



University of Virginia
Pegasus
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Charlottesville, VA 22911

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Pegasus
Presents
Critical Response '07
April 21, 2007
McLeod Hall
University of Virginia
Health System

Faculty

Mark Adams, RN, BSN

Clinician IV, Coronary Care Unit
University of Virginia Health System

Andrew M. Baxter, RN, BSN, NREMT-P

Fire Captain
Henrico County Division of Fire

Jeffrey Bergman, BA, Master Police Officer

Gang Unit Detective, Youth Services Division
Fairfax County Police Department

Robin M. Clark, NREMT-P, CCEMT-P

Emergency Transport Team
University of Virginia Health System

Christopher P. Holstege, MD

Director, Division of Medical Toxicology
University of Virginia Health System

Sarah Howard, RN, BSN, CCRN

Flight Nurse, Pegasus Flight Operations
University of Virginia Health System

J. Scott Just, MD

Department of Emergency Medicine
Augusta Medical Center

Robert E. Knox, RN, MSN, NREMT-P

Flight Nurse, Pegasus Flight Operations
University of Virginia Health System

Richard E. Lehman, MD, MSc

Fellow, Pediatric Critical Care
University of Virginia Health System

Dea Mahanes, RN, MSN, CCRN, CNRN, CCNS

APN I, Neurocritical Care Nurse Specialist
University of Virginia Health System

Ryan M. Meszaros, RN

Emergency Department Clinical Schedule Coordinator
University of Virginia Health System

Alix Paget-Brown, MD, FAAP

Clinical Instructor, Division of Neonatology
University of Virginia Health System

S. Rutherford Rose, PharmD, FAACT

Associate Professor of Emergency Medicine
Virginia Commonwealth University Medical Center

Scott R. Singel, RN, MSN, ACNP

Flight Nurse, Pegasus Flight Operations
University of Virginia Health System

J. Jeremy Thomas, MD

Clinical Instructor, Cardiovascular Emergencies Fellow
University of Virginia Health System

Raed Wahab, MD

Fellow, Pulmonary and Critical Care Medicine
University of Virginia Health System

The staff of Pegasus is proud to present *Critical Response '07*. This is the 15th spring conference hosted by Pegasus. We hope you take this opportunity to enjoy the educational offerings and join your fellow health care providers in this day of information sharing. We would like to thank our guest speakers who have so graciously volunteered their time and talents.

*McLeod Hall Auditorium has a high capacity air exchange system.
We recommend a light jacket or sweater for all who attend.*

General Sessions

Gang Awareness

Detective Jeffrey Bergman: This presentation will describe the history of gang related violence with a focus on emerging local gangs. Discussion will include frequently encountered injuries, signs, and graffiti associated with gang culture.

Medical Murderers

Christopher P. Holstege, MD: This presentation will utilize actual case presentations of medical murderers and the methods used to commit their crimes. Potential warning signs of criminal behavior by health care workers will be emphasized as well as various barriers that impede the identification of their crimes.

Spider Bites in Virginia

S. Rutherford Rose, PharmD: This presentation describes the unique features of spider bites. Envenomizations by spiders indigenous to Virginia such as the Black Widow and Brown Recluse will be emphasized. Identification, clinical effects, and appropriate treatment will be discussed.

Critical Care Session

This series of lectures is designed for participants seeking Critical Care knowledge for personal growth or recertification CE's for CCEMT-P, CCRN, CEN or CFRN.

*This lecture series is reserved for the first 50 ALS registrants

Shock - But Which Type

Robert E. Knox, RN, NREMT-P: This presentation will utilize a case-studies approach to understanding clinical states of shock. Discussion will review the pathophysiology of hemodynamics in the patient with various shock states. Changes in hemodynamic parameters as related to shock states will be identified, such as alterations seen in pulmonary artery pressure, central venous pressure, and pulmonary capillary wedge pressure.

Advanced Management of the Near Drowning Victim

Raed Wahab, MD: This presentation will describe the management of the near drowning victim in the critical care setting. Issues related to acute lung injury resulting from near drowning will be discussed, with emphasis on ventilator management. Other points of discussion will address infection issues, blood pressure management, and temperature regulation.

The Big Chill – Therapeutic Hypothermia in Critical Care

Mark P. Adams, RN, BSN: This presentation will explore the indications for therapeutic hypothermia in the critical care patient population. Modes of inducing and maintaining the hypothermic state will be discussed. Clinical indicators of expected metabolic changes to the patient will be described. The future application of this mode of treatment based on current research will be examined.

Breakout Sessions

Multiple Casualty Management Initial Actions

Andrew M. Baxter, RN, NREMT-P: This presentation will define a mass casualty incident and describe appropriate initial actions that should be implemented by emergency services personnel. Discussion will involve the use of the START triage system and the identification of tactical benchmarks.

Drowning & Near Drowning

Robin M. Clark, NREMT-P: This presentation will distinguish the differences between near-drowning and drowning. Discussion will involve how various components of the water such as temperature, and type (fresh vs. salt-water) affect the drowning scenario. Methods of extrication from the water, emphasizing crew safety and treatment strategies will be included.

Pediatric Emergencies

Sarah Howard, RN: This presentation will discuss how to recognize a stable vs. unstable pediatric patient and prioritize interventions in the hospital and pre-hospital setting. Specific attention will be paid to anatomical and physiological differences that predispose children to emergent situations. Indications for air and ground transport will be discussed.

Dangling at the End of Your Rope!

J. Scott Just, MD: This presentation reviews the mechanisms of injury associated with hanging and strangulation. The spectrum of injuries will include judicial hangings, suicide hangings, strangulation assault, and autoerotic strangulation. Actual case studies will be used to explore both basic life support and advanced life support management of incomplete hanging injuries.

Pediatric Sepsis

Richard E. Lehman, MD: This presentation will identify the criteria for sepsis in the pediatric patient population. The clinical aspects of sepsis will be discussed including signs and symptoms, differential diagnosis, and the pathogenesis of sepsis. Specific types of sepsis seen in the pediatric population will be addressed as well as current treatment strategies.

Code Gray: Emergency Management of Acute Ischemic and Hemorrhagic Stroke

Dea Mahanes, RN, CCRN: This presentation will focus on the differences between ischemic and hemorrhagic strokes. Discussion will involve rapid assessment of the stroke victim utilizing nationally recognized stroke scales. Emphasis will be placed on appropriate treatment and interventions for the patient with an acute stroke.

Maxillofacial Trauma and Ocular Emergencies

Ryan M. Meszaros, RN: This presentation reviews the anatomy and physiology of facial structures including the eyes. Discussion will focus on injury patterns related to facial trauma. Several advanced facial assessment methods will be identified and appropriate treatment modalities for maxillofacial and ocular injuries discussed.

Airway Abnormalities and Pre-hospital Management of the Neonate

Alix Paget-Brown, MD: This presentation will identify the unique differences of the neonate airway, compared to other pediatric age groups. Discussion will focus on respiratory diseases of the neonate as well as neonatal airway abnormalities. Emphasis will be placed on the identification of the neonate in respiratory distress and proper airway management and treatment.

Burn Management

Scott R. Singel, RN: This presentation will distinguish the differences between full-thickness and partial-thickness burns. Discussion will identify methods of calculating the extent of the burn. The pathophysiology of the burn process will be described. Particular emphasis will be placed on fluid replacement requirements, airway management, and issues related to smoke inhalation.

Pre-hospital Care of the Cardiac Arrest Patient

J. Jeremy Thomas, MD: This presentation discusses the initial care of the out-of-hospital cardiac arrest patient. The lecture identifies common causes of cardiac arrest in the pre-hospital setting. Medications used in the resuscitation and post-resuscitation phases, as well as invasive procedures will be emphasized.

Registration and Fees

Registration is limited to 300 participants. We are pleased to provide you with an interesting program, lunch, snacks, a commemorative T-shirt and portfolio for only \$35.00. Please register early.

The deadline for registration is April 13, 2007.

Directions

From I-64 take Rt. 29 North and follow the hospital signs to Jefferson Park Ave. (JPA) and then right onto Lee Street and park in either of the parking garages.

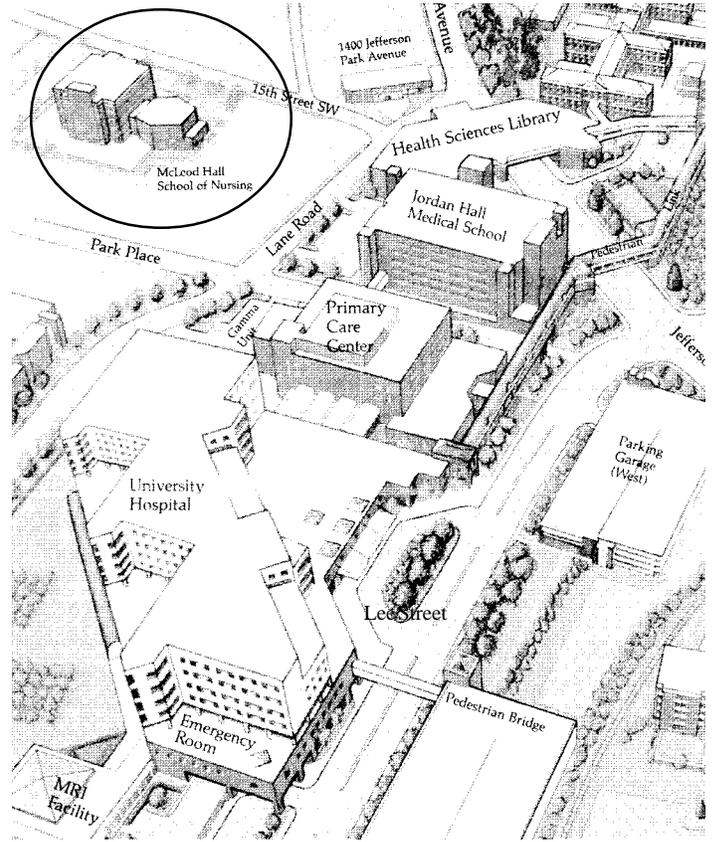
Coming South Rt. 29 follow the hospital signs to Jefferson Park Ave. (JPA) and then right onto Lee Street and park in either of the parking garages.

Parking

Free parking is available in the twin garages. The lot next to McLeod Hall has been reserved for the caterer's vehicles. McLeod Hall (shown on the map) is located one block behind the Primary Care Center.

Cancellations

Cancellations received after **April 13, 2007** will result in forfeiture of all registration fees. Substitutions will be accepted although certificates may not be available.



A registration confirmation will be returned to you.

For information call **434-978-4426**

Nursing and Pre-hospital Continuing Education Credits have been applied for from The Air and Surface Transport Nurses Association and Virginia Office of Emergency Services

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E-mail address: _____

Make sure to **PRINT LEGIBLY** and be case specific.

Name: _____

Mailing Address: _____

City: _____ State: _____ Zip: _____

EMS or Hospital Affiliation: _____ Name tag: _____

Home Phone:(_____) _____ Required for Credit Card Work Phone:(_____) _____

Check all that apply EMT ___ EMT-EN ___ EMT-C ___ EMT-I ___ EMT-P ___ LPN ___ RN ___

Send registration information and check to:

**Pegasus
200 Bowen Loop Suite 100
Charlottesville, VA 22911**

Make checks payable to:

THE UNIVERSITY of VIRGINIA-PEGASUS

Credit card registration may be faxed to 434-924-8715

Credit Card # _____

Visa ___ MC ___ AmExp ___ Disc ___ **ExpDate** ___ / ___

(Name and Address as they appear on credit card. *Required*)

Name _____

Address _____

City _____ State _____ Zip _____

Signature _____

Schedule

07:15 **Registration**

08:15 **Medical Murderers**

09:15 **Breakout Session** or **Critical Care Tract**
(pick a topic from the next page)

10:15 **Refreshments**

10:30 **Breakout Session** or **Critical Care Tract**
(pick a topic from the next page)

11:30 **Lunch: Big Jim's Bar-B-Que**

12:45 **Gang Awareness**

13:45 **Breakout Session** or **Critical Care Tract**
(pick a topic from the next page)

14:45 **Refreshments**

15:00 **Assessment of Spider Bites in Virginia**

16:00 **Wrap up and Closing Remarks**

(Be sure to complete the opposite side of the registration form.)

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Name : _____ **T-Shirt size** S M L XL XXL XXXL This does not reserve a shirt for you, it only helps us estimate our ordering needs.

The split session (Critical Care Tract) is limited to 50 attendees. After the first 50 paid ALS registrants fill the Critical Care Tract, all others will be placed into the general session. Every effort will be made to assign you to the tract you have selected. **Critical Care tract need not select break-out sessions.**

Critical Care Tract

General Session (rank your choices from 1 to 5 for the 3 break-out sessions)

- | | | |
|--|---|---|
| <input type="checkbox"/> Multiple Casualty | <input type="checkbox"/> Dangling at the End of Your Rope | <input type="checkbox"/> Maxillofacial Trauma |
| <input type="checkbox"/> Drowning | <input type="checkbox"/> Pediatric Sepsis | <input type="checkbox"/> Airway Abnormalities |
| <input type="checkbox"/> Pediatric Emergencies | <input type="checkbox"/> Code Gray- Stroke | <input type="checkbox"/> Cardiac Arrest |
| | <input type="checkbox"/> Burns | |

Virginia Blood Services will be on hand to accommodate attendees who wish to donate blood

Yes, I plan on donating blood. I want to help beat last year's total.