



37th Arrowhead EMS Conference & Expo

Saturday, January 21, 2017 – Presentation Information

All information provided by presenter(s)

French River Room – Advanced Life Support Track

Session: “Organized Chaos: Four Patients and a Medic”

Saturday, January 21, 2017

Presenter(s): Jason Dush

8:30 am - 10:00 am

Session Description: Should the rescuers move quickly through all the victims making some errors? Or, should they go more slowly, aiming for a higher degree of accuracy? Should they begin treatment, or finish the triage first? Should they start CPR on the victim who is in full arrest? The answers to these questions called for a sensible, orderly triage protocol for MCI's. A search of paramedic training material and medical literature revealed several applicable concepts, but no specific, step-by-step plans for initial MCI triage for small scale incidents.

Session Objectives:

- Describe initial scene assessment and impression
- Discuss multi-patient scene management and considerations
- Discuss patient care priorities during multi-patient incidents
- Discuss common transport guidelines

Session: “Machines are the Heart of the Matter”

Saturday, January 21, 2017

Presenter(s): JoEllen Evavold

10:30 am - 12:00 pm

Session Description: Your patient may have no pulse but he is awake to tell you what to do to shut off that obnoxious noise! LVADs save lives. Join the discussion on how to care for LVADs in an emergency as more people with advanced heart failure are living in our communities with machines.

Session Objectives:

- Review what left ventricular assist devices do for advanced heart failure and how to assess vital signs
- Hear what to do and what not to do in emergency care of a patient with a LVAD

Session: “End Stage to Donor Renewed”

Saturday, January 21, 2017

Presenter(s): JoEllen Evavold

1:30 pm - 3:00 pm

Session Description: What if your best efforts in cardiogenic shock does not save muscle?! What can happen to those traumatic brain victims? Join the discussion on how end stage heart failure can benefit from a donor heart and make EMS care pivotal in the success of the renewed life of a transplant patient.

Session Objectives:

- Review cardiogenic shock and what treatment options improve advanced heart failure
- Learn about the National waitlist and donor matching
- Hear the case review of a woman who survived because of CPR and EMS and received a heart transplant

Session: “Electronics in EMS: Treat Your Patient, Not Your App”

Saturday, January 21, 2017

Presenter(s): Reuben Farnsworth

3:30 pm - 5:00 pm

Session Description: Have you ever done a search on the app store for Paramedic apps? There are countless apps that will do everything from calculate stroke scores to performing 12 leads. Which apps are right for you and do they have a place in your ambulance? There are some excellent apps and we can use them in EMS. Join us as we discuss and evaluate the use of apps in EMS.



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Session Objectives:

- The student will be able to identify issues that can arise from app usage in the field.
- The student will be able to explain how apps can improve their patient care.
- The student will be able to compare and contrast the need to balance the use of technology within the pt. care paradigm.
- The student will be able to identify specific situations which necessitate maintaining excellent assessment skills independent of their technological devices.

Lake Superior Ballroom L, M – Basic Life Support Track

Session: "Elizabeth, I'm Coming to Join You"

Saturday, January 21, 2017

Presenter(s): Ron Lawler

8:30 am - 10:00 am

Session Description: This session will review the physiology of chest pain, assessment tips and general treatment guidelines for the BLS provider. NCCR - BLS Chest Pain from cardiovascular causes

Session Objectives:

- Students will be able to identify patients with both typical and atypical chest pain.
- The student will have a better understanding of assessment techniques for cardiac chest pain.
- BLS treatments will be reviewed.

Session: "Trauma Martini On The Rocks"

Saturday, January 21, 2017

Presenter(s): Reuben Farnsworth

10:30 am - 12:00 pm

Session Description: You are toned to respond to a local gravel quarry for..... (Use your imagination and insert your favorite mining trauma here.) If you want to know more about crazy trauma, look no further. Whether you crave crushing injuries by 30 ton machines, falls, explosions, or just a good fracture, this is the class for you. We will delve into the many unique injuries and mechanisms of injury that occur in mining operations. And don't forget scene safety. Let the mayhem begin!!!

Session Objectives:

- The student will understand identify the unique types of trauma that occur in the setting of mining operations.
- The student will list scene safety issues that are unique to mining operations.
- The student will list and identify some of the unique scenarios and complications that arise with mine trauma.

Session: "No O2 for You!"

Saturday, January 21, 2017

Presenter(s): Janet Taylor

1:30 pm - 3:00 pm

Session Description: 30 years ago it was thought that if a little oxygen was good for you, then a lot must be even better. And that was how it was until studies proved that too much of a good thing really isn't the best for our patients. Oxygen titration is now recommended in many nationally recognized programs such as ACLS, NRP, PALS, and more. But why can't we give some extra oxygen to our patients? What bad could really happen if we continue to do what we have been doing for over 30 years?

Session Objectives:

- Understand how oxygen at greater than 21% is chemically unstable.
- Define "oxygen free radical" and how it can inhibit healing from illness or injury.



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- List two reasons why administering oxygen is still considered a good thing.

Session: "I've Got a Crush on You"

Saturday, January 21, 2017

Presenter(s): Janet Taylor

3:30 pm - 5:00 pm

Session Description: Why isn't the systemic effect of crushing your hand the same as crushing your leg? What happens that makes crush injuries distinctive from other trauma injuries? In this session, we will go over crush injuries from start to finish. What happens the moment a heavy weight hits the body and what do we need to do before that weight comes off. We will review some common medications in EMS that we need to have available in order to improve your patient's outcome and why they should be given.

Session Objectives:

- Differentiate between Crush Injury and Crush Syndrome
- List at least two complications that occur with Crush Syndrome
- List the most common areas of the body that are more susceptible to creating Crush Syndrome.

Lake Superior Ballroom N, O – Pediatric Track

Session: "Pediatric Overdose-Single Pills That Kill"

Saturday, January 21, 2017

Presenter(s): Dr. Peter Antevy

8:30 am - 10:00 am

Session Description: Pediatric intoxications are an integral part of every paramedic's daily considerations and can be difficult to diagnose without the ability to look for subtle clues. Treatment decisions for certain overdoses are time sensitive and require rapid treatment in order to avert death. Join Dr. Antevy for a fun ride through the roller coaster of pediatric overdoses and medications that can kill in a single dose.

Session Objectives:

- Describe the severity of pediatric overdose in the United States
- Understand pharmacology and overdose from a pediatric perspective
- Discuss the single pills that can kill a child
- Discuss prevention and intervention methods related to pediatric overdose

Session: "Don't Know Nothin' Bout Birthin' No Babies!"

Saturday, January 21, 2017

Presenter(s): Janet Taylor

10:30 am - 12:00 pm

Session Description: One of the most popular presentations of Janet's and receiving compliments from obstetricians and midwives, this presentation has it all. We review a normal pregnancy state and go right into a typical delivery and immediate post-partum care. Also covered are delivery complications including turtle sign, post partum hemorrhage, inverted uterus and more!

Session Objectives:

- List at least three complications that could occur with a delivery and know what interventions to perform to improve mother and baby outcomes
- Assess and treat both mother and baby in order to alleviate long-term complications that could be associated with delivery.
- Demonstrate the typical delivery method for a vaginal birth and how to assess an infant



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Session: "The Unspoken: Child Abuse and Neglect"

Saturday, January 21, 2017

Presenter(s): Dwight A. Polk

1:30 pm - 3:00 pm

Session Description: Child abuse is one of society's most devastating events. For the EMS provider, it's the call that we all wish we could avoid. This presentation looks at the symptomatology of child abuse and the prehospital management of this situation. Warning: This is a very graphic presentation. Those with personal memories or experience may wish to attend an optional session.

Session Objectives:

- Differentiate between child neglect and abuse
- List characteristics which make a child more susceptible to becoming a fatality
- List three signs or symptoms of each type of abusive behavior e.g. tie marks, burns, or sexual abuse

Session: "Youth Suicide: When Kids Do The Unthinkable"

Saturday, January 21, 2017

Presenter(s): Dwight A. Polk

3:30 pm - 5:00 pm

Session Description: Nothing can be more tragic than hearing that a young person has killed themselves. Suicide is the ultimate--a permanent solution to a temporary problem. What makes this particular population at risk for suicide? This lecture will explore common traits of youth suicide, warning signs, and assessment techniques. Intervention and coping strategies for the emergency responder will be also be discussed, as well as examining what happens to the survivors who are left behind.

Session Objectives:

- Review common trends in youth suicide
- Discuss common characteristics for this particular population
- List three emotions expressed by "suicide survivors"

Gooseberry Falls Room – General Track

Session: "In the Dark"

Saturday, January 21, 2017

Presenter(s): Amy Eisenhauer

8:30 am - 10:00 am

Session Description: One in 12 adults in the United States are either alcohol dependent or abuse alcohol. Often, these are our "frequent fliers" and they inspire irritation among us rather than compassion. This session will describe the disease of alcoholism, it's co-morbid diseases, and typical treatments. We will also cover binge drinking and other alcohol related presentations EMS providers might encounter. Conversation about societal and EMS perceptions of alcoholics will also be included.

Session Objectives:

- Understand the disease of alcoholism, its co-morbid diseases, and typical long term treatment options.
- Recognize typical related emergent presentations EMS providers might encounter.
- Discuss how society at large and EMS culture views alcohol related illness.



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Session: "It's In Our Back Yard: Domestic Terrorism on the Rise"

Saturday, January 21, 2017

Presenter(s): Jason Dush

10:30 am - 12:00 pm

Session Description: Domestic Terrorism has become a big challenge for public safety and the health care industry facing everything from deadly mass shootings to bombings. Since 9/11, the number of state side incidents that are related to international terrorist groups to individuals acting alone are on the rise at a fast pace. The question remains, "What are we doing to be proactive vs. reactive?" Active shooter drills have become the norm for training law enforcement and first responders. Mass shooting protocols are starting to become a frequent policy addition for most agencies. Intelligence units within law enforcement are working more with federal assets to keep our communities safer. However we have to ask additional questions about whether we're paying enough attention to domestic terrorism following the September 11, 2001 attacks. This session will evaluate numerous domestic terrorism events and address ways to improve situational awareness and challenges we continue to face.

Session Objectives:

- Review the latest statistical data
- Discuss the common challenges with scene responses
- Discuss response plans and preparedness

Session: "Creating a Culture of Civility: Challenges, Chaos, and Recommendations"

Saturday, January 21, 2017

Presenter(s): Jason Dush

1:30 pm - 3:00 pm

Session Description: Tired of dealing with people who BMW (bitch, moan and whine) and bully all the time? They suck our energy from us and pluck our last nerve. Labeled as "it is just their personality" they keep getting away with their behavior. In a time when team work, good communication, and solid interpersonal relationships are critical for creating a stress free environment that meets the public's needs, we can no longer afford to allow this behavior to continue. This session will look at how to deal with them and what to do when they accept no responsibility for their behavior and its impact on others. This session is helpful for anyone who is tired of working with "them" and would love some new insight.

Session Objectives:

- Define Culture and Civility
- Discuss key components to maintaining successful TEAMWORK
- Determine what YOUR role is in YOUR team

Session: "How to Expect the Unexpected"

Saturday, January 21, 2017

Presenter(s): Jason Dush

3:30 pm - 5:00 pm

Session Description: It happens so fast you don't have time to think about it...until later. How do we perform under pressure? Who's the right person for the crisis on hand? How do we prepare for the "what if" call or situation? Crew Resource Management known as CRM has been mastered in the airline industry. Have we really taken a look at how CRM applies to EMS calls, the emergency department, fire ground operations, and MCI's? This lecture will take an in depth look at how we as clinicians and public servants can apply the same concepts on the ground that are used at 35,000 feet in the air.

Session Objectives:

- Discuss the factors of decision making under stress
- Discuss common mistakes made during stressful incidents
- Discuss training mechanisms to increase scene performance



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St. Louis River Room - General

Session: "Intersections"

Saturday, January 21, 2017
8:30 am - 10:00 am

Presenter(s): Katelyn Wilson and Ross Chavez

Session Description: EMS professionals will recognize their significant role in saving lives through donation and transplantation. While care for critically injured individuals in the field is commonplace, seldom do EMS staff have the opportunity to learn about the amazing outcomes of donation that may start with the life-sustaining interventions initiated by their important work before the patient's arrival to a hospital. This presentation tells the story of organ, eye and tissue donation from the field management of patients with critical injuries, hospital referral, recovery, and transplantation: identifies key elements of this process; and provides insight into improving organ, eye and tissue donation opportunities and outcomes.

Session Objectives:

- Identify the need for transplantable organs and tissues.
- Identify and describe key interventions EMS professionals employ to maintain and maximize both opportunities for survival and donation.
- Become familiar with CMS guidelines, referral process, authorization, and ultimately recovery of organs, eyes and tissues for transplantation.

Session: "Once Bitten, Twice Shy"

Saturday, January 21, 2017
10:30 am - 12:00 pm

Presenter(s): Kirk Hughes

Session Description: This presentation will identify various poisonous/venomous creatures that EMS can encounter. Attendees will learn which species are medically significant to humans and the latest evidence-based treatments are appropriate. If you like spiders, snakes and other venomous critters, this is a don't miss session. Even if these critters don't thrill you, after this session you will know how to appropriately treat these patients from an EMS standpoint.

Session Objectives:

- Identify venomous creatures that are of medical significance to humans
- Recognize the various organ systems involved with a venomous creature exposure and what signs/symptoms are commonly seen
- Identify appropriate, evidence-based treatment form an EMS perspective

Session: "Bongs, Buds & Bath Salts"

Saturday, January 21, 2017
1:30 pm - 3:00 pm

Presenter(s): Kirk Hughes

Session Description: This presentation will provide the most up-to-date information regarding treatment, trends, and effects of various drugs of abuse including: THC & Synthetic cannabinoids, Bath salts and other hallucinogenic stimulants, and emerging novel opiates not previous seen before. Don't miss this dynamic and information-packed review.

Session Objectives:

- Identify and discussed new emerging novel opiate compounds not previous identified in the medical literature
- Recognize the clinical effects of hallucinogenic stimulants
- Describe the most recent evidence based treatment for EMS



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Session: "Critical Incident Stress Management: Debriefing and More"

Saturday, January 21, 2017

Presenter(s): Holly E. Brodt and Johnnie Hyde

3:30 pm - 5:00 pm

Session Description: Critical Incident Stress Management: Debriefings and More, provides a comprehensive look at how CISM works, including: Critical Incident Defusings, Critical Incident Debriefing, Crisis Management Briefing, Demobilizations and support. Additionally, see how CISM can benefit you and your organization with information, education and support services.

Session Objectives:

- Understand how Critical Incident Stress Management Teams work.
- Understand how each critical incident is unique and requires its own CISM professional approach
- Understand how Arrowhead CISM services and educational programs can be customized to your organizational needs

Split Rock Room – Behavioral Track

Session: "Crisis in the Field: Managing Behavioral Emergencies"

Saturday, January 21, 2017

Presenter(s): Dwight A. Polk

8:30 am - 10:00 am

Session Description: Behavioral emergencies can be scary calls! Patients are often unpredictable and can become violent. This presentation is designed to provide a basic overview and management of the patient in psychological crisis.

Session Objectives:

- Define behavioral emergency
- Understand factors specific to those in crisis
- Identify components of common psychiatric illnesses
- List the elements of a MSE
- Know how to approach patients in crisis
- Describe techniques in intervention and transport

Session: "De-escalation Techniques: Let's Talk About It!"

Saturday, January 21, 2017

Presenter(s): Dwight A. Polk

10:30 am - 12:00 pm

Session Description: One of the best skills in the emergency responder's bag of tricks is the ability to communicate with patients. So how do you go about talking down individuals in crisis who are panicked, scared, or out of control. This class will focus on how to conduct a quick scene-safety check, assess the client, and provide you a model on how to de-escalate patients who need your assistance.

Session Objectives:

- Perform a SEA-3 mental status examination
- Discuss the characteristics of active listening
- Understand the concept of therapeutic communication
- Use the SAFER-R method to de-escalate a patient in crisis

Session: "Is Your Agency Ready for an Emotional Disaster?"

Saturday, January 21, 2017

Presenter(s): Amy Eisenhauer

1:30 pm - 3:00 pm

Session Description: We are in the preparedness business. We expect the "what if," and have an answer to the question, "what now?" We buy ANSI vests, helmets and reflective jackets for physical protection, but what do we do to protect



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ourselves mentally? EMS provider PTSD and suicide awareness has increased over the past few years, but how to we translate awareness into action? This presentation will discuss the importance of integrating CISM and other mental health resources into agency SOP/ SOG, resilience training for both new and veteran providers, provider fatigue for both personnel and leaders, and retirement planning.

Session Objectives:

- Understand and implement resilience tools in initial and continuing education as well as signs and symptoms of PTSD/Stress/Impending suicide
- Recognize the importance of incorporating provider mental health into agency culture and operations plans to include SOG/SOP and Workman's Comp insurance/EAP
- Implement culture change in EMS related to provider mental health via leadership implementation and action on an agency and individual level

Session: "Not Just In the Movies"

Saturday, January 21, 2017

Presenter(s): Amy Eisenhauer

3:30 pm - 5:00 pm

Session Description: In recent years the veil of stigma against asking for mental health help has been pierced, but continued education and awareness is needed to strengthen EMS provider mental health. This session will use video clips from prominent EMS, fire, and military related movies and shows, to discuss precursors and signs that could lead to provider suicide including the role PTSD, personal problems, and addictions play. Amy will also examine specific issues and discuss programs that are challenging the current stigma of asking for help.

Session Objectives:

- Identify Precursors and warning signs leading to suicide.
- Identify roles PTSD, personal problems, and addictions play in relation to suicide among EMS providers.
- Learn what resources are available for treatment and research related to suicide among EMS providers.

Board Room – Airway Labs

Session: "Airway and Heart Lab #1 – A Hands On Approach"

Friday, January 20, 2017

Presenter(s): Jeff Schultz

8:30 am – 12:00 pm

Session Description: Jeff's lecture/hands on approach to ventilation and the respiratory system will involve pathophysiology of the respiratory system and cardiac system. Pig lungs and hearts will be used in this lab. This lab is for all EMS professionals at any level of training.

Session Objectives:

- Review basic anatomy and physiology of the adult airway.

Session: "Airway and Heart Lab #2" – A Hands On Approach

Friday, January 20, 2017

Presenter(s): Jeff Schultz

1:30 pm – 5:00 pm

Session Description: Jeff's lecture/hands on approach to ventilation and the respiratory system will involve pathophysiology of the respiratory system and cardiac system. Pig lungs and hearts will be used in this lab. This lab is for all EMS professionals at any level of training.

Session Objectives:

- Review basic anatomy and physiology of the adult airway.