

2019 EMSAC CONFERENCE SESSION DESCRIPTIONS

FRIDAY 11/8/2019

10:30 AM – 12:00 PM

SESSION 1: Sweet & Low – A Pancreatic Dilemma of Systemic Proportions

Diabetes is not just a series of highs and lows. There are multiple chronic complications from head to toe which can eventually lead to serious disability and death. This course explores systemic medical issues beyond the glucometer

SESSION 2: How do I care for the dementia patient?

Dementia is so much more than memory loss. How can EMS providers care for these patients? This session offers the insight from two seasoned paramedics who experienced dementia in their own family members. Discussion will focus on how EMS can help the patient in their current crisis.

SESSION 3: Cadaver Lab Abdominal

A visual tour through the abdominal cavity will review the external anatomy and internal structures including the stomach, liver, large and small intestines, and other solid and hollow organs.

SESSION 4: Extreme Cases in Pediatric Trauma I:

Children have a habit of getting into things and places they aren't supposed to. This lecture will review some of the uncommon injuries found in the pediatric trauma population, some are humorous while others are of a very serious nature. Some less common alternative treatments will be reviewed.

SESSION 5: Caring for the Injured Rodeo Athlete

Caring for the injured rodeo athlete requires skilled and focused assessment. An emphasis must be placed on the mechanism of injury and its relation to assessment findings. This case based presentation will demonstrate the significance of prioritization in assessment to identify life threats.

SESSION 6: A subpoena?! Testifying skills for EMS Professionals

Receiving a subpoena can strike fear in the heart of anyone even more so when you don't know what to expect. This presentation will cover everything from your documentation before the subpoena comes to sitting in a deposition providing testimony in the courtroom.

HANDS ON SKILLS:

St. Anthony Prehospital Services ALS/BLS

This session will be conducted by instructors from St. Anthony Prehospital Services. Sim-Man and other human patient simulators will be utilized to provide scenario-based training in this hands-on skills lab. The goal will be to expose the participant to best practices in the management of high-acuity, low-volume patients and improve his/her comfort level in providing care to these patients.

1:30 PM – 2:30 PM

SESSION 7: What The Fentanyl?!? EMS and new drugs of abuse.

In recent years an increasing prevalence of drug overdoses has plagued EMS. From the powerful drug car fentanyl to synthetic marijuana it has become more and more difficult to keep up with new drugs of abuse. In this entertaining and informative lecture, new trends in drug abuse will be discussed.

SESSION 8: Rural Trauma - You're Still in Kansas Toto!

This lecture will cover some of the barriers to trauma care in general with a specific focus on the rural environment. The listener will learn why rural



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trauma carries a higher mortality rate and interventions to decrease it. Common misconceptions regarding EMTALA will be discussed.

SESSION 9: Cadaver Lab Abdominal

A visual tour through the abdominal cavity will review the external anatomy and internal structures including the stomach, liver, large and small intestines, and other solid and hollow organs.

SESSION 10: Case Reviews for the ALS Provider- Version 7.0

We are back with a whole new batch of cases to test even the most experienced provider. We will follow the patient's presentation from the EMS perspective through the hospital course on to discharge using actual EKG's, films, labs, radio reports, and assessments to determine the case progression.

SESSION 11: Coroners Scenes 2019

A though provoking presentation for first responders that provides insight into the coroner's involvement on a death scene. This block will cover the goals and responsibilities of the coroner investigator, specific case

presentations with actual crime scene photos and outcomes.

SESSION 12: A Year in The Park - Wilderness Medicine from a National Park Service Climbing Ranger Paramedic

Rocky Mountain National Park sees 4.5 million visitors a year and averages about 250 Search and Rescue operations making Rocky one of the busiest Search and Rescue Parks in the country. This session cover's a season of Wilderness EMS case studies at Rocky By Climbing Ranger/Paramedic Kevin Sturmer

HANDS ON SKILLS: Flight for Life Colorado ALS & BLS Airway Lab

Join the crews of Flight For Life Colorado for this hands on, interactive ALS/BLS airway lab. This lab provides ample opportunity for the provider to practice good technique in airway control. Best practices in surgical cricothyrotomy, intubation, NPA/OPA, supraglottic airway(s), and BVM ventilation will be covered.

3:00 PM – 4:00 PM

SESSION 13: A New Paradigm in Trauma Resuscitation

Trauma resuscitation has classically been cookie cutter

medicine. This session will look at the current science and recommendations for fluid replacement therapy, trauma specific pharmacology, and new strategies in resuscitation.

SESSION 14: Be The Best at BLS: Current Trends in Cardiac Resuscitation For The BLS Provider

Large A.L.S. agencies profit from robust protocol development teams, while rural and some BLS agencies might wonder how their cardiac arrest treatment can be optimized. We will review current trends and science to help simplify, customize and improve cardiac resuscitation.

SESSION 15: Cadaver Lab: Thoracic

This session will review the anatomy of the thoracic cavity.

SESSION 16: Care of the Traumatic Limb Injury: The Good, The Bad, and the Ugly

Dr Schnur will discuss the treatment algorithm and decision making process that is involved in the care of patients with replantable amputations and mangled extremities. He will go over real cases and their outcomes in gory detail.



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SESSION 17: Transport Ventilators for Critical Care Paramedics

A review and practice of ventilator strategies for the community based transport provider.

SESSION 18: Extreme Sports and Backcountry Medicine Implications

Case based presentation highlight examples of traditional injuries in a non-traditional setting. Discuss the role of training, protocols and direction in the management of these patients. Television and social media lure under-prepared risk-takers to dangerous activities in dangerous environments.

HANDS ON SKILLS: Flight for Life Colorado ALS & BLS Airway Lab

Join the crews of Flight For Life Colorado for this hands on, interactive ALS/BLS airway lab. This lab provides ample opportunity for the provider to practice good technique in airway control. Best practices in surgical cricothyrotomy, intubation, NPA/OPA, supraglottic airway(s), and BVM ventilation will be covered.

4:15 PM – 5:15 PM

SESSION 19: Terrible T-Waves!

When interpreting the ECG in the acute care setting much attention is given to the ST-segment but not the T-wave. This lecture will cover all aspects of T-wave morphologies. Learn to differentiate the hyperacute T-waves of coronary occlusion to the inverted T-waves of myocardial ischemia and more.

SESSION 20: Handoff in the Hospital – Should we checklist?

The transfer of essential information and the responsibility for care of the patient from EMS to the hospital is an integral component of care. An effective handoff supports the transition of critical information and continuity of care. A checklist may reduce the risks of ineffective handoffs.

SESSION 21: Cadaver Lab Cadaver Lab: Thoracic

This session will review the anatomy of the thoracic cavity.

SESSION 22: Case Studies in Respiratory Compromise

Clinicians have begun to focus on early recognition of respiratory compromise, a

condition in which patients appear stable-- and then rapidly deteriorate. This program will use 3 cases to illustrate physiology and recognition of respiratory compromise as well as the steps for stabilization.

SESSION 23: Lung protective ventilation – bringing the ICU to the field

In this session we will discuss the normal physiology of ventilation and importance of modifying ventilator settings, modes, and lung recruitment strategies to optimize patient outcomes.

SESSION 24: Pediatric Trauma Resuscitation - Fluid, Blood and Prayers Oh My!

When do we resuscitate children? How do we resuscitate children? How much is too much and how much is not enough? This lecture covers the resuscitation of children and how that differs from adults and what the most evidence-based medicine says.

SATURDAY 11/9/2019

8:00 AM – 9:30 AM



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SESSION 25: The Cirrhotic patient...“maybe they’re not drunk”

Liver disease is unfortunately a fairly common occurrence. This lecture will cover the pathophysiology of the patient with liver disease that leads them to be high risk for medical emergencies and the treatment indicated in a case based format

SESSION 26: Updates in Pediatric Trauma care and Trauma Systems: Transport, Medication and More!

Pediatric trauma care has evolved over the past 30 years. The development of systems of trauma care including pediatric trauma centers has dramatically improved outcomes. The aim of this talk is to describe prehospital analgesia, hemorrhage control and airway management in the setting of trauma.

SESSION 27: Cadaver Lab

SESSION 28: Posterior Strokes: Improved EMS Recognition for an Elusive Emergency

However, our traditional FAST exams and NIH scales aren’t good at picking up on this life altering diagnosis. This lecture will help review the basic pathophysiology of strokes and

provide you with some clinical clues, so this time sensitive emergency doesn’t trick you even as a seasoned provider.

SESSION 29: Riding the waves: Prehospital Ultrasound

In this lecture, we will spend our time talking about ultrasound's use in resuscitation and as an adjunct to the performance of procedures. US can be used to determine if a patient is likely to crash or the reason why a patient crashed.

SESSION 30: A Seizure is a Seizure right? SUDEP, complications and comorbidities in Intractable Seizures

Intractable/status seizure patients; adverse effects including SUDEP, Dysregulations in the brain, short/long term effects, comorbidities, as well as, side effects of anti-epileptic medications, and interactions with other medications will be discussed. Summary; how it affects all involved.

9:45 AM – 11:15 AM

SESSION 31: Misses and Mimics: Advance ECG Recognition of Ischemia

Fun, interactive, case-based presentation of common (and rare) mimics, as well as misses

SESSION 32: Pragmatic EKG’s

The pragmatic EKG course will cover the pathophysiology of dysrhythmias along with critical /life threatening mimics of common dysrhythmias in a case based, practical / easily useable format: “Too Fast, Too Slow, or “Ok’ish

SESSION 33: Cadaver Lab: Brain Dissection

A visual tour through the cranial vault will review the external and internal structures of the skull and brain as well as parts of the spine and other nervous structures. During the session each participant will have a brain to dissect.

SESSION 34: All Things Colorado

This presentation takes an in depth look at things unique to Colorado; Bites and Stings, Cold Injuries, High Altitude Illnesses and Medical Issues Associated with Marijuana.

SESSION 35: Electrocardiograms in the Poisoned Patient

Poisonings are one of the major non-cardiac etiologies of out-of-hospital cardiac arrest. The diagnosis and management of patients manifesting ECG



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changes after poisonings challenge even the most experienced. This lecture offers a structured approach to ECG interpretation in poisoned patients.

SESSION 36: New Beginnings

NEW BEGINNINGS: Dr. Mark will open up your minds to the endless possibilities that await you. Just as the Sun rises on the horizon of each new day; you also must rise to the possibilities on the horizon of each new adventure in your life.

HANDS ON SKILLS: Children's Hospital Colorado ALS/BLS

Have you ever wanted to ask a Children's Hospital ER Physician a question while delivering a patient, but it just wasn't the right time? Here's your chance to participate in scenario-based learning, headed by The Children's Hospital ED physicians, in a fun, relaxed environment. Best practices will be discussed in the management of the acutely sick or injured pediatric patient.

11:30 AM – 12:30 PM

SESSION 37: Dialyze this...Renal Emergencies

Chronic Kidney disease is commonly encountered in the pre-hospital environment. This course will cover the pathophysiology and treatment of patients with chronic or end stage renal disease in a case based format.

SESSION 38: 12-lead Basics for the EMT: An Essential Skill Set in a Time Sensitive Emergency

This lecture will demystify the 12-lead for the EMT and the EMR professionals. Time will be spent on CAD prevention strategies, basic anatomy and conduction pathways. This topic will be translated into a language that all responders can understand

SESSION 39: Cadaver Lab: Brain Dissection

A visual tour through the cranial vault will review the external and internal structures of the skull and brain as well as parts of the spine and other nervous structures. During the session each participant will have a brain to dissect.

SESSION 40: "When our paths crossed"

This presentation will provide a unique clinical perspective that is only seen in the rarest of circumstances. This lecture is

sure to tug at your emotional heartstrings, while satisfying your clinical needs.

SESSION 41: What's the Scoop on Expanding Neurologic Assessment?

In many situations, patient assessment practices for neurologic emergencies falls short of what is required to adequately identify abnormalities. This session identifies the components needed to expand a neurologic assessment beyond basic stroke scales.

SESSION 42: Ten ECG Topics You've Probably Forgotten Since Paramedic School

Practice, examples, and instruction of STEMI mimics and potentially life-threatening conditions, including QT intervals, left ventricular hypertrophy, hyperkalemia, hypothermia, pulmonary embolism, WCTs (don't differentiate; treat them all the same!) and causes of syncope visible on ECGs.

HANDS ON SKILLS: Arapahoe Community College

High-definition simulation equipment will be utilized to provide scenario-based/ real-time training in this skills lab.



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The goal will be to provide the participant with exposure to high-acuity, low- volume scenarios to improve his/her comfort level in treating difficult patient presentations.

1:45 PM – 3:15 PM

SESSION 43: Pediatric Airway Management Without the Cowboy Hat

Pediatric airway management is a rare, stress provoking event for all providers. In this session, we discuss the clinically relevant differences between the pediatric and adult airway, identify predictors of a difficult pediatric airway, and formulate a plan in the event of unanticipated difficulty.

SESSION 44: The Blind Date: Pt Assessment

Our calls are like a blind date, we are meeting a stranger for the first time. We need to set a good first impression, engage in a conversation, & create a lasting impression. The session is geared for the BLS provider, focusing on the basics. Covers what every assessment needs to be successful.

SESSION 45: Cadaver Lab Cadaver Lab: Heart Dissection

You will be taught all about the inner workings of the heart,

physiologically speaking. This hands-on dissection lab is guaranteed to be fun and low-stress.

SESSION 46: Frozen - how to manage the difficult airway in hypothermia

You are dispatched to the report of a patient found in an alley around 0500 in a mountain town. It is Mid-October and the outside temp is in the low teens. You find a female patient who appears severely hypothermic, unresponsive, with bradypnea. You have established you need to take her airway.

SESSION 47: Turning Tragedy into Positive Action

This session will detail the HEMS crash on July 3, 2015 in Frisco, CO and highlight the efforts to correct flaws in the legislative system that led to tragic, yet preventable outcomes.

SESSION 48: Infectious diseases you should know.

This lecture will cover a broad range of infectious diseases both common in Colorado and ones we may see from people traveling here from other locals.

HANDS ON SKILLS: Children's Hospital Colorado ALS/BLS

Have you ever wanted to ask a Children's Hospital ER Physician a question while delivering a patient, but it just wasn't the right time? Here's your chance to participate in scenario-based learning, headed by The Children's Hospital ED physicians, in a fun, relaxed environment. Best practices will be discussed in the management of the acutely sick or injured pediatric patient.

3:45 PM – 4:45 PM

SESSION 49: Pain management and the opioid crisis: EMS at the intersection

The leading EMS physician state experts will present and debate the evolving science and evidence-based approach to pain management of patients in the pre-hospital setting at a time where the opioid crisis has resulted in an unprecedented number of rising overdose deaths.

SESSION 50: Geriatrics and Frailty Syndrome: The Wisdom of the Aged

This lecture will prepare you to care for an aging population. It can be argued that age and wisdom go hand in hand. In this talk we will harness the fact that geriatrics can teach us a great deal as we try to navigate



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healthcare and understand more about the field of medicine.

SESSION 51: Cadaver Lab: Heart Dissection

You will be taught all about the inner workings of the heart, physiologically speaking. This hands-on dissection lab is guaranteed to be fun and low-stress.

SESSION 52: Wild & Wonderful Colorado EMS! Unique & Crazy Case reviews of being an EMS provider in Colorado!

A man falls off a cliff face, backyard mountain lion attack, changing weather & altitude leading to a 9-1-1 call. Colorado EMS providers encounter unique calls and challenges not seen every day. Intriguing EMS case reviews that you may not see just anywhere but you may see in Colorado.

SESSION 53: 1 Pill, 2 Pills, Red Pills, Blue Pills

Join me in a detailed and lively discussion of the unusual and dangerous substances people are using to alter their reality. We will discuss the pre-hospital assessment and management techniques needed in order to save patients from themselves and their poor decisions.

SESSION 54: New Developments in Anaphylaxis, Discussion of 2019 EMS Protocol Updates

The session will focus on new developments in the management of anaphylaxis. Particular focus will be given to appropriate diagnosis based on the NIAID/FAAN anaphylaxis criteria with emphasis on the rationale for the 2019 updates to the Denver Metro EMS protocols for the treatment of anaphylaxis.

HANDS ON SKILLS: Arapahoe Community College

High-definition simulation equipment will be utilized to provide scenario-based/ real-time training in this skills lab. The goal will be to provide the participant with exposure to high-acuity, low-volume scenarios to improve his/her comfort level in treating difficult patient presentations.

SUNDAY 11/10/2019

8:00 AM – 9:15 PM

SESSION 55: Ketamine For The Critically Ill Patient

More than just preserved respirations and emergency phenomenon, this session will discuss the finer details of this

old, but new drug including the latest recommendations in analgesic dosing, the Ketamine dose-response curve, common side effects, and emerging research that will improve patient care.

SESSION 56: Pediatric Transport in Disasters

This session will describe current capabilities and gaps, as well as lessons learned from previous disaster evacuations. Learn how to plan for and respond to pediatric mass transportation issues.

SESSION 57: Cadaver Lab

SESSION 58: Pediatric Sports Trauma and the kinetics involved

In addition to bigger, stronger, and faster. Kids at younger ages both boys and girls are competing in sports like MMA, motocross, drag racing, cheer, and horsing events. This course will discuss the risk factors, safety equipment, kinetics, and injury patterns for several types of contact sports.

SESSION 59: Burn Questions

Presentation that covers the most frequently asked questions regarding emergent



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pre-hospital and acute care of burn patients

SESSION 60: Medical Grand Rounds - Awesome Case Reviews

Medical Grand Rounds for cases unique to the resort environment. This presentation will review unique medical encounters of Eagle County Paramedics in the Ski Resort and Rural Environment.

9:30 AM – 10:45 PM

SESSION 61: Advanced Capnography for EMS

This presentation will cover basic & advanced uses of capnography. We review some basic physiology and review what a normal capnograph shows you. We discuss current advances in using capnography for sepsis alert protocols, intubation confirmation, cardiac resuscitation, and other topics.

SESSION 62: The Mental Health Assessment Program a (MAP) to behavioral assessment, intervention, and navigation

This program is a look at providing services through an alternative care model to ensure clients in behavioral crises are safely evaluated and navigated to appropriate

alternative destinations to improve outcomes and patient satisfaction while reducing the cost of providing crises care.

SESSION 63: Cadaver Lab

SESSION 64: Game of Hormones (Endocrine for EMS)

Endocrinology is a difficult subject for many healthcare providers. This one hour course covers the majority of endocrine system function and will help to explain simply and efficiently associated emergencies.

SESSION 65: EVACUATE! Life or Death in Minutes

This session will review the trials and tribulations of the 2017 and 2018 Northern California Wildfires that resulted in the largest, most deadline, and most destructive wildfires in the State's history.

SESSION 66: Risky Business

In this class we will be looking at the risks associated with completing a refusal in the field. Would you want someone to refuse your family member even if they needed to go but didn't want to. There are so many cases that we refuse that could put us at huge liability and yet we do it every day.

11:00 AM – 12:15 PM

SESSION 67: Acid/Base Physiology: What It Is, How It Works, And Why You Should Know

Acid/Base physiology is a topic difficult enough that physicians sometimes find it challenging. However, with new tools available in EMS, a greater understanding is vital to us in EMS. We will explore the basis of pH, disorders affecting it, and assessments/treatments which can be used in the field.

SESSION 68: Pregnancy in Trauma: The Essentials

Caring for the pregnant injured patient has many different challenges. This session will instruct the participant on the priorities in the assessment and management of the injured pregnant patient through a case review approach.

SESSION 69: Cadaver Lab

SESSION 70: Blood On-Board: Prehospital trauma resuscitation with whole blood.

The resuscitation of hemorrhagic shock has seen many changes. While the



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prehospital use of blood products is not new, recent findings from the military indicate that whole blood may be better than component therapy. Let's examine the use of whole blood in the care of the bleeding patient.

SESSION 71: SPM - Bariatric Emergencies

This presentation will address the common challenges, call makeup and requirements for pre-planning when treating the morbidly obese.

SESSION 72: Colorado EMS and Trauma: State of the State

Overview of Colorado's EMS and trauma system, with specifics on your provider certification and how current state level policy and upcoming rule changes may affect you and your scope of practice.

