Dear Colleague,

The CRRT Conference continues to provide a comprehensive coverage of the rapidly developing field of Critical Care Nephrology and CRRT. It highlights the recent advances in our understanding of pathophysiology of critical illness, acute kidney injury, emerging strategies in the management of sepsis, multiorgan failure, development and use of biomarkers, technical advances in CRRT and the appropriate utilization of these techniques.

This year's program presents controversies and new research to optimize fluid management, dialysis dose, 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.

New this year we are offering a Pre-Conference AKI Workshop titled: “Changing Paradigms in Acute Kidney Injury: From Mechanism to Management” The workshop will provide a comprehensive review of the most recent developments in the field. Topics include, mechanisms, pathways of AKI and its effects on other organs, biomarkers and their applications and the findings from the recent clinical trials. We hope that this course will provide participants an opportunity to interact with experts in the field and emerge with a better understanding of this rapidly evolving area.

2010 Conference Topic Highlights:

- **Organ Dysfunction in the Critically Ill Patient**  
  Emerging Concepts Organ Cross-talk, Sepsis, Mitochondrial Dysfunction
- **Acute Kidney Injury (AKI)**  
  Pathophysiology, Microcirculation, Role of T-Reg Cells, Inflammation, Hepatorenal Syndrome
- **Controversies in Management of the Critically Ill Patient**  
  Fluid Management, Abdominal Compartment Syndrome, Liver support, Heart Failure, Non-Invasive Monitoring
- **Challenges and Controversies in Renal Support & CRRT**  
  When to Start and Stop, What Dose of Dialysis, Fluid Management, Type of Anticoagulant, Pharmacokinetics of Antimicrobials, Nutritional Support, Quality Measures, New Techniques
- **Special Sessions for Nurses and Allied Personnel**  
  Competency Assessment, Managing Change in the Work Force, and Addressing the Generational Gap

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.

On behalf of the organizing committee we are happy to welcome you to San Diego for our Fifteenth Anniversary of the CRRT Conference.

Ravindra L Mehta, MD  
Chairman, Organizing Committee

ACKNOWLEDGEMENTS of EDUCATIONAL GRANTS AND CORPORATE CONTRIBUTIONS

The Fifteenth International Conference on Continuous Renal Replacement Therapies would like to acknowledge the following educational grants and contributions:

- AMAG Pharmaceuticals
- Abbott
- Biosite Incorporated
- CytoPherx Incorporated

SUPPORT FOR FELLOWS IN TRAINING HAS BEEN MADE POSSIBLE BY GENEROUS EDUCATIONAL GRANTS FROM:

- Baxter Healthcare Corporation
- Fresenius Medical Care
- NxStage Medical Incorporated
FIFTEENTH INTERNATIONAL CONFERENCE ON
CONTINUOUS RENAL REPLACEMENT THERAPIES
CRRT 2010
Endorsed by
The International Society of Nephrology
Acute Kidney Injury Network

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IMPORTANT CONFERENCE DATES

On-site Registration Fees Begin February 18 - 27, 2010
Registration Opens (5:00-8:00 pm) Tuesday, February 23, 2010
Poster Mounting and Viewing February 23, 2010
Pre-Conference AKI Workshop - PW1 (see separate handout) February 24, 2010
Elective Hands-on Workshops February 24 and 27, 2010
HW1 Fundamentals of CRRT (full day) Wednesday, February 24, 2010
HW2 GAMBRO Nurses (No CME) Wednesday, February 24, 2010
HW3 GAMBRO Physicians (No CME) Wednesday, February 24, 2010
HW4 How to Deliver CRRT to Pediatric Patients, Wednesday, February 24, 2010
from Neonates to Adolescents
HW5 Fresenius Workshop (No CME) Saturday, February 27, 2010
HW6 Hemodynamic Monitoring and Use of Drugs Saturday, February 27, 2010
HW7 Essentials for Developing, Nurturing and Saturday, February 27, 2010
Growing a CRRT Program

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CONFERENCE DATES AND LOCATION
The inclusive dates for all scientific sessions of the FIFTEENTH INTERNATIONAL CONFERENCE ON RENAL REPLACEMENT THERAPIES (CRRT) are February 24 - 27, 2010. There will be elective workshops held on Wednesday, February 24 & Saturday, February 27, 2010. The Conference will be held at the Hotel del Coronado, 1500 Orange Ave., Coronado, California. Tel: (619) 435-6611, Fax: (619) 522-8262. www.hoteldel.com

Please note: Program Schedule may be subject to change

REGISTRATION INFORMATION
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 on Friday and Saturday, coffee breaks, receptions on Wednesday and Thursday and lunches on Thursday and Friday. Registration will begin on the evening of February 23, 2010. Poster Viewing will begin on Wednesday evening February 24, 2010. For additional registration times see the program.

REGISTRATION FEEs
Physicians/Other (MD, PhD, etc.)  $ 775
Nurses/Dieticians/Pharmacists/Residents*/Fellows* $ 590
*with letter of verification from department head
Industry $ 775

PRE-CONFERENCE AKI WORKSHOP
WEDNESDAY - Full Day Workshop $250*
PW1: Changing Paradigms in Acute Kidney Injury: From Mechanisms to Management
Wednesday, February 24  8:00am-6:00pm (includes lunch, AM & PM breaks, and Wed. Reception)
Acute Kidney Injury is a rapidly evolving area where several advances have been made in understanding the mechanisms and pathways of AKI and its effects on other organs. Recent identification of biomarkers has provided new tools and techniques to characterize this disorder. This pre-course workshop will provide a comprehensive review of the most recent developments in the field and describe emerging knowledge from basic and translational research. Results from clinical trials will be discussed to define the best strategies for effective management of patients and define the criteria for future studies.

* A $50 discount will be given to attendees that register for the CRRT Conference. To receive the discount you must sign up for this workshop at the same time you register for the conference (valid for full price registrations only.)

See separate AKI hand-out for full schedule

ELECTIVE HANDS-ON WORKSHOPS
A variety of elective “hands-on” workshops are available and will have limited enrollment to maximize opportunity for each participant.

WEDNESDAY - Full Day Hands-On Workshop (limited enrollment) $175
Wednesday, February 24  8:00am-5:15pm (includes lunch, AM & PM breaks)
HW1: 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 $105 each
(morning) - Wednesday, February 24  8:00am-12:30pm (includes lunch & break)
HW2: Gambro/Nurses  Optimize CRRT Patient Care with the Prismaflex System
Synopsis: This workshop is designed for nurses who support CCRT therapy and will offer a practical and systematic approach to managing patients on CRRT. The workshop will include patient case studies, order set review, P.A.C.E. methodology and hands on Prismaflex Circuit management. (No CME)

AFTERNOON - Wednesday, February 24  1:30pm-5:30pm (includes lunch & break)
HW3: Gambro/Physicians  Prescribing and Delivering CRRT with the Prismaflex System
Synopsis: This workshop will offer CRRT prescribing physicians a consolidated body of evidence for prescribing and delivering CRRT with Gambro's Prismaflex System. The workshop will include lecture, order set review and discussion by CRRT physician prescribers. (No CME)
GENERAL INFORMATION

AFTERNOON - Wednesday, February 24  1:30pm-5:15pm  (includes 12:45 lunch & break)

HW4: How to Deliver CRRT to Pediatric Patients, from Neonates to Adolescents
This workshop will focus upon the practical aspects of care including clinical program development, discussion of vari-
ous models of ICU and Nephrology nursing care and hands on machine setup and operation.

SATURDAY - Post Conference Hands-On Workshops  $105 each
(limited enrollment)
Saturday, February 27  2:00pm-5:30pm  (includes 1:00pm lunch & PM break )
HW5: Fresenius Workshop “SLED, CRRT and IHD with the 2008K2”  (No CME)
Learn how to use the Fresenius system for SLED, CRRT and IHD for acute renal failure.

HW6: Hemodynamic Monitoring and Use of Drugs
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 in critically ill patients.

HW7: Essentials for Developing, Nurturing and Growing a CRRT Program
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.

GUEST FEE $185
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.

SOCIAL ACTIVITIES
Poster Review and Reception  Wednesday, February 24, 2010  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 25, 2010  6:15pm-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 $35  Child $14
Thursday, February 25, 2010  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. 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, Balboa Park, Star of India, Whaley House... and much, much more!

San Diego Attractions and Golf in the San Diego Area
Information on discounted attraction tickets including the Zoo and Seaworld, dining suggestions, reserva-
tions, city tours, driving directions or transportation is available from the hotel concierge. 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. 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. Please contact the
concierge for arrangements: concierge@hoteldel.com  Tel: 619-522-8196 or 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 January 24, 2010. 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 35.75 AMA PRA Category 1 Credits™. Physicians should only claim credit commensurate with the extent of their participation in the activity.

BRN: For the purpose of recertification, the American Nurses Credentialing Center accepts 35.75 AMA PRA Category 1 Credits™ issued by organizations accredited by the ACCME. For the purpose of relicensure, the California Board of Registered Nursing accepts 35.75 AMA PRA Category 1 Credits™ (report up to 35.75 hours of credit and list "CME Category 1" as the provider number).

IMPORTANT NOTICE
CME credits do not apply to specific “Industry Workshops” and some Elective Hands-On Workshops. List includes:
- A01
- A09
- A17
- A25
- HW2
- HW3
- HW5

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.

DISCLOSURE STATEMENT
It is the policy of the University of California, San Diego School of Medicine to ensure balance, independence, objectivity and scientific rigor. All persons involved in the selection, development and presentation of content are required to disclose any real or apparent conflicts of interest. 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 persons are also required to disclose any discussions of off label/unapproved uses of drugs or devices. Persons who refuse or fail to complete this form will be disqualified from participating in the CME activity.

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.
PROGRAM

INDUSTRY WORKSHOPS
Each of these three Industry Workshops will be presented twice in different time slots. They run simultaneously with the standard workshops (see corresponding Group numbers on pages 9 and 12.) Workshops with two presenters will spend 45 minutes in each session (I & II.)

PLEASE NOTE:
CME Credits DO NOT apply to Industry Workshops.

THURSDAY MORNING

GROUP 1  SIMULTANEOUS WORKSHOPS  (see page 9 for full group list)
8:30-10:00  A01  CRRT Systems I (C,N,AP)
Spreckles A/B & I.  B. Braun Diapact
Spreckles C/D  II. Gambro’s Prismaflex & MARS
Device demonstrations of features, setup, operation, monitoring and discontinuation.

8:30-10:00  I09  CRRT Systems II (C,N,AP)
York/Kent I.  Fresenius - CRRT/SLED Systems
Device demonstrations of features, setup, operation, monitoring and discontinuation.

GROUP 2  SIMULTANEOUS WORKSHOPS  (see page 9 for full group list)
10:15-11:45  A09  CRRT Systems III (C,N,AP)
Spreckles A/B & I.  NxStage Therapy System
Spreckles C/D  II. Baxter Healthcare - Aquarius System
Device demonstrations of features, setup, operation, monitoring and discontinuation.

FRIDAY AFTERNOON

GROUP 3  SIMULTANEOUS WORKSHOPS  (see page 12 for full group list)
2:30-4:00  A17  CRRT Systems I (C,N,AP)
Spreckles A/B & I.  B. Braun Diapact
Spreckles C/D  II. Gambro’s Prismaflex & MARS
Device demonstrations of features, setup, operation, monitoring and discontinuation.

2:30-4:00  I25  CRRT Systems II (C,N,AP)
Bayside Strand I.  Fresenius - CRRT/SLED Systems
Device demonstrations of features, setup, operation, monitoring and discontinuation.

GROUP 4  SIMULTANEOUS WORKSHOPS  (see page 12 for full group list)
4:30-6:00  A25  CRRT Systems III (C,N,AP)
Spreckles A/B & I.  NxStage Therapy System
Spreckles C/D  II. Baxter Healthcare - Aquarius System
Device demonstrations of features, setup, operation, monitoring and discontinuation.
PROGRAM
TUESDAY, FEBRUARY 23
5:00-8:00pm Conference Registration Open Upper Grande Hall Foyer

WEDNESDAY, FEBRUARY 24
7:00am Conference Registration Open Upper Grande Hall Foyer

PRE-CONFERENCE AKI FULL DAY WORKSHOP
8:00am-6:00pm PW1: Changing Paradigms in Acute Kidney Injury:
From Mechanisms to Management

See separate hand-out for schedule and more information

ELECTIVE FULL DAY WORKSHOP
8:00am-5:15pm HW1: Fundamentals of CRRT

See page 4 for description

8:00-8:30 Operating Principles of CRRT William Clark, MD
8:30-9:00 Access/Membrane and Circuit Miet Schetz, MD, PhD
9:00-9:30 Anticoagulation Ashita Tolwani, MD
9:30-10:00 Solute Control and Dose William R. Clark, MD
10:00-10:15 Discussion
10:15-10:30 Coffee Break
10:30-11:00 Solutions Ashita Tolwani, MD
11:00-11:30 Fluid Management Ravindra L. Mehta, MD
11:30-12:00 Drug Management Bruce A. Mueller, PharmD
12:00-12:30 Patient Selection & Outcomes Jorge Cerda, MD, FACP, FASN
12:30-12:45 Discussion
12:45-1:30 Lunch Hosted by Conference in the Garden Patio
1:30-2:00 Organizational & Financial Aspects Jorge Cerda, MD, FACP, FASN
2:00-2:30 Pharmacy Support Linda Awdishu, PharmD, MAS
2:30-3:00 Nursing Issues Eileen Lischer, MA, BSN RN
3:00-3:15 Discussion
3:15-3:30 Coffee Break
3:30-4:15 Common ‘Myths and Misunderstandings’ w/ CRRT
Interactive Question and Answer Session (Panel)
Linda Awdishu, PharmD, MAS
William R. Clark, MD
Eileen Lischer, MA, BSN RN
Miet Schetz, MD, PhD
4:15-5:15 CRRT Machine Comparisons Jorge Cerda, MD, FACP, FASN
Ashita Tolwani, MD
5:15 Fundamentals Workshop Adjourns

ELECTIVE HALF DAY WORKSHOPS

WEDNESDAY MORNING
8:00am-12:30pm HW2: GAMBRO Workshop - Nurses
See page 4 for description
(for includes AM break & 12:45 lunch in the Garden Patio)
-CME Credits DO NOT APPLY-

WEDNESDAY AFTERNOON
1:30pm-5:30pm HW3: GAMBRO Workshop - Physicians
See page 4 for description
(for includes 12:45 lunch in the Garden Patio & PM break)
-CME Credits DO NOT APPLY-

1:30pm-5:15pm HW4: How to Deliver CRRT to Pediatric Patients, from Neonates to Adolescents
See page 5 for description
(for includes 12:45 lunch in the Garden Patio & PM break)

Steven R. Alexander, MD Amelia Allstead, BSN,RN,CNN
Cheryl Baker, BSN, RN Patrick D. Brophy, MD, FAAP, FRCPC
Timothy E. Bunchman, MD Helen Currier, BSN, RN, CNN
Stuart L. Goldstein, MD

6:00pm-7:30pm Reception and Poster Review - For All Workshop Participants
Lower Grande Hall
Workshops presented in a series are marked with a “1” for a primary discussion and “2” for a more complex or advanced discussion in the topic. Series workshops 1 and 2 can be taken subsequently (following each other) or independently (e.g. workshop 1 can be taken without taking workshop 2 and vice versa).

Industry Workshops are listed on page 7

8:30-10:00 SIMULTANEOUS WORKSHOPS GROUP 1
A01 See Page 7 for this listing
B02 Vascular Access /Membrane and Circuit (C,N,AP)
Coastal/Surf Principles of catheter choice, placement, maintenance, recognition and management of complications, selection and use of membranes for different applications, circuit design, setup and monitoring. Nigel Fealy, RN, MN, ACCCN Miet Schetz, MD, PhD
C03 Dialysis Dose Prescription and Delivery (C,N,AP)
Pacific/Tide Operational characteristics influencing solute removal in CRRT. William R. Clark, MD
D04 Critical Care Pharmacology: Vasopressors, and Ionotropes (A,N,AP)
Seabreeze and practical use of vasopressors, ionotropes, vasodilators in critically ill patients. Bruce A. Mueller, PharmD Andrew D. Shaw, MD FRCA FACC John Louis Vincent, MD PhD
E05 Biomarkers 1: Principles and Applications (C,N,AP)
Bayside/Strand Principles and classification of biomarkers and their application for diagnosis and management of diseases. Criteria for using biomarkers as surrogate end points. Kathleen Liu, MD Alan Maisel, MD Patrick T. Murray, MD
F06 Extracorporeal Techniques for Sepsis 1: Pathophysiology and Targets (A)
Stuart Pathophysiology of sepsis and rationale for use of extracorporeal support in treatment of sepsis. Experimental models for high permeability membranes, HVHF, HVHVF, and hybrid therapies. Patrick M. Honore, MD Dawei Liu, MD William L. Macias, MD PhD
G07 Competency Assessment in CRRT (C,N)
Palm Description on training requirements, core curriculum and skills assessment for CRRT care delivery. Patty Graham, RN, MS, CCRN, CS Eileen Lischer, MA, BSN RN
H08 Fluids and Solutions in the Critically III 1 (A)
Garden How to select and use colloids, crystalloids and blood products. Noel Gibney, MD Dileep N. Lobo, MD Timothy E. Miller, MB ChB
I09 See Page 7 for this listing

10:00-10:15 Coffee Break

10:15-11:45 SIMULTANEOUS WORKSHOPS GROUP 2
A09 See Page 7 for this listing
B10 Anticoagulation: Mechanisms and Techniques (C,N,AP)
York/Kent Anticoagulation regimens: Mechanisms, selection, prescription, monitoring and implementation. Michael Joannidis, MD Ashita Tolwani, MD
C11 Fluid Management (C,N,AP)
Pacific/Tide Principles of volume assessment, fluid removal and fluid regulation with different CRRT equipment. Ravindra L. Mehta, MD FACP Timothy E. Miller, MB ChB
D12 Critical Care Management: Nutrition Assessment and Delivery (I,N,AP)
Garden Pathophysiology of malnutrition in critically ill patients. Principles of nutritional assessment and support and adjustments for RRT. Oliver Joannides-Boyau, MD Dilip N. Lobo, MD John Louis Vincent, MD PhD
E13 Biomarkers 2: Application in AKI (I,N,AP)
Bayside/Strand Development and qualification of structural and functional biomarkers for AKI. Current performance characteristics and application for diagnosis, management and prognostication in AKI. Jose Bouchard, MD Prasad Devarajan, MD Patrick T. Murray, MD
F14 Liver and the Kidney 1: Principles of Hepatic Dysfunction (A,N)
Stuart Pathophysiology of hepatic failure and rationale for use of different techniques for extracorporeal support techniques (Cell based systems, MARS, CRRT) for hepatic support. Andrew Davenport, MD FRCP Rajiv Jalan, MD PhD
G15 Therapy Comparisons 1: IHD vs. SLED vs. CRRT vs. PD (C,N,AP)
Palm Comparisons of operational characteristics including anticoagulation, membranes, solutions and flows and approaches for ongoing and future research. Rajasekara Chakravarthi, MD, DNB Mark R. Marshall, MBChB, FRACP, MPhD
H16 Pediatric CRRT: The Basics (I,N,AP)
Seabreeze Technique requirement and application for use in children excluding neonates. Topics covered will include the epidemiology of pediatric acute kidney injury, and a focus on the pediatric CRRT prescription (anticoagulation, fluid composition, modality, and nutrition provision), as well as outcome in pediatric CRRT. Steven R. Alexander, MD David Askenazi, MD Geoffrey Fleming, MD Jordan M. Symons, MD Michael Zappitelli, MD, MSc
### Thursday Afternoon, February 25

**11:45am-1:15pm**

**Lunch Hosted by Conference Windsor Lawn** *(rain back-up - Carousel Room)*

New this year there are several lunch options to choose from. You may choose the opportunity to join your colleagues at a **Special Lunch Forum**, the customary conference luncheon on the ocean front, Windsor Lawn or choose one of the **Focus Group Luncheons** below.

Space is limited for the following luncheons:

#### Special Lunch Forum

**Title:** "Multigenerational Differences in the Workplace"

**Viceroy**

- **Michelle Deck**

The rapidly changing healthcare environment poses challenges in recruiting, nurturing, and retaining care providers. This session will focus on the evolving changes in the generational gap and its effects on the workplace. Topics will include a discussion of factors that are crucial in motivating people in different generations and how these can be utilized effectively to implement change and improve patient care.

#### Focus Group Luncheons

- **AngioDynamics - Targeted Renal Therapy for the Prevention and Treatment of Acute Kidney Disease.**
  - This focus group is targeted at nephrologists who often care for patients with acute kidney injury and can engage in a discussion about treatment options, what works, what is needed, and what protocols should be put in place at institutions to address these issues. Participants will also be asked to evaluate Targeted Renal Therapy and the suspected benefits, issues, and barriers to adoption.

- **Inverness Medical Innovations - The Emerging Utility of NGAL in the Intensive Care Unit.**
  - This focus group is targeted at clinical specialists who would like to learn more about the novel role of Neutrophil Gelatinase-Associated Lipocalin (NGAL) as an aid to the early diagnosis and prognosis of renal injury (AKI) in the ICU. Several speakers will present key data and opinions highlighting the diagnostic and prognostic utility of NGAL and its evolving role in therapeutic interventions that could prevent the progression of AKI in patients in the ICU.

### OPENING SESSION I: PATIENT CHARACTERISTICS

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| 1:15-3:30  | Upper Grande Hall   | Plenary 1 
MINI SYMPOSIAS 
Organ Dysfunction in the Critically Ill Patient: Emerging Concepts | Co-chairs: Lakhmir S. Chawla, MD 
William L. Macias, MD, PhD | Plenary 2 
MINI SYMPOSIAS 
Acute Kidney Injury (AKI): Pathophysiology |
| 1:15-1:20  |                    | Opening Remarks                                                       | Ravindra L. Mehta, MD FACP                    | Central Role of Activated Leukocytes in Acute Kidney Injury |
| 1:20-1:40  |                    | Sepsis and the kidney                                                 | Martin Matejovic, MD                          | Mechanisms of Repair from AKI: Leukocytes, Stem Cells, Growth Factors |
| 1:40-2:00  |                    | Increased Intra-abdominal Pressure: Does it Contribute to Multiorgan Failure? | Dileep N. Lobo, MS DM FRCS                    | Early Events in Clinical AKI: Does Endothelial Dysfunction Occur? |
| 2:00-2:20  |                    | Hepatic Dysfunction and the kidney in Critical Illness                | Rajiv Jalan, MD PhD                          | Post Cardiac Surgery AKI: Have We Made Progress? |
| 2:20-2:40  |                    | Mechanisms Underlying Distant Organ Dysfunction and High Mortality from AKI | Hamid Rabb, MD FACP                          | SPECIAL LECTURE Biomarkers in AKI: New Insights into Pathophysiology |
| 2:40-3:00  |                    | Near Infrared Spectroscopy for Non-invasive Monitoring of Regional Blood Flow | Dean Andrioupolous, MD                       | Panel Discussion |
| 3:00-3:30  |                    | SPECIAL LECTURE Current Management of Severe Sepsis and Septic Shock | Jean-Louis Vincent, MD                        | 6:00-6:15 Adjourn |
| 3:30-3:45  |                    | Panel Discussion                                                      | John Kellum, MD FACP                          | 6:15 | 6:15-7:30 EXHIBIT RECEPTION AND POSTER SESSION |
| 3:45-4:15  |                    | Coffee Break: Exhibits Open                                           |                                               |                            |
SESSION II: EMERGING CONCEPTS IN AKI AND CRITICAL CARE
All Plenary Sessions are in the Upper Grande Hall

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

7:30- 9:45  Plenary 3  MINI-SYMPOSIA
Co-chairs: Noel Gibney, MD  Peter A. McCullough, MD, MPH

7:30-7:50  Fluid Overload: Cause or Consequence of Critical Illness?  Dileep N. Lobo, MS DM FRCS
8:10-8:30  Perioperative Fluid Optimization  Timothy E. Miller, MB ChB
8:30-8:50  Optimizing Lung Function: Fluid Management in Respiratory Failure  Kathleen Liu, MD
8:50-9:05  Nursing Issues in Fluid Optimization  Nigel Fealy, RN MN ACCCN

9:05-9:30  Fluid Management in AKI: “Fill and Spill” or “Squeeze and Diurese?”  Jean-Louis Vincent, MD
9:30-9:45  Panel Discussion  Emil P. Paganini, MD

9:45-10:15  Coffee Break
FRIDAY AFTERNOON, FEBRUARY 26

2:30-4:00
SIMULTANEOUS WORKSHOPS
GROUP 3

A17 See Page 7 for this listing

B18 Drug Management in CRRT (C,N,AP)
Drug Dosing principles for critically ill patients and adjustments in extracorporeal support techniques.
Javier Maynar, MD
Bruce A. Mueller, PharmD
Miet Schetz, MD, PhD

C19 Starting and Stopping RRT for AKI: Principles and Practice (A)
Principles of determining when to start and stop RRT. Case based discussion of various approaches.
Emmanuel Burdmann, MD, PhD
Ravindra L. Mehta, MD, FACP
Paul Palevsky, MD

D20 KDIGO Guidelines for AKI 1: Definition and Prevention (C,N,AP)
Description of KDIGO evidence based guidelines for management of Acute Kidney Injury due to be released in 2010. Interaction included to discuss the basis of recommendations and to provide feedback to the members of the KDIGO team.
Michael Joannidis, MD
John A. Kellum, MD
Patrick T. Murray, MD

Discussion of the recent developments in ensuring quality and patient safety for acute dialysis delivery.
Nigel Pealy, RN, MN, ACCCN
Eileen Lischer, MA, BSN RN
Mark R. Marshall, MBChB, FRACP, MPH

F22 Heart Failure and Cardiorenal Syndrome 1: Pathophysiology (I)
Pathophysiology, recognition and management strategies for cardiac and renal failure in the critically ill patient.
Alan Maisel, MD
Peter McCullough, MD

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.
Patrick M. Honoré, MD
H. David Humes, MD
Martin Matejovic, MD

H24 Fluids and Solutions in the Critically Ill 2: Solutions for CRRT (I,N,AP)
Currently available solutions for CRRT and dialysis. Practical approaches for achieving metabolic, acid-base, electrolyte and divalent ion control with RRT techniques.
Andrew Davenport, MD, FRCP
Ashita Tolwani, MD

I25 See Page 7 for this listing

4:00-4:30
Break

4:30-6:00
SIMULTANEOUS WORKSHOPS
GROUP 4

A25 See Page 7 for this listing

B26 Building Bridges Leading the Generations (I,N,AP)
Determinants of change in the work environment. Tools and strategies for dealing with the generational gap, conflict resolution and implementing effective change.
Michele L. Deck

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.
Oliver Joannes-Boyau, MD
Javier Maynar, MD
David M. Ward, MD, FRCP

D28 KDIGO Guidelines for AKI 2: Non-dialytic and Dialytic Management (C,N,AP)
Please see description for D20.

E29 Ensuring Patient Safety and Quality Measures for RRT in AKI 2: Dialysis Adequacy, Monitoring, Nursing Issues (C,N,AP)
Discussion of the principles of a systems based approach to implementing and monitoring quality to reduce errors in therapy prescription and delivery.
Linda Awdishu, PharmD, MAS
Eileen Lischer, MA, BSN RN
Ravindra L. Mehta, MD, FACP

F30 Heart Failure and Cardio-renal Syndrome 2: Management Strategies and Case Studies (A,N)
Technical considerations, practical application and results of different methods to treat heart failure and cardio-renal syndrome.
Alan Maisel, MD
Emil P. Paganini, MD

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.
Andrew Davenport, MD
Rajiv Jalan, MD, PhD

H32 CRRT in the New Born: Principles and Application Nursing Issues in Neonatal CRRT (C,N,AP)
Pathophysiology and management of metabolic disorders, neonatal AKI and intoxications with CRRT.
David Askennazi, MD
Timothy E. Bunchman, MD

6:00 Adjourn
Free Evening
SESSION III: TECHNIQUE CHARACTERISTICS

7:25-7:30 Announcements

7:30-7:50 Plenary 5
MINI-SYMPOSIA
Emerging Concepts in AKI
Co-chairs: Stuart L. Goldstein, MD
Bruce A. Molitoris, MD
7:30-7:50 Do Episodes of Oliguria Reflect Acute Kidney Injury in Critically Ill Patients?
Etienne Macedo, MD
7:50-8:10 AKI in Disasters: Lessons from Haiti
Noel Gibney, MD
8:10-8:30 Acute Kidney Injury and Chronic Kidney Disease
Lakhmir Chawla, MD
8:30-8:50 “Adding Insult to Injury”: The NCEPOD Findings and Recommendations
Andrew Lewington, MD

SESSION IV: FUTURE TRENDS IN CRRT AND CRITICAL CARE

10:30-1:00 Plenary 6
MINI SYMPOSIA
Emerging Strategies in AKI and Extracorporeal Support
Co-chairs: Bruce A. Mueller, PharmD
Miet Schetz, MD, PhD
10:30-10:50 Early Clinical Evaluation of a Novel Cytopheretic Membrane Device (SCD) in Patients with Acute Kidney Injury
H. David Humes, MD
10:50-11:05 H1N1 and the Kidney
Noel Gibney, MD
11:05-11:20 CRRT for Non-AKI Indications in Peds Stem Cell/Cancer Patients
Joe DiCarlo, MD
11:20-11:35 Uric Acid Oxidase for Treatment of AKI: A New Pharmacologic Option?
Timothy Bunchman, MD

Elective Half Day Workshops - HW5, HW6 & HW7

1:00-2:00 Lunch Hosted by Conference for Workshop Participants - Carousel Room

2:00-5:30 Concurrent Elective Hands-On Workshops See page 4 for descriptions (includes 1:00PM lunch & PM break)

Seabreeze
HW5: Fresenius Workshop “SLED, CRRT and IHD with the 2008K2”
-CME Credits DO NOT APPLY-

Point
HW6: Hemodynamic Monitoring and Use of Drugs
Lakhmir S. Chawla, MD, Bruce A. Mueller, PharmD & Timothy Miller, MB ChB

Coastal/Surf
HW7: Essentials for Developing, Nurturing and Growing a CRRT Program
Linda Awdishu, BSc Pharm D, Jorge Cerda MD, Nigel Fealy,RN & Eileen Lischer, RN

5:30 Workshops Adjourn
CRRT Applications

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Bum Soon Choi, MD

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S. Renee Ellwell, RN

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Dehua Gong, MD

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Daxi Ji, MD

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Seong Min Kim, MD

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Young Soo Kim, MD

Poster 7
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Jung Sub Kim, MD

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Hari Krishna Marri, MD

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Eileen Lischer, MA BSN RN

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Joon Seok Oh, MD

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Young SeoPark, MD, PhD

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Pablo B. Tapia, MD

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Steven J. Wagner, MD

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Jiandong Wei, MD

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Norio Hanafusa, MD, PhD

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Hirotugu Kitayama, MD

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Etienne Macedo, MD

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Etienne Macedo, MD

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ACKNOWLEDGEMENT of EXHIBITORS

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