February 25 - 28, 2009
Hotel del Coronado
San Diego, California

CRRT 2009

14th Annual International Conference on Continuous Renal Replacement Therapies

Endorsed by the International Society of Nephrology and Acute Kidney Injury Network

Sponsored by
UNIVERSITY OF CALIFORNIA, SAN DIEGO
SCHOOL OF MEDICINE

crrtonline.com

Abstract Deadline: Dec 12, 2008
Dear Colleague,

Supportive therapies for the management of critically ill patients continue to evolve as we gain new knowledge of the pathophysiology of multiorgan failure. Continuous renal replacement therapies continue to define a platform to launch novel methods of extracorporeal support. Applications of these techniques are now coupled with new biomarkers serving as diagnostics and theranostics to inform the optimal timing of intervention. As we learn more about critical illness, it is evident that the availability of these versatile techniques offers unprecedented opportunities to influence the outcome of organ failure. The 14th international conference on CRRT highlights the recent advances in our understanding of pathophysiology of critical illness, emerging strategies in the management of sepsis, multi-organ failure, acute kidney injury, development and use of biomarkers, technical advances in CRRT and the appropriate utilization of these techniques. As in past years, we have invited internationally recognized experts to discuss several topics that reflect contemporary issues faced by the clinician treating patients in the ICU. A review of the pathophysiology of organ failure is complemented by information on emerging biomarkers. Contemporary topics are highlighted throughout the conference and include a discussion on fluid management and its effects on organ function. Pathophysiology of kidney injury and its consequences, dose of dialysis in, and modulation with extracorporeal techniques and innovations in cardiac and hepatic support are other topics discussed.

This year's program also presents controversies and new research to optimize the dose for dialysis, fluid management and extracorporeal support for critically ill patients. A mix of invited lectures, workshops, poster sessions and panel discussions are planned to continue the tradition of multidisciplinary interactions.

Dedicated sessions for nursing issues are offered and time has been allocated for networking. A key goal of the conference is to equip participants with the most up to date and practical knowledge for patient care. This year's program provides two additional opportunities designed for trainees and new entrants in this field. A generous grant will make it possible for fellows in training to be awarded scholarships to present their research and participate in the meeting. We have also introduced a new pre-conference day covering the Fundamentals of CRRT™ to introduce the key principles of CRRT. Additionally, we have further expanded the “hands-on” workshops designed to provide detailed instruction on the use of specific equipment for extracorporeal support. New workshops on hemodynamic monitoring and ventilator management and team approaches for CRRT programs have been added. More time has been allocated for networking to continue the tradition of multidisciplinary interactions, which are a highlight of this conference.

As always, we hope to provide the right environment to foster learning and mutually beneficial communications and collaborations. We hope that you will join us to share your knowledge and experience as it is through multidisciplinary interactions that we will gain a better understanding of critical illness and it is only through our collective efforts that we will improve the lives of our patients.

We look forward to welcoming you to San Diego for the fourteenth time.

Ravindra L Mehta, MD
Chairman, Organizing Committee
FOURTEENTH INTERNATIONAL CONFERENCE ON
CONTINUOUS RENAL REPLACEMENT THERAPIES
CRRT 2009

Endorsed by
The International Society of Nephrology
Acute Kidney Injury Network

ORGANIZING COMMITTEE

USA
Steven R. Alexander, MD
Geraldine Biddle, RN, CNN, CPHQ
Joseph V. Bonventre, MD, PhD
Timothy E. Bunchman, MD
Jorge Cerda, MD, FACP, FASN
William R. Clark, MD
Stuart Goldstein, MD
Thomas A. Golper, MD
Andre A. Kaplan, MD
John Kellum, MD
William L. Macias, MD, PhD
Bruce Mueller, PharmD, FCCP
Emil P. Paganini, MD, FACP, FRCP
Maria Pascual, RN, BSN, MPH
David M. Ward, MD, FRCP

SOUTH AMERICA
Emmanuel Burdmann, MD, PhD

EUROPE
Bernard Jean-Marie Canaud, MD
Andrew Davenport, MD, FRCP
Patrick Honore, MD
Claudio Ronco, MD
Miet Schetz, MD, PhD
Raymond Vanholder, MD, PhD

JAPAN
Tadao Akizawa, MD
Hiroyuki Hirasawa, MD, PhD

CHINA
Lei-shi Li, MD, FHKCP

AUSTRALIA
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Rinaldo Bellomo, MD, FRACCP

INDIA
Vijay Kher, MD, DM, FAMS, FISN, FIMSA
Rajasekara Chakravarthi, MD, DNB

CANADA
Noel Gibney, MD
Martine Leblanc, MD, FRCPC
Sheldon Tobe, MD

IMPORTANT CONFERENCE DATES

Abstract Submission (see page 14) Currently Open
Online Registration Begins November 1, 2008
Deadline for Receipt of Abstracts (see page 14) December 12, 2008
Notification of Abstract Acceptance January 5, 2009
Postmark/Online Deadline for Early Bird Registration January 16, 2009
Hotel Reservation Deadline February 3, 2009
On-site Registration Fees Begin February 21 - 28, 2009
Poster Mounting and Viewing February 25 & 26, 2009
Conference and Standard Workshop Sessions February 26 - 28, 2009
Elective Hands-on Workshops February 25 and 28, 2009

Wednesday - HO1, HO2, HO3 & HO4 (see page 4) February 25, 2009
Saturday - HO5, HO6, HO7 & HO8 (see page 4) February 28, 2009
PARTICIPATING FACULTY (Partial List)

Steven R. Alexander, MD  
Stanford University Medical Center  
Stanford, CA

Linda Awdishu, BSc, Pharm D  
UCSD Medical Center  
San Diego, CA

Ian Baldwin, RN, MN, PhD, ACCCN  
Austin Hospital, RMIT University  
Melbourne, VIC, AUSTRALIA

Rinaldo Bellomo, MD  
Austin & Repatriation Medical Centre  
Heidelberg, AUSTRALIA

Oliver Joannes-Boyau, MD  
University Hospital of Bordeaux  
Pessac, FRANCE

Patrick D. Brophy, MD, FAAP, FRCPC  
University of Iowa  
Iowa City, IA

Timothy E. Bunchman, MD  
Helen DeVos Children's Hospital  
Grand Rapids, MI

Emmanuel Burdmann, MD, PhD  
Sao Jose do Rio Preto Medical School  
Sao Jose do Rio Preto, SP, BRAZIL

Jorge Cerda, MD, FACP  
Capital District Renal Physicians  
Albany, NY

Lakhmir Chawla, MD  
George Washington Univ. Medical Center  
Washington DC

Rajsekara Chakravarthi, MD, DNB  
Care Hospitals, Institute of Medical Sciences  
Hyderabad, AP, INDIA

Kevin K. Chung, MD  
US Army Institute of Surgical Research  
Fort Sam Houston, TX

William R. Clark, MD  
Gambro US  
Lakewood, CO

Dinna Cruz, MD  
San Bortolo Hospital  
Vicenza, ITALY

Helen Currier, BSN, RN, CNN  
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Houston, TX

Andrew Davenport, MD, MA  
Royal Free Hospital  
London, ENGLAND (UK)

Dan Davis, MD  
UCSD Medical Center  
San Diego, CA

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Emory University School of Medicine  
Children's Healthcare of Atlanta at Egleston  
Atlanta, GA

Noel Gibney, MD  
University of Alberta  
Edmonton, Alberta, CANADA

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Thomas A. Golper, MD  
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Nashville, TN

Patti Graham, RN, MSN, CNS, CCRN  
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San Diego, CA

Tarek Hassanein, MD  
University of California, San Diego  
San Diego, CA

Hiroyuki Hirataasa, MD  
Chiba Univ. Graduate School of Medicine  
Chiba, JAPAN

Patrick M. Honoré, MD  
St-Pierre Para University Hospital  
Leuven, BELGIUM

Can Ince, PhD  
University of Amsterdam  
Amsterdam, THE NETHERLANDS

John Kellum, MD, FCCM, FACP  
University of Pittsburgh School of Medicine  
Pittsburgh, PA

Michael Kraus, MD  
Indiana University  
Indianapolis, IN

Norbert Lameire , MD  
University Hospital  
Ghent, BELGIUM

Eileen Lischer, RN, BSN, MA  
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San Diego, CA

William Macias, MD, PhD  
Eli Lilly and Company  
Indianapolis, IN

Alan Maisel, MD  
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San Diego, CA

Mark Marshall, MBChB, FRACP  
University of Auckland  
Auckland, NEW ZEALAND

Ravindra L. Mehta, MD, FACP  
University of California, San Diego  
School of Medicine  
San Diego, CA

Bruce Molitoris, MD  
Indiana University School of Medicine  
Indianapolis, IN

Bruce A. Mueller, PharmD, FCCP  
University of Michigan  
Ann Arbor, MI

Michael (Monty) Mythen, MD  
University College London  
UCL Institute of Child Health  
London, ENGLAND (UK)

Emil P. Paganini, MD  
Cleveland Clinic Foundation  
Cleveland, OH

Paul Palevsky, MD  
VA Pittsburgh Healthcare System  
Pittsburgh, PA

Anthony M. Roche, MB ChB  
Duke University  
Durham, NC

Claudio Ronco, MD  
Department of Nephrology  
Vicenza, ITALY

Miet Schetz, MD, PhD  
University Hospital Gasthuisberg  
Leuven, BELGIUM

Richard Solomon, MD  
University of Vermont  
Burlington, VT

Boyd Taylor Thompson, MD  
Jamaica Plain, MA

Ashita Tolwani, MD  
University of Alabama at Birmingham  
Birmingham, AL

Sushrut S. Waikar, MD  
Harvard University  
Boston, MA

Li Wang, MD  
Sichuan Academy of Medical Sciences &  
Sichuan Provincial People's Hospital  
Chengdu, CHINA

David Ward, MD, FRCP  
UCSD Medical Center  
San Diego, CA

Cristof Westenfelder, MD  
University Of Utah  
Salt Lake City, UT

Michael Zappitelli, MD, MSc  
Montreal, CANADA
Visit the conference website for the most current program information, abstract submission, online registration and online hotel reservations. www.crrtonline.com

CONFERENCE DATES AND LOCATION
The inclusive dates for all scientific sessions of the FOURTEENTH INTERNATIONAL CONFERENCE ON RENAL REPLACEMENT THERAPIES (CRRT) are February 25 - 28, 2009. There will be elective workshops held on Wednesday, February 25 & Saturday, February 28, 2009. The Conference will be held at the Hotel del Coronado, 1500 Orange Ave., Coronado, California. Tel: (619) 435-6611, Fax: (619) 522-8262. Online Reservations are available directly with the hotel. Please use the Hotel Reservations link on the conference website for reservations and more information about the hotel. Group reservations of 5 or more hotel rooms need to contact the conference administration directly at 858-272-1018.

REGISTRATION INFORMATION
Please visit our website to register, or use the form on page 15.
All participants must register and pay the appropriate fee. Conference registrants will have access to all scientific sessions and poster sessions. The registration fee includes general sessions, conference workshops, CME accreditation, conference syllabus, continental breakfasts, coffee breaks, receptions on Wednesday and Thursday and lunches on Thursday and Friday. Registration will begin on the evening of February 24, 2009. Poster Viewing will begin on Wednesday evening February 25, 2009. For additional registration times see the program.

REGISTRATION FEES

<table>
<thead>
<tr>
<th></th>
<th>Early Bird</th>
<th>Pre-Registration</th>
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<tr>
<td></td>
<td>On or before</td>
<td>January 17 thru</td>
<td>Feb. 21 thru</td>
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<tr>
<td>Physicians/Other (MD, PhD, etc.)</td>
<td>January 16, 2009</td>
<td>Feb. 20, 2009</td>
<td>Feb. 28, 2009</td>
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<tr>
<td>On-Site</td>
<td>$ 645</td>
<td>$ 710</td>
<td>$ 775</td>
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<tr>
<td>Nurses/Dieticians/Pharmacists/Residents*/Fellows*</td>
<td>$ 435</td>
<td>$ 505</td>
<td>$ 565</td>
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<td>*with letter of verification from department head</td>
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<tr>
<td>Industry**</td>
<td>$ 435</td>
<td>$ 505</td>
<td>$ 565</td>
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<td>**must be employed by CRRT Industry Partner</td>
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Conference Registration Fee Includes: Access to all general sessions (Thursday-Saturday), workshop lectures (Thursday-Friday), Exhibit Area, Welcome Reception & Poster Session (Wednesday), Exhibit Reception (Thursday), two lunches (Thursday/Friday) and all conference breaks. Conference Registration Fee does not include Elective Hands-On Workshops on Wednesday or Saturday. (see page 4).

GUEST FEE $150
Includes: Access to Exhibit Area, Welcome Reception (Wednesday), Exhibit Reception (Thursday) and two Lunches (Thursday & Friday). Guests are not admitted to the General Sessions or Workshops.

General Information continues on following page
ELECTIVE HANDS-ON WORKSHOPS
A variety of elective “hands-on” workshops are available and will have limited enrollment to maximize opportunity for each participant. Please see individual descriptions below. Workshops will take place on Wednesday, February 25 & Saturday, February 28, 2009.

Wednesday - Full Day Concurrent Hands-On Workshops $150
(select one - limited enrollment)
Wednesday, February 25  8:00am-5:15pm (includes lunch, AM & PM breaks)

HO1: Gambro Workshop - Mimic the Native Kidney with Prismaflex
This workshop will offer the participants the opportunity to learn about Gambro’s Prismaflex® System and will include a combination of lecture and hands-on use of the Prismaflex System, hemofilter sets as well as PrismaSATE® dialysate and PrismaSOL® replacement solution. Review the physician’s order set, prescription decisions regarding hemofilter selection, anticoagulation approaches, solution choices and preferred patient/system management. The session will provide you with the skills to optimally manage the CRRT patient treated with Gambro’s Prismaflex System.

HO2: Fundamentals of CRRT
This workshop offers an introduction to CRRT techniques and is developed to provide a core set of information on the principles and practice of CRRT. The operating characteristics of CRRT techniques for solute and fluid management, drug management will be discussed along with the potential applications of these techniques. Requirements for developing a successful CRRT program and selecting machines will also be described.

Wednesday - Half Day Hands-On Workshops $90 each
(limited enrollment - one or both may be attended, run concurrently with H01 and H02)
Wednesday, February 25 (includes lunch & break)

HO3: Baxter Workshop - Aquarius - A Comprehensive System for Optimal Care - 8:00am-12:30pm
An in-depth workshop covering both the Aquarius System for CRRT & TPE and Baxter's AdvanCCE nurse education program. Learn how the innovative and easy-to-use Aquarius System benefits you and your patients and interact with our newly released, customer-focused AdvanCCE nurse education program offering foundational education, refresher training and just-in-time support tools.

HO4: How to Deliver CRRT to Pediatric Patients, from Neonates to Adolescents - 1:30pm-5:15pm
This workshop will focus upon the practical aspects of care including clinical program development, discussion of various models of ICU and Nephrology medical nursing care and hands on machine setup and operation.

Saturday - Post Conference Hands-On Workshops $90
(select one - limited enrollment)
Saturday, February 28  2:00pm-5:00pm (includes 1:00pm lunch & PM break )

HO5: Fresenius Workshop “SLED, CRRT and IHD with the 2008K”
Learn how to us the Fresenius system for SLED, CRRT and IHD for acute renal failure.

HO6: Principles of Resuscitation Using Sim-Man
An interactive hands-on workshop covering the general approach to resuscitation and emerging concepts in resuscitation science. Case studies will be used to illustrate various principles and management of common scenarios. Skills performed on SIM_MAN a high-fidelity human patient simulator.

HO7: Hemodynamic Monitoring and Ventilator Management
Interactive discussions and demonstrations of the principles and strategies for hemodynamic and microcirculatory monitoring and ventilator management in critically ill patients

HO8: Essentials for Developing, Nurturing and Growing a CRRT Program
Team Building and Management, Financial Aspects, Dealing with Administration and Staffing Issues, Tool Kits for Monitoring Effectiveness of the Program and CQI Issues, Expanding the Program.
SOCIAL ACTIVITIES

Poster Review and Reception
Wednesday, February 25, 2009    6:00pm-7:30pm
All attendees are invited to review the CRRT poster presentations including fellows in training and meet the presenters and faculty. This is a great opportunity to pick-up credentials, register on-site, organize your workshops and prepare for the upcoming CRRT meeting.

Exhibit Reception and Poster Session
Thursday, February 26, 2009 6:00pm-7:30pm
Meet and interact with the CRRT poster presenters while you review the latest in equipment and products in the exhibit area. This is a great opportunity to network and meet your colleagues.

TOURS

San Diego Trolley Car Tour
Adult $32    Child $14
Thursday, February 26, 2009 9:30am-11:30am
Come along with San Diego's best tour conductors as they combine colorful anecdotes, humorous stories and well researched historical information into a fast moving two hour narrative that's both entertaining and educational. Join us as we turn back the pages of history and relive San Diego's early days as it became the Birthplace of California. In Old Town San Diego (sometimes called the "Jamestown of the Pacific"), you will experience early Americana with its distinctive "West Coast Style" Spanish flavor. See and Visit... Old Town State Park, Seaport Village, Horton Plaza, Coronado Island, San Diego Zoo, Gaslamp Quarter, San Diego Museum of Art, Natural History Museum, Aerospace Museum, Lindbergh Field, Naval Station San Diego, Balboa Park, El Prado, Heritage Park, Star of India, Whaley House... and much, much more!

Hotel Del Coronado Tour
Adult/Child (6 and up) $15
Friday, February 27, 2009 2:00pm-3:00pm
Come along and as docents from the Coronado Historical Society lead us on a private 60 minute historical tour of the world renowned Hotel Del Coronado.
Designated in 1977 a National Historic Landmark, the Hotel del Coronado has a rich and colorful heritage that sets it apart from neighboring Coronado hotels. From Marilyn Monroe to Charles Lindbergh, from state dinners to the legendary ghost of Kate Morgan, the Del is an American treasure with over 115 years of fascinating stories to tell.

Golf in the San Diego Area
The CRRT Conference Hotel, Hotel Del has partnered with San Diego Golf Reservations to arrange tee times for guests at several off-site area courses in advance. Also, as a benefit associated with the daily resort charge, hotel guests receive a $20 discount off green fees at La Costa Resort & Spa in Carlsbad, CA. The Del's Concierge can help arrange tee times at the Coronado Golf Course. Please contact the concierge at the Hotel Del for arrangements concierge@hoteldel.com. Tel: 800-HOTELDEL

All tours are based on availability and subject to change.

CONFERENCE CANCELLATION POLICY
If your registration must be cancelled, your fee, less $100 U.S. for administrative costs, will be refunded upon your written request. No refunds will be made after February 9, 2009. Allow 6-8 weeks for refund.

CONFERENCE OFFICE / INFORMATION
RES Seminars.    Phone: 858-272-1018    Conference Website: www.crrtonline.com
4425 Cass Street, Suite A    Fax: 858-272-7687
San Diego, CA 92109 USA    Email: res@crrtonline.com
LEARNER OBJECTIVES
The CRRT conference is designed to provide an up-to-date review of the latest developments and research in the field of ICU medicine, acute kidney injury and CRRT. The conference is structured to promote multidisciplinary interaction among specialists in nephrology, critical care, nursing support personnel and industry involved in the care of the critically ill patient. A combination of invited lectures, lively debates, panel discussions, interactive workshops, oral and poster presentations will be utilized for CME credits.

At the end of this conference attendees should be able to:
1. Discuss the pathophysiology of critical illness and acute kidney injury
2. Describe the principles and practice of CRRT techniques and their application
3. Recognize key features for fluid management, hemodynamic monitoring and resuscitation for critically ill patients
4. Obtain hands on experience with different CRRT machines

ACCREDITATION STATEMENT
This activity has been planned and implemented in accordance with the Essential Areas and policies of the Accreditation Council for Continuing Medical Education through the joint sponsorship of the University of California, San Diego School of Medicine and CRRT Inc. The University of California, San Diego School of Medicine is accredited by the ACCME to provide continuing medical education for physicians.

The University of California, San Diego School of Medicine designates this educational activity for a maximum of 21.5 AMA PRA Category 1 Credits™. Physicians should only claim credit commensurate with the extent of their participation in the activity. Additional credits available with attendance at a number of elective hands-on workshops offered Wednesday and Saturday.

NEEDS ASSESSMENT
The needs assessment for the CRRT Conference is for the impact of new knowledge, increased competence, improved performance, new trends and technologies. The needs are based on expert faculty opinion, literature review, new medical knowledge and prior activity feedback.

TARGET AUDIENCE
The CRRT target audience includes: MD/DOs, NP/PA/Nurses, Dieticians, Industry, Pharmacists, Residents and Fellows. Specialties include: Anesthesiology, Cellular & Molecular Medicine, Critical Care, Emergency Medicine, Family & Preventative Medicine, Geriatrics, and Internal Medicine.

FACULTY DISCLOSURE STATEMENT
It is the policy of the University of California, San Diego Continuing Medical Education (UCSD CME) to ensure balance, independence, objectivity and scientific rigor. All faculty participating are required to disclose any real or apparent conflict of interest related to the content of their presentation. All conflicts of interest will be resolved prior to an educational activity being delivered to learners through one of the following mechanisms 1) altering the financial relationship with the commercial interest, 2) altering the individual’s control over CME content about the products or services of the commercial interest, and/or 3) validating the activity content through independent peer review. All faculty are also required to disclose any discussions of off label/unapproved uses of drugs or devices.

CULTURAL AND LINGUISTIC COMPETENCY
This activity is in compliance with California Assembly Bill 1195 which requires continuing medical education activities with patient care components to include curriculum in the subjects of cultural and linguistic competency. Cultural competency is defined as a set of integrated attitudes, knowledge, and skills that enables health care professionals or organizations to care effectively for patients from diverse cultures, groups, and communities. Linguistic competency is defined as the ability of a physician or surgeon to provide patients who do not speak English or who have limited ability to speak English, direct communication in the patient’s primary language. Cultural and linguistic competency was incorporated into the planning of this activity. Additional resources on cultural and linguistic competency and information about AB1195 can be found on the UCSD CME website at http://cme.ucsd.edu.
### Full Day Concurrent Workshops - HO1 and HO2

**8:00am-5:15pm**  
**HO1: Gambro Workshop - Mimic the Native Kidney w/ Prismaflex**  
A practical approach to Evidence, Prescribing and Treatment

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker(s)</th>
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</table>
| 8:00-10:15 | **SESSION 1**  
Coffee Break | William Clark, MD |
| 10:15-10:30 |  
**SESSION 2**  
Lunch Hosted by Conference for Workshop Participants | Michael Kraus, MD |
| 10:30-12:30pm |  
SESSION 2 | Ashita Tolwani, MD |

**HO2: Fundamentals of CRRT**  
See page 4 for description

<table>
<thead>
<tr>
<th>Time</th>
<th>Session</th>
<th>Speaker(s)</th>
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<tbody>
<tr>
<td>8:00-8:40</td>
<td>Operating Principles of CRRT</td>
<td>William Clark, MD</td>
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<tr>
<td>8:40-9:20</td>
<td>Access/Membrane and Circuit</td>
<td>Michael Kraus, MD</td>
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<tr>
<td>9:20-10:00</td>
<td>Anticoagulation</td>
<td>Ashita Tolwani, MD</td>
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<td>10:00-10:15</td>
<td>Discussion</td>
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<tr>
<td>10:15-10:30</td>
<td>Coffee Break</td>
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<tr>
<td>10:30-11:10</td>
<td>Solute Control and Dose</td>
<td>Paul Palevsky, MD</td>
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<tr>
<td>11:10-11:50</td>
<td>Solutions</td>
<td>Andrew Davenport, MD</td>
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<tr>
<td>11:50-12:15</td>
<td>Fluid Management</td>
<td>Ravindra Mehta, MD</td>
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<tr>
<td>12:15-12:30</td>
<td>Discussion</td>
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<tr>
<td>12:30-1:30</td>
<td>Lunch Hosted by Conference for Workshop Participants</td>
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<tr>
<td>1:30-2:10</td>
<td>Drug Management</td>
<td>Bruce Mueller, PharmD, FCCP</td>
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<tr>
<td>2:10-3:00</td>
<td>Patient Selection and Outcomes</td>
<td>Paul Palevsky, MD</td>
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<td>3:00-3:15</td>
<td>Discussion</td>
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<td>3:15-3:30</td>
<td>Coffee Break</td>
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<tr>
<td>3:30-4:10</td>
<td>Organizational and Financial Aspects</td>
<td>Jorge Cerda, MD</td>
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<tr>
<td>4:10-5:15</td>
<td>CRRT Machine Comparisons</td>
<td>Industry</td>
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</tbody>
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### Half Day Concurrent Workshops - HO3 and HO4

**8:00am-12:30pm**  
**HO3: Baxter Workshop - Aquarius - A Comprehensive System for Optimal Care**  
(includes AM break & 12:30 lunch)  
See page 4 for description

**1:30pm-5:15pm**  
**HO4: How to Deliver CRRT to Pediatric Patients, from Neonates to Adolescents**  
See page 4 for description  
(includes 12:30 lunch & PM break)

<table>
<thead>
<tr>
<th>Speaker(s)</th>
<th>Institution</th>
</tr>
</thead>
<tbody>
<tr>
<td>Steven Alexander, MD</td>
<td>Amelia Allsteadt, BSN, RN, CNN</td>
</tr>
<tr>
<td>Cheryl Baker, BSN, RN</td>
<td>Patrick Brophy, MD, FAAP, FRCP</td>
</tr>
<tr>
<td>Timothy Bunchman, MD</td>
<td>Helen Currier, BSN, RN, CNN</td>
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<tr>
<td>Stuart L. Goldstein, MD</td>
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5:30-8:00pm  
Conference Registration Open

6:00pm-7:30pm  
**Reception and Poster Review - For All Workshop Participants**
### SIMULTANEOUS WORKSHOPS
#### GROUP 1

<table>
<thead>
<tr>
<th>Time</th>
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<tbody>
<tr>
<td>8:30-10:00</td>
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<tr>
<td>A01* CRRT Systems I (C,N,AP)</td>
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<tr>
<td>I. B. Braun Diapact II</td>
<td></td>
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<tr>
<td>II. Baxter - Aquarius System</td>
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<tr>
<td>Device demonstrations of features, setup, operation, monitoring and discontinuation.</td>
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<tr>
<td>B02 Vascular Access /Membrane and Circuit 1 (C,N,AP)</td>
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<tr>
<td>Principles of catheter choice, placement, maintenance, recognition and management of complications, selection and use of membranes for different applications, circuit design, setup and monitoring.</td>
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<td>C03 Dialysis Dose Prescription and Delivery (C,N,AP)</td>
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<td>Operational characteristics influencing solute removal in CRRT</td>
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<tr>
<td>D04 Critical Care Pharmacology: Vasopressors, and Ionotropes (A,N,AP)</td>
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<tr>
<td>Pathophysiology of shock and the principles and practical use of vasopressors, ionotropes, vasodilators in critically ill patients.</td>
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<td>E05 Organizational Aspects of CRRT Programs (C,N,AP)</td>
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<tr>
<td>Practical issues for organization and implementation of a CRRT program.</td>
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<tr>
<td>Developing policies and protocols for CRRT.</td>
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<tr>
<td>F06 Extracorporeal Techniques for Sepsis 1: Pathophysiology and Targets (A)</td>
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<tr>
<td>Pathophysiology of sepsis and rationale for use of extracorporeal support in treatment of sepsis. Experimental models for high permeability membranes, HVHF, VHVHF and hybrid therapies.</td>
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<tr>
<td>G07 Biomarkers: Principles and Applications (A)</td>
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<tr>
<td>Principles and classification of biomarkers and their application for diagnosis and management of diseases. Criteria for using biomarkers as surrogate end points.</td>
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<tr>
<td>H08* CRRT Systems II (C,N,AP)</td>
<td></td>
</tr>
<tr>
<td>I. Fresenius Systems</td>
<td></td>
</tr>
<tr>
<td>Device demonstrations of features, setup, operation, monitoring and discontinuation.</td>
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<tr>
<td>I09 Fluids and Solutions in the Critically III 1</td>
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<tr>
<td>How to select and use colloids, crystalloids and blood products.</td>
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</tbody>
</table>

### SIMULTANEOUS WORKSHOPS
#### GROUP 2

<table>
<thead>
<tr>
<th>Time</th>
<th>Workshop Details</th>
</tr>
</thead>
<tbody>
<tr>
<td>10:00-10:15</td>
<td>Coffee Break</td>
</tr>
<tr>
<td>10:15-11:45</td>
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</tr>
<tr>
<td>A09* CRRT Systems III (C,N,AP)</td>
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<tr>
<td>I. NxStage Therapy System</td>
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<td>II. Gambro</td>
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<tr>
<td>Device demonstrations of features, setup, operation, monitoring and discontinuation.</td>
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<tr>
<td>B10 Anticoagulation: Mechanisms and Techniques (C,N,AP)</td>
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<tr>
<td>Anticoagulation regimens: Mechanisms, selection, prescription, monitoring and implementation.</td>
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<tr>
<td>C11 Fluid Management (C,N,AP)</td>
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<tr>
<td>Principles of volume assessment, fluid removal and fluid regulation with different CRRT equipment.</td>
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<tr>
<td>D12 Critical Care Management: Nutrition Assessment and Delivery (I,N,AP)</td>
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</tr>
<tr>
<td>Pathophysiology of malnutrition in critically ill patients. Principles of nutritional assessment and support and adjustments for RRT.</td>
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<tr>
<td>E13 Competency Assessment in CRRT (C,N)</td>
<td></td>
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<tr>
<td>Description on training requirements, core curriculum and skills assessment for CRRT care delivery.</td>
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</tr>
<tr>
<td>F14 Liver and the Kidney 1: Principles of Hepatic Dysfunction (A,N)</td>
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<tr>
<td>Pathophysiology of hepatic failure and rationale for use of different techniques for extracorporeal support techniques (Cell based systems, MARS, CRRT) for hepatic support.</td>
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<tr>
<td>G15 Therapy Comparisons: SLED vs. CRRT vs. PD (C,N,AP)</td>
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<tr>
<td>Comparisons of operational characteristics including anticoagulation, membranes, solutions and flows and approaches for ongoing and future research.</td>
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</tr>
<tr>
<td>H16 Pediatric CRRT: The Basics (I,N,AP)</td>
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</tr>
<tr>
<td>Technique requirement and application for use in children including neonates. Practical issues for setting up and maintaining a pediatric CRRT program. Policies and procedures and protocol based management.</td>
<td></td>
</tr>
</tbody>
</table>
THURSDAY AFTERNOON, FEBRUARY 26

11:45am-1:15pm   Lunch Hosted by Conference

Special Panel Discussion
Technology for RRT: Do We Have What We Need?
10 min   Physicians - R. Bellomo & C. Ronco
10 min   Nursing & Allied Personnel - I. Baldwin & B. Mueller
30 min   Industry Update
10 min   Discussion

OPENING SESSION I: PATIENT CHARACTERISTICS

1:15-3:30   Plenary 1
MINI-SYMPHOSIA
Organ Dysfunction in the Critically Ill Patient: Emerging Concepts
Co-Chairs: Noel Gibney, MD
Anthony M. Roche, MB ChB

1:15-1:20   Opening Remarks
Ravindra L Mehta, MD, FACP

1:20-1:40   Disordered Tissue Perfusion: The Role of the Microcirculation in Critical Illness
Can Ince, PhD

1:40-2:00   Sepsis Induced Organ Dysfunction: Strategies for Prevention and Treatment
William Macias, MD

2:00-2:20   The Pathophysiology of Burns: A Unique Model for Organ Dysfunction
Kevin K. Chung, MD

2:20-2:40   Acute Lung Injury
Boyd Taylor Thompson, MD

2:40- 3:00   Repair Mechanisms: Stem Cells and the Kidney
Christof Westenfelder, MD

3:00-3:30   SPECIAL LECTURE
Surviving Critical Illness: Lessons from Caudwell Xtreme Everest 2007
Monty Mythen, MD

3:30-3:45   Panel Discussion
Moderator: Rinaldo Bellomo, MD

3:45-4:15   Coffee Break: Exhibits Open
SESSION II: EMERGING CONCEPTS IN AKI AND CRITICAL CARE

7:25-7:30am Announcements
Ravindra L. Mehta, MD, FACP

7:30-9:45 Plenary 3
MINI-SYMPOSIUM
Controversies in Management of the Critically Ill Patient:
Fluid Management
Co-Chairs: William Macias, MD, PhD
Miet Schetz, MD

7:30-7:50 Early Goal Directed Therapy - The US Multi-center Trial
John Kellum, MD, FACP

7:50-8:10 Crystalloids, Colloids and Blood: What Should One Use?
Rinaldo Bellomo, MD

8:10-8:30 Perioperative Fluid Optimization
Anthony M. Roche, MB ChB

8:30-8:50 Fluid Regulation in the Critically Ill: Optimizing Renal Support
Anthony M. Roche, MB ChB

8:50-9:10 Challenging Cases 1
The Patient with Heart Failure and Cardiac Renal Syndrome:
Noel Gibney, MD, Alan Maisel, MD and Emil Paganini, MD

9:10-9:30 SPECIAL LECTURE
Optimizing Lung Function: Fluid Management in Respiratory Failure
Boyd Taylor Thompson, MD

9:30-9:45 Panel Discussion
Moderator: Stuart L. Goldstein, MD

9:45-10:15 Coffee Break

10:15-1:00 Plenary 4
MINI-SYMPOSIUM
Challenges and Controversies in Renal Support and CRRT
Co-Chairs: Ian Baldwin, RN, MN, PhD, ACCCN
Timothy Bunchman, MD
Thomas Golper, MD

10:15-10:30 CRRT Dose, Modality and Sepsis
Stuart L. Goldstein, MD

10:30-10:45 High Volume Hemofiltration in Sepsis: Hemodynamics and Beyond - Have we Found the Missing Link?
Patrick Honoré, MD

10:45-11:00 Does RRT Contribute to CKD and ESRD?
TBA

11:00-11:15 Systems based and Patient Minded Care: Models for CRRT
Linda Awdishu, BSc, Pharm D

11:15-11:30 Dialysis in the Developing World: Challenges and Opportunities
Raj Chakravarthi, MD

11:30-11:45 Is PD a Viable Option for Critically Ill Patients?
Emmanuel Burdmann, MD

11:45-12:05 The ATN Study: What Have We Learned?
Paul Palevsky, MD

12:05-12:20 Challenging Cases 2
A Patient with Severe Electrolyte and Acid Base Problems Post TBI
Lakhmir Chawla, MD
Kevin K. Chung, MD

12:20-12:50 Debate
Dose of Dialysis in the Critically Ill Patient
Claudio Ronco, MD vs Norbert Lameire, MD
Moderator: Rinaldo Bellomo, MD

12:50-1:00 Panel Discussion
Moderator: Rinaldo Bellomo, MD

1:00-2:30 Lunch Hosted by Conference

Make your hotel reservations early!
Information/web link at crronline.com
OR call the hotel directly...
Hotel del Coronado
1-800-Hotel Del
1-619-435-6611
FRIDAY AFTERNOON, FEBRUARY 27

2:30-4:00
SIMULTANEOUS WORKSHOPS
GROUP 3
A17* CRRT Systems I (C,N,AP)
  I. B. Braun Diapact
  II. Baxter - Aquarius System
  Device demonstrations of features, setup, operation, monitoring and discontinuation.
B18 Drug Management in CRRT (C,N,AP)
  Drug Dosing principles for critically ill patients and adjustments in extracorporeal support techniques.
C19 Timing of Initiation for RRT: Principles and Practice (A)
  Principles of determining when to start and stop RRT. Case based discussion of various approaches.
D20 Principles of Resuscitation (C,N)
  Principles of resuscitation for the critically ill patient.
E21 Acid Base and Electrolyte Problems in the Critically Ill 1 (C,N,AP)
  Case based discussions of applications of solutions for acid-base and metabolic control.
F22 Heart Failure and Cardio-renal Syndrome 1 (I)
  Pathophysiology, recognition and management strategies for cardiac and renal failure in the critically ill patient.
G23 Extracorporeal Techniques for Sepsis 2 (A)
  Technical considerations and practical application of extracorporeal support techniques for sepsis. Results of human studies for use of high permeability membranes, HVHF, VHVHF and hybrid techniques for sepsis.
H24 CRRT Systems III (C,N,AP)
  I. Fresenius Systems
  Device demonstrations of features, setup, operation, monitoring and discontinuation.
I25 Fluids and Solutions in the Critically Ill 2
  Solutions for CRRT: What’s available and applications for Electrolyte and Acid Base Balance.

4:00-4:30 Break

4:30-6:00
SIMULTANEOUS WORKSHOPS
GROUP 4
A25* CRRT Systems III (C,N,AP)
  I. NxStage Therapy System
  II. Gambro
  Device demonstrations of features, setup, operation, monitoring and discontinuation.
B26 Acid Base and Electrolyte Problems in the Critically Ill 2 (C,N,AP)
  Case based discussion of management of common electrolyte and divalent ion problems in critically ill patients.
C27 Plasma Exchange Therapy and Hybrid Techniques (A,N)
  Principles of plasma exchange, sorbent based and hybrid therapies for extracorporeal support. Case based discussion of practical application of plasma exchange, sorbent based and hybrid therapies for extracorporeal support.
D28 Renal Support in Disasters: Principles and Experience (A,P)
  Principles for managing crush injury, and practical aspects of RRT support in natural and man made disasters. Experience from earthquakes, hurricanes and battlefield injuries.
E29 A Systems-based Approach to CRRT (I,N,AP)
  Principles of systems based management strategies and their application to CRRT. Approaches to reduce errors in therapy prescription and delivery.
F30 Heart Failure and Cardio-renal Syndrome 2 (A,N)
  Technical considerations, practical application and results of different methods to treat heart failure and cardio-renal syndrome.
G31 Liver and Kidney 2:
  Hepatic Support (A,N)
  Technical considerations, practical application and results of different methods of hepatic support for patients with hepatic failure and hepatorenal syndrome.
H32 CRRT in the New Born: Principles and Application Nursing Issues in Pediatric CRRT (C,N,AP)
  Pathophysiology and management of metabolic disorders and intoxications with CRRT.

6:00 Adjourn
Free Evening
### Session III: Technique Characteristics

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Presenter(s)</th>
</tr>
</thead>
<tbody>
<tr>
<td>7:25-7:30</td>
<td><strong>Announcements</strong></td>
<td></td>
</tr>
<tr>
<td>7:30-10:10</td>
<td><strong>Plenary 5</strong>&lt;br&gt;<strong>Mini-Symposia</strong>&lt;br&gt;<em>Emerging Concepts in AKI</em>&lt;br&gt;<em>Co-Chairs:</em> Steven R. Alexander, MD&lt;br&gt;Andrew Davenport, MD</td>
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<tr>
<td>7:30-7:50</td>
<td><strong>Diagnosing and Staging AKI:</strong>&lt;br&gt;<strong>What are the Issues?</strong>&lt;br&gt;Michael Zappitelli, MD, MSc</td>
<td></td>
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<tr>
<td>7:50-8:10</td>
<td><strong>AKI in the Developing World:</strong>&lt;br&gt;<strong>What Have We Learned?</strong>&lt;br&gt;Norbert Lamiere, MD</td>
<td></td>
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<tr>
<td>8:10-8:35</td>
<td><strong>Mini Review</strong>&lt;br&gt;<em>The Heart and the Kidney: ADQI VII update</em>&lt;br&gt;Claudio Ronco, MD</td>
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<tr>
<td>8:35-8:55</td>
<td><strong>Predicting Recovery From AKI:</strong>&lt;br&gt;<strong>What Criteria?</strong>&lt;br&gt;John Kellum, MD, FACP</td>
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<tr>
<td>8:55-9:15</td>
<td><strong>Contrast Nephropathy:</strong>&lt;br&gt;<em>What Do We Know?</em>&lt;br&gt;Richard Solomon, MD</td>
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<tr>
<td>9:15-9:35</td>
<td><strong>Pre-renal Azotemia:</strong>&lt;br&gt;<em>Changing Paradigms</em>&lt;br&gt;Ravindra L. Mehta, MD, FACP</td>
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<tr>
<td>9:35-9:55</td>
<td><strong>Challenging Cases 3</strong>&lt;br&gt;<em>How I Manage a Patient With Liver Failure and Renal Dysfunction</em>&lt;br&gt;Andrew Davenport, MD&lt;br&gt;Tarek Hassanein, MD</td>
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<tr>
<td>9:55-10:10</td>
<td><strong>Panel Discussion</strong>&lt;br&gt;<em>Moderator:</em> Jorge Cerda, MD</td>
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<tr>
<td>10:10-10:30</td>
<td><strong>Coffee Break</strong></td>
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</table>

### Session IV: Future Trends in CRRT and Critical Care

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
<th>Presenter(s)</th>
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<tbody>
<tr>
<td>10:30-1:00</td>
<td><strong>Plenary 6</strong>&lt;br&gt;<strong>Mini Symposia</strong>&lt;br&gt;<em>Emerging Strategies in AKI and Extracorporeal Support</em>&lt;br&gt;<em>Co-Chairs:</em> Timothy Bunchman, MD&lt;br&gt;Hiroyuki Hirasawa, MD</td>
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<tr>
<td>10:30-10:50</td>
<td><strong>Functional Evaluation of the Critical Care Patient Using Fluorescence Technology</strong>&lt;br&gt;Bruce Molitoris, MD</td>
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<tr>
<td>10:50-11:10</td>
<td><strong>Guidelines for AKI:</strong>&lt;br&gt;<em>Update from KDIGO</em>&lt;br&gt;Norbert Lamiere, MD</td>
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<td>11:00-1:00</td>
<td><strong>Multi-organ Support Therapy</strong>&lt;br&gt;James D. Fortenberry, MD</td>
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<tr>
<td>11:30-1:00</td>
<td><strong>Improving Outcomes in AKI:</strong>&lt;br&gt;<em>Its All About Nursing!</em>&lt;br&gt;Ian Baldwin, RN, MN, PhD, ACCCN</td>
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<tr>
<td>11:50-12:20</td>
<td><strong>CRRT Support in Disasters:</strong>&lt;br&gt;<em>The Chengdu Experience</em>&lt;br&gt;Li Wang, MD&lt;br&gt;<em>The Battlefield Experience</em>&lt;br&gt;Kevin K. Chung, MD</td>
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<tr>
<td>12:20-12:35</td>
<td><strong>Endotoxin Removal in Sepsis:</strong>&lt;br&gt;<em>The EUPHAS Study</em>&lt;br&gt;Dinna Cruz, MD</td>
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<tr>
<td>12:35-12:55</td>
<td><strong>Critical Care Nephrology:</strong>&lt;br&gt;<em>Literature Review</em>&lt;br&gt;Noel Gibney, MD</td>
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<tr>
<td>12:55-1:00</td>
<td><strong>Closing Remarks</strong>&lt;br&gt;<em>Ravindra L. Mehta, MD, FACP</em>&lt;br&gt;<em>Chairman</em></td>
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<td>1:00</td>
<td><strong>Conference Adjourns</strong></td>
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### PROGRAM

**SATURDAY AFTERNOON, FEBRUARY 28**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>2:00-5:30</td>
<td>Concurrent Elective Hands-On Workshops</td>
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<tr>
<td>1:00-2:00</td>
<td><em>Lunch Hosted by Conference for Workshop Participants</em></td>
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<tr>
<td>2:00-3:30</td>
<td><strong>SESSION 1</strong></td>
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<td><strong>HO5: Fresenius Workshop “SLED, CRRT and IHD with the 2008K”</strong></td>
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<td>Learn how to use the Fresenius system for SLED, CRRT and IHD for acute renal failure.</td>
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<td><strong>HO6: Principles of Resuscitation Using Sim-Man</strong></td>
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<td>An interactive hands-on workshop covering the general approach to resuscitation and emerging concepts in resuscitation science. Case studies will be used to illustrate various principles and management of common scenarios. Skills performed on SIM_MAN a high-fidelity human patient simulator.</td>
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<td>Dan Davis, MD and Patti Graham, RN, MSN, CNS, CCRN</td>
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<td><strong>HO7: Hemodynamic Monitoring and Ventilator Management</strong></td>
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<td>Critically ill Patients require frequent assessments and monitoring of hemodynamic and respiratory parameters to optimize stability and guide ventilator support. Several techniques are now available and utilized to manage patients including devices to assess the microcirculation, volume responsiveness and cardiac performance. This workshop will cover the principles and strategies for hemodynamic and microcirculatory monitoring and ventilator management in critically ill patients.</td>
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<td>Can Ince, PhD, Monty Mythen, MD, Anthony M. Roche, MB ChB and</td>
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<td>Boyd Taylor Thompson, MD</td>
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<td><strong>HO8: Essentials for Developing, Nurturing and Growing a CRRT Program</strong></td>
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<td>Successful CRRT programs require careful planning, nurturing and ongoing monitoring for growth and effectiveness. This workshop will cover the key elements for building and enhancing a program. Topics to be covered include developing a multidisciplinary team, creating tool kits for training, assessments and monitoring effectiveness of the program, dealing with administration, financial considerations and strategies for program growth.</td>
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<td></td>
<td>Linda Awdishu, BSc, Ian Baldwin RN, Pharm D, Jorge Cerda MD, Eileen Lischer RN and Emil Paganini MD</td>
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<tr>
<td>3:15-3:30</td>
<td>Coffee Break</td>
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<tr>
<td>3:30-5:30</td>
<td><strong>SESSION 2</strong></td>
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<tr>
<td>5:30</td>
<td>Workshops Adjourn</td>
</tr>
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</table>

**Mark Your Calendar Now!**

**CRRT 2010**

Hotel del Coronado  
San Diego, California  
February 24-27, 2010
ABSTRACT INFORMATION

DEADLINE FOR RECEIPT OF ABSTRACTS: December 12, 2008

Abstract Submission Via Our Website Is Required
www.crrtonline.com

GENERAL INFORMATION
1. The abstract must be written in English.
3. Online abstract submissions are required. See website for details: www.crrtonline.com
4. Presenting authors must pay the registration fee and attend the meeting. Authors of accepted
   abstracts are not provided with travel funds.
5. All accepted abstracts for poster presentation will be included on the CRRT Conference
   multi-media CD that is distributed at the meeting.
6. All accepted abstracts will be exhibited throughout the duration of the conference.

CONTENT OF THE ABSTRACT
1. Abstracts are limited to 350 words.
2. Abstract Body: purpose of the study, methods used, summary of the results and conclusion reached.
3. Please try to limit your author list to 10.
4. References and credits MUST NOT be included in the abstract.
5. Simple tables, figures and graphs may be included, but avoid the use of special characters.
6. Formulas should be avoided.
7. Use standard abbreviations in parentheses after the full word appears the first time.
8. Please indicate the subject category your abstract most closely represents:
   a) Patient Characteristics; b) Emerging Concepts in AKI and CRRT; c) Technique Characteristics;
   d) Targeted Intervention With CRRT; e) Future Trends in CRRT; f) CRRT Research
9. Abstracts will be published as submitted. Proof and edit your submission accordingly.

TRAVEL AND REGISTRATION AWARDS FOR FELLOWS IN TRAINING.
Generous awards are made possible by support from NxStage, Baxter Healthcare and Fresenius, and further supported by the International Society of Nephrology AKI Committee.

Fellows in an accredited training program who submit a poster abstract to be presented at the CRRT Conference are eligible to apply for Registration and Travel Awards for the conference. Awards will be based on the quality and relevance of the research as judged by the abstract review committee. Awards will be provided based on availability of funds. The top three abstracts will be recognized. Award recipients are required to be present at their poster sessions on Wed. Feb. 25 and Thur. Feb. 26.
1. Registration Awards - Conference Registration Fee for both the regular CRRT Conference and
   an elective Hands-On Workshop held on Wednesday, February 25, 2009.
2. Travel Awards - Checks for up to a maximum of $500 will be presented at the time of the conference.
3. Recognition Awards - The top three Fellow abstracts will be awarded recognition plaques.

CRITERIA FOR GRANTS AND/OR AWARDS
1. Submit a poster abstract (via CRRT web site) and present a poster in the topics covered in the
2. Fellows must be currently enrolled in an accredited fellowship program in their host country.
3. Submit a signed letter (same time as abstract) from their program director verifying their
   current status in the program. NOTE: Signed letter must be faxed or emailed to CRRT
   administration office (fax: 1-858-272-7687 or res@crrtonline.com) on the same date
   as submission of abstract. Abstracts submitted without dated faxed letter will not be accepted for Grants.
4. Designate their request for financial support on the CRRT web site abstract application form.
5. Fellows must attend an offered hands-on workshop.

SUBMISSION
1. Notification of acceptance will be mailed by January 5, 2009 with additional information
   regarding poster dimensions, preparation and presentation of your poster.
2. For additional information or if you are unable to complete an online submission contact:
   RES Seminars
   4425 Cass Street, Suite A
   San Diego, CA 92109 USA
   Phone: 858-272-1018
   Fax: 858-272-7687
   Email: res@crrtonline.com
   Website: crrtonline.com
CONFERENCE REGISTRATION FORM

Registration may be completed online at:  www.crrtonline.com

Last Name __________________________________________________________________ (MD) (PhD) (RN) (Other)
First Name_______________________________________________   Middle Initial______
Address____________________________________________________________________
City___________________________ State________  Zip____________ Country_________
Telephone: (______)________________________  Fax: (______)_____________________
(Please include country and city codes)
Email: _____________________________________________________________________
Affiliation:________________________________________________________________
Specialty: (Int Med) (Neph) (Crit Care) (Ped) (Surg) (Anest) (Other)________

REGISTRATION FEES

<table>
<thead>
<tr>
<th>Registrants (MD, PhD, etc.)</th>
<th>Early Bird On or before January 16, 2009</th>
<th>Pre-Registration January 17 thru Feb. 20, 2009</th>
<th>Registration Feb. 21 thru Feb. 28, 2009</th>
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<tbody>
<tr>
<td>$ 645</td>
<td>$ 710</td>
<td>$ 775</td>
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<tr>
<td>Nurses/Dieticians/Pharmacists Residents*/Fellows*/Industry**</td>
<td>$ 435</td>
<td>$ 505</td>
<td>$ 565</td>
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</table>

*requires letter of verification from dept. head
**must be employed by CRRT Industry Partner

Total Registration Fees: __________

Fee Includes: Access to general sessions, conference workshops (Thurs-Fri) Exhibit area, Reception on Thursday and Lunches on Thursday & Friday. Does not include Elective Hands-On Workshops.

ELECTIVE HANDS-ON WORKSHOPS see back of this form for selection and titles

<table>
<thead>
<tr>
<th>Wednesday, Feb. 25th - 8:00am-5:15pm Full day</th>
<th>$ 150 x ____ = _________</th>
</tr>
</thead>
<tbody>
<tr>
<td>Wednesday, Feb. 25th - 8:00am-12:30pm Half day</td>
<td>$ 90 x ____ = _________</td>
</tr>
<tr>
<td>Wednesday, Feb. 25th - 1:30-5:15pm Half day</td>
<td>$ 90 x ____ = _________</td>
</tr>
<tr>
<td>Saturday, Feb 28th - 2:00-5:00pm Half day</td>
<td>$ 90 x ____ = _________</td>
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</tbody>
</table>

Total Elective Hands-On Workshop Fees: __________

GUEST FEE (Guests are not admitted to Sessions or Workshops) $150 x ____ = _________

Includes access to Exhibit Area, Reception on Thurs., Lunch on Thurs. & Fri.

TOUR FEES (see page 5 for details)

<table>
<thead>
<tr>
<th>San Diego Trolley Car Tour Thursday, Feb. 26, 2009</th>
<th>Adult $30 x ____ = _________</th>
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<tbody>
<tr>
<td>Hotel del Coronado Tour Friday, February, 27, 2009</td>
<td>Adult/Child $15 x ____ = _________</td>
</tr>
</tbody>
</table>

Total Tour Fees: __________

Please complete payment information and workshop selection on the back of this form

TOTAL FEES: __________
CONFERENCE REGISTRATION FORM

CONFERENCE FEES AND PAYMENT
Please complete this section with total fees for Registration, Hands-on Workshops, Guest and Elective Activities

TOTAL FEES: $___________

PAYMENT BY CHECK:
U.S. FUNDS, DRAWN ON A U.S. BANK Payable to: San Diego CRRT Conference

CREDIT CARD PAYMENT: (only) ❑ VISA OR ❑ MASTERCARD

Card Number________________________________________
Expiration Date___________/_______/_______
Name on Card________________________________________
Signature____________________________________________

MAIL or FAX TO: CRRT Conference
RES Seminars
4425 Cass Street, Suite A
San Diego, CA 92109 USA
Fax: 858-272-7687

WORKSHOP SELECTION
Please select Workshops from the list on the next page.

Every attempt will be made to assign you your choices, but the assignments will be made on availability at the time your registration is received. Please indicate a 2nd choice for each Workshop Group.

Pre-registration for workshops is required. We recommend using the conference website for workshop selection and conference registration: www.crrtonline.com

WORKSHOP Group 1 - Thur. 8:30-10:00am
1st choice                      2nd choice

WORKSHOP Group 2 - Thur. 10:15-11:45am
1st choice                      2nd choice

WORKSHOP Group 3 - Fri. 2:30-4:00pm
1st choice                      2nd choice

WORKSHOP Group 4 - Fri. 4:30-6:00pm
1st choice                      2nd choice

ELECTIVE HANDS-ON WORKSHOPS
Optional (fee required)

Workshops are “hands-on” and require a limited number of participants. Admission is based on a “first come first serve” for those delegates who select desired workshop and make payment. Register early!

Wednesday, Feb 25th
Choose one:
Full Day - 8:00am-5:15pm
Fee: $150 Includes lunch & breaks
❑ HO1: Gambro Workshop
❑ HO2: Fundamentals of CRRT

OR choose one or both of:
Half Day - 8:00am-12:30pm $90 lunch & break
❑ HO3: Baxter Healthcare Corporation
Half Day - 1:30pm-5:15pm $90 lunch & break
❑ HO4: Pediatric CRRT

Saturday, Feb 28th
Choose one:
Half Day - 2:00pm-5:30pm
Fee: $90 Includes lunch & break
❑ HO5: Fresenius Workshop
❑ HO6: Principles of Resuscitation
❑ HO7: Hemodynamic Monitoring and Ventilator Management
❑ HO8: Essentials for Developing and Nurturing a CRRT program

See page 4 for more workshop information
The workshops are designed for small group interaction on specific topics.

Workshops designated by an asterisk (*) will be presented twice in different time slots.

Workshops presented in a series are marked with a “1” for a primary workshop discussion in this area and “2” for a more complex or advanced discussion in this area. Please note that the series workshops 1 and 2 can be either taken subsequently (following each other) or they can each be taken independently (e.g. workshop 1 can be taken without taking workshop 2 and vice versa).

Please use the Workshop codes listed below to complete your registration form. Every attempt will be made to assign you your choices, but the assignments will be made on availability at the time your registration is received. Please indicate a 2nd choice for each Workshop Group.

### Group Categories

<table>
<thead>
<tr>
<th>A</th>
<th>Equipment workshops</th>
</tr>
</thead>
<tbody>
<tr>
<td>B</td>
<td>CRRT Prescription</td>
</tr>
<tr>
<td>C</td>
<td>CRRT Delivery</td>
</tr>
<tr>
<td>D</td>
<td>Critical Care Management</td>
</tr>
<tr>
<td>E</td>
<td>CRRT Program Organization &amp; Implementation</td>
</tr>
<tr>
<td>F</td>
<td>Non-Renal Applications for CRRT</td>
</tr>
<tr>
<td>G</td>
<td>Therapy comparisons and special topics</td>
</tr>
<tr>
<td>H</td>
<td>Equipment Workshops/Components, Solutions</td>
</tr>
</tbody>
</table>

**Example**

A – 01

Codes C = Core workshop, I = Intermediate, A = Advanced, N= Nurses, AP = (of interest to nurses and allied personnel)

### WORKSHOP Group 1

**Thursday** 8:30-10:00am

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
</tr>
</thead>
<tbody>
<tr>
<td>A01*</td>
<td>CRRT Systems I (C,N,AP)</td>
</tr>
<tr>
<td>B02</td>
<td>Vascular Access /Membrane and Circuit (C,N,AP)</td>
</tr>
<tr>
<td>C03</td>
<td>Dialysis Dose Prescription and Delivery (C,N,AP)</td>
</tr>
<tr>
<td>D04</td>
<td>Critical Care Pharmacology: Vasopressors, and Ionotropes (A,N,AP)</td>
</tr>
<tr>
<td>E05</td>
<td>Organizational Aspects of CRRT Programs (C,N,AP)</td>
</tr>
<tr>
<td>F06</td>
<td>Extracorporeal Techniques for Sepsis 1 (I,N,AP)</td>
</tr>
<tr>
<td>G07</td>
<td>Biomarkers Principles and Applications (A)</td>
</tr>
<tr>
<td>H08*</td>
<td>CRRT Systems II (C,N,AP)</td>
</tr>
<tr>
<td>I09</td>
<td>Fluids and Solutions in the Critically Ill 1</td>
</tr>
</tbody>
</table>

### WORKSHOP Group 2

**Thursday** 10:15-11:45am

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>A09*</td>
<td>CRRT Systems III (C,N,AP)</td>
</tr>
<tr>
<td>B10</td>
<td>Anticoagulation: Mechanisms and Techniques (C,N,AP)</td>
</tr>
<tr>
<td>C11</td>
<td>Fluid Management (C,N,AP)</td>
</tr>
<tr>
<td>D12</td>
<td>Critical Care Management: Nutrition Assessment and Delivery (C,N,AP)</td>
</tr>
<tr>
<td>E13</td>
<td>Competency Assessment in CRRT (C,N,)</td>
</tr>
<tr>
<td>F14</td>
<td>Liver and Kidney 1: Principles of Hepatic Dysfunction (A,N)</td>
</tr>
<tr>
<td>G15</td>
<td>Therapy Comparisons: SLED vs. CRRT vs. PD (C,N,AP)</td>
</tr>
<tr>
<td>H16</td>
<td>Pediatric CRRT: The Basics (I,N,AP)</td>
</tr>
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</table>

### WORKSHOP Group 3

**Friday** 2:30-4:00pm

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>A17*</td>
<td>CRRT Systems I (C,N,AP)</td>
</tr>
<tr>
<td>B18</td>
<td>Drug Management IN CRRT (C,N,AP)</td>
</tr>
<tr>
<td>C19</td>
<td>Timing of Initiation for RRT: Principles and Practice (A)</td>
</tr>
<tr>
<td>D20</td>
<td>Principles of Resuscitation (C,N)</td>
</tr>
<tr>
<td>E21</td>
<td>Acid Base and Electrolyte Problems in the Critically Ill 1 (A)</td>
</tr>
<tr>
<td>F22</td>
<td>Heart Failure and Cardio-Renal Syndrome 1 (A)</td>
</tr>
<tr>
<td>G23</td>
<td>Extracorporeal Techniques for Sepsis 2 (A)</td>
</tr>
<tr>
<td>H24*</td>
<td>CRRT Systems II (C,N,AP)</td>
</tr>
<tr>
<td>I25</td>
<td>Fluids and Solutions in the Critically Ill 2</td>
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### WORKSHOP Group 4

**Friday** 4:30-6:00pm

<table>
<thead>
<tr>
<th>Code</th>
<th>Title</th>
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</thead>
<tbody>
<tr>
<td>A25*</td>
<td>CRRT Systems III (C,N,AP)</td>
</tr>
<tr>
<td>B26</td>
<td>Acid Base and Electrolyte Problems in the Critically Ill 2 (C,N,AP)</td>
</tr>
<tr>
<td>C27</td>
<td>Plasma Exchange Therapy and Hybrid Techniques (A)</td>
</tr>
<tr>
<td>D28</td>
<td>Renal Support in Disasters: Principles and Experience (A,P)</td>
</tr>
<tr>
<td>E29</td>
<td>A Systems-based Approach to CRRT (I,N,AP)</td>
</tr>
<tr>
<td>F30</td>
<td>Heart Failure and Cardio-Renal Syndrome 2 (A,N,)</td>
</tr>
<tr>
<td>G31</td>
<td>Liver and Kidney 2: Hepatic Support (A,N,)</td>
</tr>
<tr>
<td>H32</td>
<td>CRRT in the New Born: Principles and Application Nursing Issues in Pediatric CRRT (C,N,AP)</td>
</tr>
</tbody>
</table>
The Fourteenth International Conference on Continuous Renal Replacement Therapies

CRRT 2009

February 25 - 28, 2009
San Diego, California

Hotel del Coronado

crrtonline.com