UAB CRRT ACADEMY 2012

Presented by
UAB Hospital and UAB School of Medicine
Division of Continuing Medical Education

Wednesday, September 19th & Thursday, September 20th
UAB Hospital West Pavilion Conference Center
And
UAB Department of Resuscitation
619 19th Street South
Birmingham, AL 35249
Due to its ability to provide effective volume and metabolic control, Continuous Renal Replacement Therapy (CRRT), has recently emerged as the dialysis technique of choice for critically ill patients with acute kidney injury (AKI). Obstacles to the widespread use of CRRT include limited understanding of its application and lack of familiarity with its technical features. In this symposium we review the impact of AKI in critical illness. We will discuss the fundamentals of CRRT and describe in-depth how to implement a hassle-free protocol from the perspective of the physician, pharmacist, and nurse.

This symposium is open to nephrology and pulmonary/critical care fellows, clinicians, nurses, pharmacists, and anyone interested in obtaining a practical understanding of CRRT.

**About CRRT**

Reservations are available at Residence Inn by Marriott, Birmingham Downtown @ UAB. There is a special rate of $129 for studio guestroom reservations for conference participants. Be sure to mention that you will be attending the UAB CRRT ACADEMY 2012 to receive this discount rate. Call at 205-731-9595 locally, 1-800-331-3131 or online at: [http://www.marriott.com/hotels/travel/bhmri?gc=crrcrra&app=reservation](http://www.marriott.com/hotels/travel/bhmri?gc=crrcrra&app=reservation)

**Accommodations**

Please reserve your rooms by **August 20, 2012** for this special rate.

Please note that if you are a Residence Inn guest and conference attendee, members of our conference committee will meet you in the hotel lobby at 7 a.m. on Wednesday, September 19 to escort you to UAB Hospital. Departure time will be promptly at 7:15 a.m.
Agenda - Day 1— Wednesday, September 19th

Program Objectives

1. Review the definition, epidemiology, and pathogenesis of acute kidney injury (AKI) in the critical care setting and the importance of dialysis as a therapeutic option.
2. Describe the fundamental transport mechanisms for solute removal.
3. Contrast and compare the advantages and disadvantages of various dialysis options for AKI, including intermittent hemodialysis (IHD), peritoneal dialysis (PD), sustained low efficiency dialysis (SLED), and continuous renal replacement therapy (CRRT).
4. Identify and defend the technical options for CRRT, including modality, anticoagulation, solutions, vascular access, and the delivery of dialysis dose.
5. Analyze and compare CRRT outcome studies.
6. Evaluate nursing, pharmacy, and administrative issues in developing, implementing, and maintaining a CRRT program.
7. Engage in a discussion of the ethics of CRRT and the termination of support.
8. Describe challenges inherent in the use of CRRT in special populations including liver failure, CHF, and pediatrics.
10. Apply critical thinking and clinical skills to case scenarios and simulations.

Morning Plenary

Fundamentals of CRRT

7:00 a.m.—7:45 a.m. Registration & Breakfast

7:45 a.m.—8:00 a.m. Welcome and Announcements

8:00 a.m.—8:30 a.m. AKI and Patient Selection for CRRT - Jorge Cerda, MD

8:30 a.m.—9:20 a.m. Dialysis Options for AKI - David James, DNP, RN, CCRN, CCNS

9:30 a.m.—10:00 a.m. CRRT: The Technical Questions - 1. Which Modality? Ashita Tolwani, MD, MS

10:00 a.m.—10:25 a.m. BREAK

10:25 a.m.—11:10 a.m. CRRT: The Technical Questions – 2. Which Anticoagulant? Ashita Tolwani, MD, MS

11:10 a.m.—11:25 a.m. CRRT: The Technical Questions – 3. Which Solutions? Ashita Tolwani, MD, MS

11:25 a.m.—11:40 a.m. CRRT: The Technical Questions – 4. Which Dose? Ashita Tolwani, MD, MS

11:40 a.m.—12:00 p.m. CRRT: The Technical Questions – 5. Access/Membrane/Circuit Luis Juncos, MD
**Agenda - Day 1 — Wednesday, September 19th**

12:00 p.m.—12:30 p.m.  CRRT Outcome Studies: Survival and Renal Recovery  
  Luis Juncos, MD

12:30 p.m.—1:30 p.m.  LUNCH (provided)

**Starting a CRRT Program**

1:30 p.m.—2:15 p.m.  Nursing Issues - David H. James, DNP, RN, CCRN, CCNS

2:15 p.m.—3:00 p.m.  Pharmacy Issues - Rajesh Speer, Pharm D

3:00 p.m.—3:15 p.m.  BREAK

3:15 p.m.—4:00 p.m.  Administrative & Billing Issues - Jorge Cerda, MD

4:00 p.m.—4:45 p.m.  CRRT Devices and Industry—Cathy DiMuzio, Director of Therapy  
  Development—Gambro Acute Care, and Jeff Burbank, CEO—NxStage  
  (In-service—no CE credit)

4:45 p.m.—5:00 p.m.  Question/Answer Session—Evaluations

6:30 p.m.—9:00 p.m.  Networking Reception — Marriott Residence Inn

**Agenda - Day 2 — Thursday, September 20th**

7:00 a.m.—7:15 a.m.  Committee Members to meet conference attendees at Marriott Residence  
  Inn Escort to UAB West Pavilion Conference Center Room E

7:15 a.m.—7:45 a.m.  Breakfast/Registration

7:45 a.m.—8:00 a.m.  Welcome/Announcements

**Workshops: Break-Out Sessions I, II**

**General Session**

7:30 a.m.—8:00 a.m.  Pre-Test Survey and Preparation for Simulation

8:00 a.m.—12:30 p.m.  The “hands-on” workshops will use a case-based approach to provide  
  training on the use of CRRT and troubleshooting.  
  The workshops are divided into two break-out sessions:

  I. Nursing                II. Physician and Pharmacy

  Each break-out session is divided into 4 sections. Each section will be  
  35 minutes in length.  
  Groups of 5 participants will rotate between each section in order to  
  maximize the learning opportunity for each participant.
Agenda - Day 2—Thursday, September 20th

Workshops: Break-Out Sessions I, II

General Session (Nursing)
8:00 a.m.—8:35 a.m. Fluid and Electrolytes—David H. James, MSN, RN, CCRN, CCNS
8:45 a.m.—12:30 p.m. (includes 5-minute break between sessions)

I. Nursing—Speakers: Nursing Faculty
   Implementation of Physician CRRT Orders and Setting up the CRRT Device Simulation
   Documentation, Trouble-Shooting, Disconnection of the CRRT Device Simulation
   CRRT Labs 101 Simulation/Case Scenarios
   CRRT: Putting it all Together Simulation

General Session (Physician and Pharmacy)
8:00 a.m.—8:35 a.m. Patient Selection for CRRT: Case Scenarios—Jorge Cerda, MD
8:45 a.m.—12:30 p.m. (includes 5-minute break between sessions)

II. Physician and Pharmacy
   CRRT Prescription and Order Sets
      Ruth Campbell, MD
   CRRT Case Simulation: Anticoagulation
      Ashita Tolwani, MD
   Trouble Shooting Electrolyte and Acid-Base Issues: Case Scenarios
      Keith Wille, MD/Rajesh Speer, Pharm D
   CRRT Case Simulation: Dose
      Luis Juncos, MD, PhD

12:30 p.m.—1:30 p.m. LUNCH and Pediatric Breakout Session—David Askenazi MD, MsPH
1:45 p.m.—2:00 p.m. Pre-Test Survey for Palliative Care
2:00 p.m.—3:00 p.m. Ethics and Palliative Care Considerations in CRRT—Rodney Tucker, MD
3:00 p.m.—5:00 p.m. Interactive Simulation: Real-time, case-based scenario from consent to delivery of therapy—CRRT Academy Staff
Faculty

Ashita Tolwani, MD, Professor and
CRRT Course Director - atolwani@uab.edu
GAMBRO Expert Panel

Cathy DiMuzio (Nursing Faculty)
Director, Therapy Development
GAMBRO—Acute Care Division

David Askenazi, MD, MsPH
Assistant Professor
Pediatrics—UAB Nephrology

David H. James, MSN, RN, CCRN, CCNS (Nursing Faculty)
Advanced Nursing Coordinator
UAB Hospital

Donna Carlton-Casey, BSN, RN, CNN (Nursing Faculty)
Research RN
UAB Hospital/DaVita Healthcare

Jorge Cerda, MD
Clinical Associate Professor Medicine
Albany Medical College
Albany, New York
GAMBRO Expert Panel

Katrina Eggleston, BSN, RN (Nursing Faculty)
UAB Hospital/DaVita Healthcare

Keith Wille, MD
Associate Professor
Pulmonary/Allergy/Critical Care
UAB Hospital

Luis Juncos, MD PhD
John Bowen Professor of Medicine
Director of Nephrology
University of Mississippi

Margot Andison, Ph.D., BSN, RN, CCRN (Nursing Faculty)
UAB Hospital—MICU

Rajesh Speer, Pharm D
UB Pharmacy

Rebecca Bryant, RN (Nursing Faculty)
Divisional Acute Director
DaVita, INC

Rodney Tucker, MD
Assistant Professor of Medicine
UAB Gerontology/Geriatrics/Palliative Care
Associate Quality Officer—UAB Health System

Ruth Campbell, MD
Associate Professor
Medical University of South Carolina

Technical Advisors

J. Dale Davis, RN, BSN
Department of Resuscitation
UAB Hospital

Jeff Burbank
CEO NxStage

Lisa Bimbo, BSN, RN, CNN
Manager—Inpatient Dialysis Unit
UAB Hospital/DaVita Healthcare

Krystal Aaron, Lab Manager

Teri Shell, RN—UAB Hospital/DaVita Healthcare

Administrative Coordinators:

Daisy Sparks, Constance Umfress and
Kamiesha Borden — Medical Nursing Division
Registration Information

Please mark the appropriate bubble.

Registration fees received by August 19, 2012
- $250 for MDs and Pharmacists
- $200 for nurses
- $125 for fellows and students

Registration fees received after August 19, 2012
- $300 for MDs and Pharmacists
- $250 for nurses
- $175 for fellows and students

Group discount of $25 off for registrations of three or more from the same institution. Registrations must be submitted together. UAB participants will receive the same discount rate. Dress is business casual.

Please complete the registration form (Please print or type). Return to UAB Hospital Medical Nursing/CE Offering, 1813 6th Avenue South, Medical Education Building Suite 508, Birmingham, AL 35249-6908 or fax to (205) 975-6802. (Attention: Daisy Sparks). Confirmation will be emailed or faxed to those who complete the registration form no later than August 31st. Payment must accompany all registrations. For questions, please call (205) 934-5227.

Please print clearly

Last name: _____________________________________ First name: ___________________________ MI:_________
E-mail address: ________________________________ Position title: _______________________________________
Pharmacy license # ____________________________ (State __________)
Nursing license # ______________________________(State___________) Fax Number: ______________________

Important: Alabama Nurses please bring your nursing license to conference for contact hours - you must scan your license in a card reader.

Home Address: ________________________________________ Home Phone: ______________________________
City: ____________________________________ State: _________________________________ Zip code: __________
Employer Name: ________________________________________________ Business Phone: ___________________
Employer Address: ______________________________________________ City: __________________ State: ______
Zip code: ____________________________

Payment method (check one): Checks/Money Orders (Make payable to UAB Hospital c/o CRRT Academy 2012).
☐ Visa ☐ MasterCard ☐ Discover Card ☐ Personal Check/Money ☐ Order Institutional Check

Card Holder: ___________________________________________ Card No: _________________________________
Expiration date: _________________________ Signature: ____________________________________________

Registration/Cancellation Policy: Cancellation received no later than Monday, September 3rd will receive a refund minus a $25 administrative fee. Cancellations received after September 3rd, 2012 will not receive a refund. Tuition for this program can be transferred to another person without penalty. Registration cannot be shared among participants. Registration at the door is pending available space and is payable by cash, money order, or institutional checks only—no personal checks please.
Continuous renal replacement therapy (CRRT) has recently emerged as the dialysis technique of choice for critically ill patients with acute kidney injury (AKI) due to its ability to provide effective volume and metabolic control. Obstacles to the widespread use of CRRT include limited understanding of its application and lack of familiarity with its technical features. In this symposium we review the impact of AKI in critical illness. We also discuss the fundamental of CRRT and describe in-depth how to implement a hassle-free protocol from the perspective of the physician, pharmacist, and nurse.

**Contact hour information**

The University of Alabama School of Medicine is accredited by the Accreditation Council for Continuing Medical Education (ACCME) to provide continuing medical education for physicians. The University of Alabama School of Medicine designates this educational activity for a maximum of 12.5 AMA PRA Category 1 Credits.™ Physicians should only claim credit commensurate with the extent of their participation in the activity. The University of Alabama at Birmingham is an equal opportunity/affirmative action institution.

UAB Hospital's Nursing Continuing Education Department is an approved provider of continuing nursing education by the Alabama Board of Nursing (Provider Number: ABNP0055, Expiration date: June 4, 2013).

UAB Hospital's Nursing Continuing Education Department is an approved provider of continuing nursing education by the Alabama State Nurses Association, and accredited approver of continuing nursing education by the American Nurses Credentialing Center's Commission on Accreditation (Provider Number: 5-69, Expiration date: December 10, 2013).

**Day One - September 19**
- ABN approved contact hours: 7.5
- ABN Pharmacology hours: 1.5
- ANCC approved contact hours: 6.25

**Day Two - September 20**
- ABN approved contact hours: 7.5
- ABN Pharmacology hours: 1.65
- ANCC approved contact hours: 7.75

Credit will be given separately for each day. Partial credit will not be given. You must attend the entire day to obtain credit. Pharmacology hours will apply: 1.5 contact hours on day one; 1.65 on day 2 for Physician/Pharmacy workshops.

**The Samford University McWhorter School of Pharmacy** is accredited by the Accreditation Council for Pharmacy Education.

**If you have a disability and require assistance to facilitate your participation in this conference, please indicate your needs in writing and send in with your registration. If you require vegetarian meals, please indicate your needs in writing with your registration.**

Supported by GAMBRO Renal Products, DaVita Total Renal Care, Inc., NxStage, Cytopherx and O'Brien Center