

KEYNOTE PRESENTATIONS

Challenging Your Clinical Boundaries (Cat 2)

A.J. Heightman, MPA, EMT-P

Editor in Chief, Journal of Emergency Medical Services

Emergency Medical Services (EMS), in particular the technology and clinical parameters and protocols, are continually evolving, presenting challenges for EMT's, paramedics, EMS managers, and Medical Directors. In this fast-paced lecture, the past, present, and future of EMS clinical skills and technology will be examined and a set of benchmarks for attendees and their EMS agencies will be provided.

Evidence Based Approach to Tourniquet Use in the Pre-hospital Setting (Area 83, 04)

Brad L. Bennett, PhD, NREMT-P, FACSM, FAWM
Combat Casualty Care Research Coordinator
Naval Medical Center, Portsmouth, VA

The use of tourniquets has had a long and varied history in medicine and EMS. This presentation provides an evidence based approach for the current recommendations on the use of tourniquets in the military and civilian realms. Indications for placement and complications will be addressed.

Staying Alive and Out of Trouble - Situational Awareness (Area 89,05)

A.J. Heightman, MPA, EMT-P

EMS personnel get themselves caught in the middle of a number of dangerous situations. This lecture examines several actual cases and helps attendees understand situational awareness and how to modify their responses to be more cautious in the EMS environment.

GENERAL SESSIONS

*New Designer Drugs and Blackout Drinks (Area 76,05)

Christopher P. Holstege MD
Director, Division of Medical Toxicology
University of Virginia Health System

This presentation will focus on new designer drugs such as spice, methadone, salvia and the controversial blackout drinks which have been targeted by the Food and Drug Administration. The lecture will focus on clinical syndromes associated with the use of these agents, complications, and treatments.

*Rapid Sequence Induction Drugs and Pharmacology Update (Area 88,05)

Debra G. Perina, MD
Director, Prehospital Care Division
University of Virginia Health System

This presentation reviews the drugs commonly used for rapid sequence induction (RSI) as well as their pharmacology. The benefits and complications of the use of the drugs are examined, especially their physiologic effects on the critically ill patient. This lecture is designed to also help the attendee select the best medications to use for RSI during specific clinical situations.

*Sepsis: Infection Run Wild (Area 83,05)

Robert E. Knox RN, MSN, NREMT-P
Flight Nurse, Pegasus Flight Operations
University of Virginia Health System

Sepsis is a leading cause of mortality in the critically ill patient. This presentation will focus on the pathophysiology of sepsis, with an analysis of the body's response to overwhelming infection. The clinical manifestations of sepsis will be reviewed including significant hemodynamic changes. Early goal directed therapies such as antibiotic, vasopressor, and fluid management will be discussed.

#The Difficult Airway in the Neonate (Area 85,08)

Alix Paget-Brown, MD, FAAP
Assistant Professor, Division of Neonatology
University of Virginia Health System

This lecture focuses on the unique features of the neonatal airway. The presentation examines the anatomy of the neonatal airway and describes options for managing respiratory emergencies in these patients. Common neonatal airway malformations are studied with therapeutic measures reviewed for airway management.

* Critical Care #Neonatal Tracts

#The Golden Hours: Coordination of Care Surrounding the Delivery of the Extremely Low Birth Weight Infant (Area 91,08)

E. Jane Dwyer, RN, BSN Team Leader, Golden Hours Project
University of Virginia Children's Hospital

This lecture presents the concept of the "Golden Hours" as it relates to the care of the extremely low birth weight infant. Initial management of this specialty population with a focus on evidence based practice will be a central focus of this presentation. There will also be discussion related to outcomes in this patient population.

#Pediatric Shock: Recognizing the Sick Child (Area 86, 08)

Mark Marinello, MD
Assistant Professor, Pediatric Critical Care
VCU Medical Center, Richmond, VA

Shock states in the pediatric population are often unrecognized and under treated. This lecture details how to assess the pediatric patient for signs and symptoms of shock, as well as how to interpret the vital signs. Recommendations for goal directed therapy are given to improve patient outcomes.

Management of Airway and Esophageal Foreign Bodies in Children (85,03)

Eugene D. McGahren III, MD
Professor of Surgery and Pediatrics
University of Virginia Health System

Aspiration and ingestion of foreign bodies by the pediatric population is a common occurrence. This presentation will focus on the pediatric populations at greatest risk, life threatening complications, supportive care, and definitive treatment of the child with an airway or esophageal obstruction from a foreign body.

Human Kinematics and Injury Patterns in Motor Vehicle Crashes (Area 78, 02)

Mark R. Sochor, MD, MS, FACEP
Associate Professor, Department of Emergency Medicine
University of Virginia Health System

This presentation describes the science of human kinematics and examines its application during motor vehicle crashes. Using physics and physiology, patient injuries can be predicted based on specific features of an accident. Actual case scenarios will be used to emphasize teaching points.

Lessons in Trauma from Two Wars (Area 78, 04)

Jeffrey Young, MD
Director of University of Virginia Trauma Center
University of Virginia Health System

The military conflicts in Iraq and Afghanistan have resulted in unique surgical and medical challenges for medical personnel. This lecture presents new surgical techniques and new technologies that have been developed during these conflicts. The presentation will also focus on how many of these innovations will be introduced into civilian EMS and medicine.

Update on Cardiac Arrest Management (Area 72, 05)

William J. Brady, MD
Vice Chair, Department of Emergency Medicine
University of Virginia Health System

This presentation will utilize an evidence based approach to review the priorities of resuscitation during cardiac arrest. Treatment goals of both the early and late stages of a resuscitation event will be discussed and recommendations will be made based on recent scientific findings.

Child Abuse: Accident to Avoid or Incident to Report (Area 91, 08)

James A. Brady, NREMT-P
Captain, Training Division
Albemarle County Department of Fire Rescue

This presentation will examine the classifications of child abuse and the social factors that may increase the risk of abuse or neglect of a child. The presentation will identify triggers that can lead to abuse, as well as signs that a child is being abused or neglected. Injury patterns will be described and reporting requirements will also be discussed.

Litigation and Documentation: "A Healthcare Provider's Worst Nightmare" (Area 92, 07)

Nancy Young, RN, BSN
NICU Clinical Education & Transport Team Coordinator
Mary Washington Hospital, Fredericksburg, VA

This presentation will review the elements of a malpractice case and specifically how it relates to documentation. Examples of healthcare malpractice will be examined to illustrate specific teaching points. Legal features of electronic versus paper medical records will be compared and contrasted. Discussion will also focus on the most common documentation errors made by healthcare providers.

Stroke & STEMI Case Files 2011: Pre-hospital Integration within the Reperfusion Continuum (Area 73, 05)

David Burt, MD
Assistant Professor, Department of Emergency Medicine
University of Virginia Health System

This presentation will review the most recent literature discussing the science behind "Time is Brain & Time is Muscle". It will emphasize the vital role that the pre-hospital provider plays when recognizing and treating patients with acute reperfusion emergencies (Stroke and STEMI). In addition, new and emerging treatment of acute reperfusion emergencies will be discussed.

Spinal Mechanics and Function in Healthcare Workers (Area 92, 04)

Scott B. Wagner, DC, ATC, MUAC
Doctor of Chiropractic
Charlottesville Chiropractic & Sports Medicine

Healthcare workers frequently injure their backs due to the lifting requirements associated with their chosen careers. This presentation will focus on proper spinal mechanics and function, as well as common mistakes that are made which cause injury to the spine. Discussion will focus on reducing spinal injuries within the work place.

Pre-hospital Airway Options Today (Area 88, 09)

David Grimsley, NREMT-P, CCEMT-P, FP-C, AS
Flight Paramedic
Pegasus Flight Operations, University of Virginia Health System

Airway management is vital to providing optimal care to the critically ill or injured patient. This presentation will review the indications for airway intervention, options for definitive management, clinical "pearls" for success, and alternatives to manage a "failed" airway. There will also be a hands-on lab to allow participants to practice some of the skills discussed in this presentation. Each session is limited to 20 participants.

Managing the Child with Concussion (Area 87, 08)

John A. Jane, Jr., MD
Director, Pediatric Neurosurgery Program
University of Virginia Health System

Children frequently injure their heads and are susceptible to concussion. This presentation examines the frequency and common causes of pediatric concussion, as well as signs and symptoms. Discussion will focus on the assessment of the child with a concussion and proper management of the patient.

SCHEDULE

0700 - 0800	Registration
0800 - 0815	Opening Remarks, Bo Cofield, AVP
0815 - 0915	AJ Heitman
0925 - 1025	General Sessions
1025 - 1040	BREAK
1040 - 1140	General Sessions
1140 - 1230	LUNCH
1230 - 1330	Brad L. Bennett
1340 - 1440	General Sessions
1440 - 1500	BREAK
1500 - 1600	AJ Heitman
1600 - 1615	Wrap-up and Closing Remarks

CRITICAL RESPONSE '11

REGISTRATION AND FEES

Registration is limited to 400 participants. We are pleased to provide you with an interesting program, lunch, snacks, a commemorative T-shirt. for just \$40.00. Please register early. The deadline for registration is February 1, 2011.



Directions

From points north of Charlottesville,

Travel on 29 South toward Charlottesville.

Continue on 29 South Business past the exit for the 29/250 Bypass. Just past the signal at Wise Street, follow event signs to available parking.

From points east, south or west of Charlottesville,

Travel on Interstate 64 toward Charlottesville.

Exit onto Route 29 North at Exit 118B.

Take 3rd exit onto Leonard Sandridge Road.

Follow event signs to available parking.

CANCELLATIONS

Cancellations received after February 1, 2011 will result in forfeiture of all registration fees. Substitutions will be accepted although certificates may not be available.

The staff of Pegasus & NETS are proud to present Critical Response '11. This is the 19th annual conference hosted by Pegasus. We would like to thank our guest speakers who have so graciously volunteered their time and talents.

*Nursing and Pre-Hospital Continuing Education
Credit Hours have been applied for from the Air and
Surface Transport Nurses Association and the Virginia
Office of Emergency Services.*



UVA-Pegasus Medical Transport Network
200 Bowen Loop, Suite 100
Charlottesville, VA 22911
PH: 434.978.4426

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