amended, Title IX of the Education Amendments of 1972, Americans with Disabilities Act of 1990, and other federal laws and regulations, does not discriminate on the basis of race, color, national origin, gender, qualified disability, religion, sexual orientation, gender identity, veteran's status, genetic information, or age in any of its policies, practices, or procedures. This includes but is not limited to admissions, employment, financial aid and educational services.

## PROGRAM ATTENDEE NOTICE

For grievances, please contact our staff to report any problems you may have regarding facilities, program content, etc. Concerns about the program's compliance with the AOA Uniform Guidelines, please contact Ashley Groom, M.S., Director of Continuing Medical Education For any unresolved issues regarding compliance with the AOA Uniform Guidelines, you may contact the AOA:

**American Osteopathic Association:  
Council on Continuing Medical Education**

**142 E. Ontario St., Chicago, IL 60611**

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