THE 23RD INTERNATIONAL CONFERENCE ON
ADVANCES IN CRITICAL CARE NEPHROLOGY
Endorsed by the
INTERNATIONAL SOCIETY OF NEPHROLOGY
AND
ACUTE KIDNEY INJURY NETWORK

AKI & CRRT
2018
March 6-9, 2018
San Diego, California
Manchester Grand Hyatt

Provided by
CRRT, INC.

crrtonline.com

Abstract Deadline: Dec. 12, 2017


Dear Colleague,

We would like to invite you to join us for the upcoming 23rd International Conference on Advances in Critical Care Nephrology - AKI & CRRT 2018.

The CRRT Conference is a unique forum that continues to provide a comprehensive coverage of the rapidly developing field of Critical Care Nephrology, AKI and CRRT. It highlights the recent advances in our understanding of pathophysiology of critical illness, AKI, emerging strategies in the management of sepsis, multi-organ failure, and the use of biomarkers to assess and manage patients with renal dysfunction. This year's program presents exciting new developments and evidence for assessing critically ill patients with imaging techniques, new definitions of AKI in liver disease, cardiorenal syndrome and key strategies to improve renal recovery. Experts will cover a wide-ranging review of the most recent technical advances in CRRT and the appropriate utilization of these techniques. Results of recently completed trials for prevention of contrast induced AKI, management of shock, removal of endotoxin in sepsis and the ISN AKI 0by25 initiative pilot study will be presented. A mix of invited lectures, controversies, interactive workshops, tutorials, poster sessions, panel discussions and meet the expert sessions are planned to continue the tradition of multidisciplinary interactions throughout the conference.

Again this year we are offering two Pre-Conference workshops: the UAB/UCSD O’Brien AKI Symposium titled Changing Paradigms in Acute Kidney Injury: From Mechanisms to Management covering the most recent advances in basic and translational research and their applications to clinical care. The Practice Based Learning for CRRT workshop offers intercative case based training to optimize the delivery of CRRT for nurses and physicians.

2018 Conference Topic Highlights:

• Meet The Expert Sessions
  Interact and Learn from Experts on How to Evaluate and Manage ICU Patients with Difficult Clinical Problems

• Organ Dysfunction in the Critically Ill Patient
  Emerging Concepts in Organ Cross-talk, Sepsis, Liver and Cardiac Dysfunction, Infections

• Results from ADQI Conferences on AKI Following Cardiac and Vascular Surgery
  Updated consensus recommendations on pathophysiology, risk assessment and management of patients with AKI post surgery

• Controversies in Management of the Critically Ill Patient
  Diuretic Use for AKI, Drug Induced Kidney Disease, RRT for End Stage Liver Disease, Protecting the Kidney; Results from Trials in AKI and Sepsis

• Challenges and Controversies in Renal Support & CRRT
  When to Start and Stop, Co2 Removal, RRT for Sepsis, Drug Dosing and Hybrid Therapies

• Biomarkers for Management of Critically Ill Patients
  Risk Stratification, Surveillance, Diagnosis, Targeted Intervention and Prognosis

• Special Sessions for Nurses and Allied Personnel
  Skills Assessment, Workshops on CRRT, Plasma Exchange, Establishing Quality Metrics for RRT in AKI, Post Intensive Care Syndrome and Difficult Conversations with Patients

As always, we are working 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 23rd time.

Ravindra L Mehta, MBBS MD DM  FACP  FASN
Chairman, Organizing Committee
ORGANIZING COMMITTEE

CHAIRMEN
Ravindra L. Mehta, MBBS, MD, DM, FACP, FRCP(UK)

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Emmanuel A. Burdmann, MD, PhD

AUSTRALIA
Zoltan Endre, MD, PHD

MALAYSIA
Bakleong Goh, MD

IMPORTANT CONFERENCE DATES

Abstract Submission (see page 5) 
Online Registration Begins
Deadline for Receipt of Abstracts (see page 5)
Notification of Abstract Acceptance
Deadline for Early Bird Registration
Hotel Reservation Deadline
On-site Registration Fees Begin
Pre-Conference Elective AKI Symposium - PW1 (see page 4)
Pre-Conference Elective CRRT Workshop - PW2 (see page 4)
Poster Mounting and Viewing
Plenary and Standard Workshop Sessions

Now Open
November 1, 2017
December 12, 2017
January 5, 2018
January 19, 2018
February 3, 2018
February 17, 2018
March 6, 2018
March 6, 2018
March 6, 2018
March 6, 2018
March 7-9, 2018
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Li Yang, MD
Beijing, CHINA

Alex Zarbock, MD
Munster, NR GERMANY
Visit our website for the most current program information, abstract submission, online registration (reg. form download available) and online hotel reservations. www.crrtonline.com

CONFERENCE DATES AND LOCATION
The inclusive dates for all scientific sessions of the TWENTY THIRD INTERNATIONAL AKI & CRRT CONFERENCE are March 6-9, 2018. The Conference will be held at the Manchester Grand Hyatt, 1 Market Place, San Diego, CA 92101, Tel: (619) 232-1234. Online Reservations are available directly with the hotel by using Hotel Reservations link on the conference website. 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 (online registration required, printable form available). All participants must register and pay the appropriate fee. Fee includes access to all Plenary Sessions, Standard Workshops, Exhibit Area, Welcome Reception & Poster Sessions (Tue.), Exhibit Reception (Wed.), CME Accreditation, Conference Syllabus (digital media), two Lunches (Wed. & Thur.), two Breakfasts (Wed. & Thur.) and all conference coffee breaks. Conference Registration Fee DOES NOT include Elective Events on Tuesday. (see page 4 & 5 for list). Registration check-in will begin on Monday, March 5, 2018. Poster Viewing will begin on Tuesday evening March 6, 2018. For additional registration times see the program.

<table>
<thead>
<tr>
<th>REGISTRATION FEES</th>
<th>Early Bird</th>
<th>Pre-Registration</th>
<th>On-Site Registration</th>
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<tbody>
<tr>
<td>Physicians/Other (MD, PhD, etc.) With Multimedia Package</td>
<td>$ 730</td>
<td>$ 830</td>
<td>$ 895</td>
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<tr>
<td>Nurses/Dieticians/ Pharmacists/Residents*/Fellows* With Multimedia Package</td>
<td>$ 530</td>
<td>$ 630</td>
<td>$ 675</td>
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<tr>
<td>Industry With Multimedia Package</td>
<td>$ 730</td>
<td>$ 830</td>
<td>$ 895</td>
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<td>*with letter of verification from department head</td>
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PRE-CONFERENCE ELECTIVE SYMPOSIUM & WORKSHOP FEES

| PW1 AKI, PW2 CRRT | $ 240 |
| PW1 with Multimedia Package | $ 365 |
| PW1 AKI without full conference reg. PW1 only with Multimedia Package | $ 270 |
| $ 395 |

MEET THE EXPERT BREAKFAST SESSIONS (with registration) $50
These breakfast sessions (choose from 2 on Wed., Thurs. & Fri.) allow participants to meet and interact with internationally renowned experts in an informal setting over breakfast. This is an excellent opportunity to ask questions, learn how these experts manage patients, get guidance for projects and network. See pages 10, 13 and 15 for titles and faculty.

ONLINE MULTIMEDIA PRESENTATIONS (with registration) $200
We will record all 7 PLENARY SESSIONS and select symposia for post-conference viewing online. Add this package to your registration to review presentations in a state-of-the-art format that includes streaming audio and video, and synchronized slides. Please visit the conference website for details regarding the presentations & free demo lecture.
AKI SYMPOSIUM  (see page 3 for fees)

Presented by UAB/UCSD O’Brien Center for AKI Research
TUESDAY, MARCH 6 - Full Day*  (limited enrollment, full program on page 8)
CRRT Conference Attendance is NOT Required for this Symposium. See website for details!

PW1: Changing Paradigms in Acute Kidney Injury:
From Mechanisms to Management
7:55am-5:30pm (includes 12:15 lunch, AM & PM breaks)
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 will provide a comprehensive review of the most recent developments in the field and describe emerging knowledge from basic and translational research applicable to clinical care.
* A $30 discount will be given to attendees that register for the CRRT Conference. To receive the discount you must sign up for this symposium at the same time you register for the conference.

CRRT WORKSHOP  (see page 3 for fees)
TUESDAY, MARCH 6 - Full Day  (limited enrollment, full program on page 9)

PW2: Practice Based Learning in CRRT: The Science and the Art
7:45am-5:30pm (includes lunch, AM & PM breaks - CRRT Conference Registration Required)
This interactive workshop is designed to provide participants with the knowledge and understanding for decision making for the effective utilization of CRRT to manage critically ill patients. The workshop will utilize case based discussions and demonstrations to illustrate the underlying concepts for application of CRRT. All participants will be provided access to digital media encompassing a core curriculum of articles and power-point lectures on CRRT, accessible online, prior to the meeting to enable self study.

The morning session will utilize patient cases to describe the key principles of CRRT and its application. Afternoon sessions for physicians and nurses, in separate tracks, will demonstrate the key features of CRRT machines. Physicians will be guided on the machine user interface and the strategies for prescribing dose for solute and fluid management, adjustments in therapy parameters, recognition and management of complications. Nurses and technicians will learn how to set up CRRT machines for different modalities, maintain circuit patency, deliver the prescribed dose for solute and fluid management and recognize different alarm conditions and troubleshooting and charting and monitoring of the therapy. At the end of this workshop participants will have an improved understanding of how to utilize CRRT for optimizing renal support. A quiz will be administered pre-and post- course for assessment.

SOCIAL ACTIVITIES  (Non-CME)

Welcome Reception and Poster Review  Tuesday, March 6, 2018  5:30-7:00pm
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. Light appetizers & refreshments will be served.

Exhibit Reception and Poster Session  Wednesday, March 7, 2018  6:00-8:00pm
Meet and interact with CRRT poster presenters while you review the latest in equipment and products. This is a great opportunity to network and meet your colleagues. Light appetizers & refreshments will be served.

ADDITIONAL OPTIONAL SESSIONS  (Non-CME)

INDUSTRY LUNCH SYMPOSIUM  Thursday, March 8  12:30-2:00pm
TBD - TBD

Seating LIMITED for these sessions
DEADLINE FOR RECEIPT OF ABSTRACTS: December 12, 2017

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 will be published and distributed electronically in the CRRT Conference Syllabus. Hardcopy syllabus booklets will be available for purchase during the conference. Abstracts and digital posters (if submitted) will also be published online at: www.crrtonline.com
6. Notification of acceptance will be mailed by January 5, 2018.
7. Selected abstracts will be eligible for digital poster discussions with experts on Tuesday, March 6 and 7 from 5:30-7:00pm. Details will be provided with notification of acceptance.

CONTENT OF THE ABSTRACT
1. Abstracts are limited to 2500 characters. Please see sample on website: www.crrtonline.com/conference/
2. Abstract Body: purpose of the study, methods used, summary of the results and conclusion reached.
3. Author list is limited 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) Epidemiology and Outcomes from AKI, b) Research in AKI (Basic, translational, clinical including clinical trials), c) RRT Technique Characteristics, d) RRT Applications and Targeted Interventions, e) New Technology, f) RRT Research, g) Nursing Issues (education, training, care delivery)
9. Abstracts will be published as submitted. Proof and edit your submission accordingly.

TRAVEL AND REGISTRATION AWARDS
Fellows in an accredited training program, nurses and allied professionals who submit a poster abstract to be presented at the CRRT Conference by December 12 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 session on Tuesday, March 6 and Wednesday, March 7, 2018.
1. Registration Awards - Conference reg fee. includes plenary sessions and standard workshops.
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 abstracts will be awarded recognition awards.

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 CRRT conference at the Poster Sessions: Tuesday, March 6 and Wednesday, March 7, 2018.
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 request for financial support on the CRRT website abstract application form.
5. Fellows must attend an offered workshop.

SUBMISSION
1. Notification of acceptance will be mailed by January 5, 2018 with additional information regarding poster dimensions, digital file submission 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
LEARNER OBJECTIVES
The CRRT conference provides a comprehensive review of advances in clinical care, research and technology in critical care medicine with a focus on the kidney and renal support techniques. The conference is designed to facilitate interdisciplinary interactions among caregivers involved in the management of patients in intensive care units. Physicians, nurses, pharmacists, nutritionists and other allied personnel from industry have opportunities to learn from each other. The conference utilizes a combination of invited lectures; case based small group workshops, debates, hands on interactive and simulation based workshops. Attendees have an opportunity to interact with the faculty through focused panel discussions and symposia.

At the end of this conference attendees should be able to:
1. Describe the recent advances in the pathophysiology and management of critically ill patients with a focus on sepsis, multi-organ failure, infections, lung and kidney injury in different settings.
2. Discuss the best ways to identify, treat and follow up patients with acute kidney injury (AKI) resulting from different causes utilizing biomarkers, imaging and lab studies and applying educational tools to raise awareness of AKI.
3. Describe the principles and practice of renal replacement techniques including CRRT, IHD and plasma exchange and demonstrate how to setup and use these techniques for managing critically ill patients.

ACCREDITATION STATEMENT
This activity is currently being reviewed by an accrediting organization.

NEEDS ASSESSMENT
Several sources of information were utilized to identify the practice gaps prompting this educational conference. These include literature review of multiple publications in Pubmed, publications from the American Society of Nephrology, International Society of Nephrology, ERA-EDTA, Critical care societies and published KDIGO and European Best Practice and NICE guidelines and feedback from participants and faculty at prior CRRT conferences and discussions with the international organizing committee.

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 & Preventive Medicine, Geriatrics, and Internal Medicine.
CME INFORMATION

PENDING CME CREDIT

The following Workshops, Plenary Sessions and Electives are being qualified for CME Credit:

**TUESDAY, MARCH 6, 2018**
ELECTIVES: PW1 Changing Paradigms in AKI, PW2 Practice Based Learning in CRRT

**WEDNESDAY, MARCH 7, 2018**
MEET THE EXPERT SESSIONS, BREAKFAST SYMPOSIA, LUNCH SYMPOSIA
SESSION I: PATIENT CHARACTERISTICS
GROUP 1 - WORKSHOPS, GROUP 2 - WORKSHOPS

**THURSDAY, MARCH 8, 2018**
MEET THE EXPERT SESSIONS, BREAKFAST SYMPOSIA, LUNCH SYMPOSIA
GROUP 3 - SIMULTANEOUS STANDARD WORKSHOPS
SESSION II: CONTROVERSIES IN CRITICAL CARE NEPHROLOGY
SESSION III: EMERGING CONCEPTS IN AKI AND RRT

**FRIDAY, MARCH 9, 2018**
MEET THE EXPERT SESSIONS
SESSION IV: IMPROVING OUTCOMES IN AKI
SESSION V: FUTURE TRENDS IN CRRT AND CRITICAL CARE

**FACULTY DISCLOSURE**

It is our policy 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 educational 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 disclose will be disqualified from participating.

**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.

**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 7, 2018. Allow 6-8 weeks for refund.

**CONTACT INFO**

RES/CRRT 2018
Phone: 858-272-1018
Fax: 858-272-7687
Email: crrt@res-inc.com
Website: www.crrtonline.com

**CONFERENCE OFFICE**

RES Seminars, 4425 Cass Street, Suite A
San Diego, CA 92109 USA
**PROGRAM**

**MONDAY, MARCH 6**

<table>
<thead>
<tr>
<th>Time</th>
<th>Event</th>
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<tbody>
<tr>
<td>4:00-7:00pm</td>
<td>Conference Registration Open</td>
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**TUESDAY, MARCH 6**

<table>
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<tr>
<th>Time</th>
<th>Event</th>
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<tr>
<td>7:00am-7:00pm</td>
<td>Conference Registration Open</td>
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**PRE-CONFERENCE AKI SYMPOSIUM - PW1 (CME Available)**

*(see page 3 for elective symposium and workshop fees)*

**Changing Paradigms in Acute Kidney Injury: From Mechanisms to Management**

*Presented by UAB/UCSD O’Brien Center for AKI Research*

**CRRT Conference registration is NOT required for this elective symposium. See page 4 for details.**

7:55 am  | Opening Remarks - Ravindra Mehta, MD

### PLENARY 1  Molecules, Mechanisms and Targets

*Co-Chairs: Anupam Agarwal, MD and Prabhleen Singh, MD*

<table>
<thead>
<tr>
<th>Time</th>
<th>Topic</th>
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<tbody>
<tr>
<td>8:00-8:20</td>
<td>HIF Signaling in AKI - Volker Haase</td>
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<tr>
<td>8:20-8:40</td>
<td>Cell Death Pathways in AKI - Andreas Linkermann</td>
</tr>
<tr>
<td>8:40-9:00</td>
<td>Iron and Innate Immunity in AKI: Promising Therapeutic Targets - Swami Sundararaman</td>
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<tr>
<td>9:00-9:20</td>
<td>Transcriptional Profiling Differentiates AKI Subtypes - Jonathan Barasch</td>
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<tr>
<td>9:20-9:40</td>
<td>Optogenetics in Understanding Mechanisms of AKI - Mark Okusa</td>
</tr>
<tr>
<td>9:40-10:00</td>
<td>Discussion</td>
</tr>
<tr>
<td>10:00-10:15</td>
<td>Coffee Break</td>
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</table>

### PLENARY 2  Of Mice and Men: Harmonizing Human and Animal AKI

*Co-Chairs: Paul Sanders, MD and Mark Okusa, MD*

<table>
<thead>
<tr>
<th>Time</th>
<th>Topic</th>
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<tbody>
<tr>
<td>10:15-10:35</td>
<td>Assessing Tubular Function During Injury and Repair from AKI - Volker Vallon</td>
</tr>
<tr>
<td>10:35-10:55</td>
<td>Lung-kidney Cross-talk: The Role of Mitochondrial Dysfunction - Laura Crotty-Alexander</td>
</tr>
<tr>
<td>10:55-11:15</td>
<td>Sepsis Induced AKI: Does Basic Science Match the Clinical Spectrum - John Kellum</td>
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<tr>
<td>11:15-11:35</td>
<td>Genomic Determinants of AKI - David Leaf</td>
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<tr>
<td>11:35-11:55</td>
<td>Intestinal Microbiota in AKI - Hamid Rabb</td>
</tr>
<tr>
<td>11:55-12:15</td>
<td>Discussion</td>
</tr>
<tr>
<td>12:15-1:15 pm</td>
<td>Lunch Hosted by Conference</td>
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### PLENARY 3  Bench to Bedside: Translating Discoveries to Clinical Care

*Co-Chairs: Mitch Rosner, MD and Kathleen Liu, MD*

<table>
<thead>
<tr>
<th>Time</th>
<th>Topic</th>
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<tbody>
<tr>
<td>1:15-1:35</td>
<td>3D Imaging of Human Biopsies in AKI - Pierre Dagher</td>
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<tr>
<td>1:35-1:55</td>
<td>Micro-RNA Profile After Major Trauma and the Incidence of AKI and MOF - John Prowle</td>
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<tr>
<td>2:15-2:35</td>
<td>Pre-implantation Kidney Biopsies as a Predictor for Delayed Graft Function - Roslyn Mannon</td>
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<tr>
<td>2:35-2:55</td>
<td>A Beta-HCG Derivative Modulates the Immune Response and Protects the Kidneys - Peter Pickkers</td>
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<tr>
<td>2:55-3:15</td>
<td>Discussion</td>
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<tr>
<td>3:15-3:30</td>
<td>Coffee Break</td>
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### PLENARY 4  Controversies in AKI

*Co-Chairs: Marlies Ostermann MD and Stuart Goldstein, MD*

<table>
<thead>
<tr>
<th>Time</th>
<th>Topic</th>
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<tbody>
<tr>
<td>3:30-3:50</td>
<td>Determining Renal Reserve in AKI - Claudio Ronco</td>
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<tr>
<td>3:50-4:10</td>
<td>Do AKI Biomarker Trajectories Improve AKI Prediction? - Rajit Basu</td>
</tr>
<tr>
<td>4:10-4:30</td>
<td>AKI in Real Time: Prediction, Prognostication, and Alerts - Francis Perry Wilson</td>
</tr>
<tr>
<td>4:30-4:50</td>
<td>Assessing Renal Recovery after AKI: Can Biomarkers Help? - Zoltan Endre</td>
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<tr>
<td>4:50-5:10</td>
<td>Clinical Trial Endpoints in AKI: What Should We Not Use? - Paul Palevsky</td>
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<td>5:10-5:30</td>
<td>Discussion</td>
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<td>5:30</td>
<td>Adjourn</td>
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<tr>
<td>5:30-7:00pm</td>
<td>Tuesday Evening Reception &amp; Poster Review - For All Conference Attendees</td>
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</table>
TUESDAY, MARCH 6

7:00am-7:00pm Conference Registration Open

PRE-CONFERENCE WORKSHOP - PW2 (CME Available)

(see page 3 for elective symposium and workshop fees)

Practice Based Learning in CRRT: The Science and the Art

This workshop is designed to provide participants with the knowledge and understanding for decision making for the effective utilization of CRRT to manage critically ill patients. The workshop will utilize case based discussions and demonstrations with CRRT machines to illustrate the underlying concepts for application of CRRT. Delegates will participate in group exercises to apply their learning for the management of complex cases. At the end of this workshop participants will have an improved understanding of how to utilize CRRT for optimizing renal support. A quiz will be administered pre-and post-course for assessment.

Learning Objectives:
- Describe the underlying concepts and review the process of decision making for prescribing and delivering CRRT
- Learn machine set-up for different modalities, alarm conditions, troubleshooting, monitoring and charting
- Utilize the tools provided to manage complex cases

Co-Chairs: Ashita Tolwani, MD and Jorge Cerda, MD

Faculty:

| 7:45-8:00am | Opening Remarks - (Tolwani, Cerda) |
| 8:00-8:30 | Pre-Test - (Tolwani, Cerda) |
| 8:30-9:00 | AKI and Patient Selection for CRRT - (Cerda) |
| 9:00-9:30 | CRRT: The Technical Questions - Modality & Dose - (Tolwani) |
| 9:30-10:00 | CRRT: The Technical Questions - Access, Membrane, Circuit - (Juncos) |
| 10:00-10:15 | Coffee Break |
| 10:15-10:45 | CRRT Outcome Studies: Survival and Renal Recovery - (Connor) |
| 10:45-11:15 | Drug Dosing - (Awdishu) |
| 11:15-12:00 | Interactive Case Discussion - (Tolwani, Cerda) |
| 12:00-1:00pm | Lunch Hosted by Conference for Workshop Participants |
| 1:10-4:00 | Machine Demonstrations |

Physicians Track

Session 1: Circuit, Anticoagulation and Monitoring
- Ashita Tolwani, Luis Juncos

Session 2: Dose / Fluid / Documentation / Recognizing and Managing Complications - Michael Connor

Session 3: Prescription / Order Sets / Decision Making / Coordination of Care - Jorge Cerda, Linda Awdishu

Session 4: Monitoring, Alarms and Connections with Other Therapies - Keith Wille, Nithin Karkala

Nursing Track

Session 1: Machine Priming, Circuit Set Up, Programming to Match Orders - Brenda Stefan, Teri Shell

Session 2: Implementing Therapy Delivery Dose Adjustments, Fluid Balance - Eileen Lischer

Session 3: Therapy Monitoring and Troubleshooting Alarms, Therapy Discontinuation - Noel Oabel

Session 4: Connectology with Hybrid Systems ECMO, ECCOR, Apheresis - Isagani Marquez

Pediatric Track

Modality Selection, Circuit Modifications, Therapy Dosing, Monitoring, Adjustments for Targeted Interventions
- David Askenazi, Stuart Goldstein, Theresa Mottles

| 4:00-4:15 | Coffee Break |
| 4:15-4:55 | Interactive Clinical Case (Decision Making) - (Tolwani and CRRT Faculty) |
| 5:00-5:30 | Post-test and Wrap-up |
| 5:30 | Adjourn |
| 5:30-7:00pm | Tuesday Evening Reception & Poster Review - For All Conference Attendees |
WEDNESDAY MORNING, MARCH 7

7:00am-4:30pm Conference Registration Open

7:00-8:15am MEET THE EXPERT - Breakfast Sessions (CME Available)
(elective sessions, choose one, see pg. 4 for fees/details)

Session 1 (ME1) - My Approach to Oliguria
Claudio Ronco and Jean Louis Vincent

Session 2 (ME2) - How Do I Manage the Obese Patient in the ICU?
Luis Forni and Michael Joannidis

7:00-8:15am BREAKFAST SYMPOSIA - (CME Available, Seating is LIMITED)
(continental breakfast provided by conference, selection made during registration)

Symposium A - Fluids and Vasopressor Management in the ICU
Lakhmir Chawla and Michael Connor (Moderators)
Michael Pinsky and Jean Louis Vincent (Discussants)
This symposium will highlight the practical aspects of fluid and vasopressor management in critically ill patients. Which drugs are now available, what is the goal for management, which drugs are available and how should they be selected, combined with other agents? How should they be monitored and adjusted?

Symposium B - Therapeutic Challenges in AKI and CKD: Managing Acid Base and Electrolyte Problems
Qi Qian, Andrew Lewington and TBD (Discussants)

SESSION I: PATIENT CHARACTERISTICS (CME Available)

8:20-10:30am Plenary 1 - MINI-SYMPOSIUM Organ Dysfunction in the Critically Ill Patient: Emerging Concepts
Co-Chairs: Andrew Shaw and Miet Schetz
8:20-8:30 Opening Remarks Ravindra L Mehta
8:30-8:45 Cardio- Pulmonary interactions Michael Pinsky
8:45-9:00 Lung - Kidney Cross Talk TBD
9:00-9:15 Shock in 2018: What Do We Know? Jean Louis Vincent
9:15-9:30 Pathophysiological Basis of AKI in Acute on Chronic Liver Failure Rajiv Jalan
9:30-9:45 The Brain and the Kidney Andrew Davenport
9:45-10:00 Towards Precision Medicine in Sepsis Patients: Are We Close? Peter Pickkers
10:00-10:30 SPECIAL LECTURE Adaptive Responses to High Altitude Inder Anand
10:30-11:00 Coffee Break Faculty Picture
WEDNESDAY MORNING, MARCH 7

STANDARD WORKSHOPS - GROUP 1 (CME Available for All)

Open to all participants - applicable to physicians, nurses and allied personnel

Codes: C= Core workshop, I = Intermediate, A = Advanced, N= Nurses, AP = Nurses & Allied Personnel

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).

Workshop Tracks
A: Biomarkers; B: CRRT Technique; C: Critical Care Topics ; D: Organ Support ; E: Nursing; F: Plasma Exchange, Hybrid Techniques and Pediatric Applications

<table>
<thead>
<tr>
<th>11:00am-12:30pm</th>
<th>GROUP 1 - SIMULTANEOUS STANDARD WORKSHOPS (choose one)</th>
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<tbody>
<tr>
<td>B02</td>
<td>Strategies for Optimizing the CRRT Circuit (Access, Anticoagulation and Programatic Assessments) (C,N,AP)</td>
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<td>C03</td>
<td>Assessment of Fluid Responsiveness, Hemodynamic Monitoring and Targets (C, N)</td>
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<tr>
<td>D04</td>
<td>Managing Patients with AKI and Liver Failure 1: Pathophysiology, Differential Diagnosis, Use of RRT, Liver Support, Strategies for Bridge to Transplant (C,N,AP)</td>
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<td>E05</td>
<td>Establishing and Maintaining Core Competencies for Nurses for CRRT (I,N,AP)</td>
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<tr>
<td>F06</td>
<td>Principles, Applications and Practical Issues of Plasma Exchange (C,N,AP)</td>
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<tr>
<th>12:30-2:00pm</th>
<th>LUNCH SYMPOSIAS - (CME Available, Seating is LIMITED)</th>
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<tbody>
<tr>
<td>W1</td>
<td>Emerging Strategies for Monitoring Changes in Renal Structure and Function</td>
</tr>
<tr>
<td>Moderators: TBD</td>
<td>Pro-Enkephalin - Peter Pickkers</td>
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<td>Kinetic GFR - Marlies Ostermann</td>
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<td>Contrast Enhanced Ultrasound - TBD</td>
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<td>W2</td>
<td>Fluid Management of the Critically Ill Patient: When to Use Crystalloids, Colloids and Blood Products</td>
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<tr>
<td>Moderators: TBD</td>
<td>Early Resuscitation - Jean Louis Vincent</td>
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<td>Optimization and Maintenance - Michael Joannidis</td>
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<td>Desacalation and Restoration of Homeostasis - Kianoush Kashani</td>
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<td>W3</td>
<td>Multiorgan Support Therapies (MOST): Are We Ready?</td>
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<tr>
<td>Moderators: Claudio Ronco and Eisei Noiri</td>
<td>Combined Renal and Respiratory Support - Zaccaria Ricci</td>
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<td>Liver Support (MARS) - Rajiv Jalan</td>
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<td>Apheresis and Sorbent Therapies - Patrick Honoré</td>
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<td>W4</td>
<td>Management of AKI in Sepsis: Challenges and Opportunities?</td>
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<tr>
<td>Moderators: TBD</td>
<td>Pathophysiology of AKI in Sepsis - John Kellum</td>
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<td>Role of hemodynamics in Sepsis - Michael Pinsky</td>
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<td>Therapeutic Targets and Interventions - TBD</td>
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Please note, these are the only lunch options provided on Wednesday
### STANDARD WORKSHOPS - GROUP 2 (CME Available for All)

**2:00-3:30pm**

**GROUP 2 - SIMULTANEOUS STANDARD WORKSHOPS** (choose one)

- **A07 Using Kidney Biomarkers for Guiding Drug Therapy (C,N,AP)**
  Case based discussions on pathophysiology of sepsis, rationale and strategies for fluid and vasopressor use for supportive therapy with the sepsis bundle. 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. (Endre, Gill, Barreto)

- **B08 CRRT for the Experienced User 1 (I,N,AP)**
  Interactive case based discussions on dose adjustments, monitoring for adequacy, modality selection and transitions in CRRT. (Claure, Ronco, Fleming)

- **C9 Starting, Transitioning and Stopping RRT for AKI: Science and Art (A)**
  Principles of determining when to start and stop RRT. Case based discussion of various approaches. (Macedo, Mehta)

- **D10 Managing Patients with Sepsis: Pathophysiology, Diagnosis, Assessment, Resuscitation, Drug Management, Techniques for Disease Modification, Organ Support and Renal Protection (C,N,AP)**
  Case based discussions on pathophysiology of sepsis, rationale and strategies for fluid and vasopressor use for supportive therapy with the sepsis bundle. 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. (Vincent, Honoré, Selewski)

- **E11 Quality Metrics in AKI and CRRT: Establishing Benchmarks (I,N,AP)**
  Determining quality metrics for AKI care delivery and RRT. What criteria, how should they be monitored and utilized to improve patient care and outcomes. (Tolwani, Selby, Ricci)

- **F12 Sorbent Based and Hybrid Therapies for Extracorporeal Support (I,N,AP)**
  Hemopurification systems for sepsis, immunoabsorption and PMMA. (Hirasawa, Honoré, TBD)

**3:30-4:00pm**

**Coffee Break**

### SESSION I: PATIENT CHARACTERISTICS - continued (CME Available)

**4:00-6:00pm**

**Plenary 2 - MINI-SYMPOSIA**

- **Acute Kidney Injury (AKI): Pathophysiology**
  Co-Chairs: TBD

  **4:00-4:15**
  **Does Hypoalbuminemia Cause AKI?**
  Michael Joannidis

  **4:15-4:30**
  **Pathogenesis of AKI in Heart Failure: Insights from Biomarker Studies**
  Patrick Murray

  **4:30-4:45**
  **Clinical Trajectories of AKI in Sepsis**
  Azra Bihorac

  **4:45-5:00**
  **TAVR and AKI: Cause or Consequence?**
  Kianoush Kashani

**5:00-5:15**

**Personalized BP Management to Optimize Organ Perfusion**
  Michael Pinsky

**5:15-5:30**

**Are SGLT-2 Inhibitors Risk Factors for AKI?**
  Peter McCullough

**5:30-6:00**

**SPECIAL LECTURE**
  **Precision Medicine and the Kidney**
  Robert Star

**6:00pm**

**Adjourn**

**6:00-8:00pm**

**EXHIBIT RECEPTION AND POSTER SESSION**
THURSDAY MORNING, MARCH 8

7:00am-4:30pm Conference Registration Open

7:00-8:15am MEET THE EXPERT - Breakfast Sessions (CME Available)
(elective sessions, choose one, see pg. 4 for fees/details)

Session 3 (ME3) - What do I do to Prevent Contrast Induced Renal Injury
Peter McCullough and Paul Palevsky

Session 4 (ME4) - How do I Manage Difficult Communications with Patients
Noel Gibney and TBD

7:00-8:15am BREAKFAST SYMPOSIA - (CME Available, Seating is LIMITED)
(continental breakfast provided by conference, selection made during registration)

Symposium C - Innovations in Caring for Patients with Hypo and Hypernatremia
TBD (Moderators)  TBD (Discussants)
This symposium will cover the pathophysiology of hypo and hypernatremia and discuss the practical issues for management of these disorders with novel agents

Symposium D - Imaging Techniques in Critically Ill Patients with Kidney Disease
TBD

STANDARD WORKSHOPS - GROUP 3 (CME Available for All)

8:15-9:45am GROUP 3 - SIMULTANEOUS STANDARD WORKSHOPS (choose one)

A13 Preventing AKI: From Surveillance to Intervention (C,N,AP)
This workshop will describe the current status of methods to identify patients at high risk for AKI and techniques for electronic surveillance. Strategies and tools for preventing AKI in different settings will be discussed. (Lewington, Kashani, Siew)

B14 CRRT for the Experienced User 2: Solutions, Fluid Removal, Fluid Balance, Monitoring (A)
Interactive case based discussion on strategies for fluid management in CRRT to achieve patient driven outcomes for fluid, electrolyte and acid base balance. (Prowle, Mehta)

C15 Drug Induced Kidney Injury: Mechanisms, Susceptibility, Diagnosis, Management Strategies (A,N)
Causes and consequences of drug induced nephrotoxicity, factors contributing to toxicity, strategies for preventing and managing toxicity. Drug dosing during dialysis techniques. (Awdishu, Schetz, Goldstein)

D16 Managing Heart Failure and Cardio-Renal Syndrome: Pathophysiology, Diagnosis, Drug Management, Ultrafiltration, Renal Support and RRT for Patients with Ventricular Assist Devices and Artificial Hearts (A,N)
Technical considerations, practical application and results of different methods to treat heart failure and cardio-renal syndrome including ultrafiltration techniques. (Maisel, Juncos, Anand)

E17 Patient Centered Care: Ensuring Quality of Life Outcomes for Patients on RRT in the ICU (I,N,AP)
Role of mobility and functional status assessments, patient and care giver communications, management of post intensive care syndrome. (Gibney, Davidson, TBD)

F18 Pediatric AKI and CRRT: How do I Care for My Patient and My Program? (I,N,AP)
Review and discussion of best practices to develop your pediatric AKI and CRRT program, identify and treat your young patients with AKI, and to assure delivery of high-quality care in the pediatric setting. (Ricci, Mottes, Symons)

9:45-10:15am Coffee Break

SESSION II: CONTROVERSIES IN CRITICAL CARE NEPHROLOGY (CME Available)

10:15am-12:30pm Plenary 3 - MINI SYMPOSIAS
Challenges in ICU Management
Co-Chairs: TBD

10:15-11:30 Functional Hemodynamic Management: Does it Work?
Michael Pinsky

10:15-11:30 The Hospital of Tomorrow
Jean Louis Vincent

10:15-11:30 SPECIAL LECTURE
Translating to Management Award
TBD

10:15-12:30 Top Abstract Awards
TBD

11:00-11:15 Albumin in Cirrhosis: More than Just a Fluid Expander - Rajiv Jalan
THURSDAY MORNING/AFTERNOON, MARCH 8

12:30-2:00pm LUNCH SYMPOSIA - (CME Available for T1, T2, T3 & T4, Seating is LIMITED) (lunch provided by conference, selection made during registration)

T1 - Personalized Care for AKI: Do Biomarkers Help?
Moderators: Kianoush Kashani and John Kellum
Discussants: Alex Zarbock, Claudio Ronco, TBD

T2 - Hydration and Kidney Health
Moderators: Raj Chakaravarthi and Marlies Ostermann
Pathophysiology of Water Handling by the Kidney - Qi Qian
Dehydration and AKI: Association or Cause? - Emmanuel Burdmann
Hydration Status and Kidney Disease: Does it Affect Progression? - TBD

T3 - AKI in the Patient with Cancer
Moderators: Steve Alexander and TBD
Pathophysiology and Mechanisms - Mitch Rosner
Imaging techniques and Risk for AKI - TBD
Renal Function Monitoring - Stuart Goldstein

T4 - Can Big Data Drive Better Care for AKI?
Moderators: Andrew Lewington and TBD
What is Big Data and Where Can You Get It - Scott Sutherland
Leveraging Big Data in AKI and CRRT - Sean Bagshaw
Using Big Data to Target Specific Treatments to Individual Patients - Perry Wilson

I1 - Additional Session Offered - Non-CME - See page 4 for details

SESSION III: EMERGING CONCEPTS IN AKI AND RRT (CME Available)

2:00-3:45pm Plenary 4 - MINI-SYMPOSIA Novel Strategies in AKI Management
Co-Chairs: Eisei Noiri and Andrew Lewington

2:00-2:15 Heart Failure and Kidney Disease: The KDIGO Controversies Conference
Peter McCullough

2:15-2:30 After the Fall: Post-AKI Outcomes and Potential Intervention Points
Edward Siew

2:30-2:45 Establishing Sub Phenotypes of AKI: The SIRE Approach
Ravindra Mehta

2:45-3:00 Predicting AKI in Acute Medical Patients; Is it Possible?
Luis Forni

3:00-3:15 We Do Not Need ‘AKI’ - Renal Failure is Part of MOF
Jean Louis Vincent

3:15-3:30 KDIGO UOP vs. SCr AKI Criteria, Does it Matter?
Scott Sutherland

3:30-3:45 Functional and Damage Biomarkers in Subclinical CKD
Zoltan Endre

3:45-4:15 Coffee Break

4:15-6:00pm Plenary 5 - MINI-SYMPOSIA Challenges and Controversies in Renal Support and CRRT
Co-Chairs: Ashita Tolwani and Stuart Goldstein

4:15-4:30 Blood Purification for Sepsis - Which Molecules Should we Remove?
Hiroyuki Hirasawa

4:30-4:45 Does Albumin Replacement Improve Fluid Removal and Reduce Intradialytic Complications?
Ravindra Mehta

4:45-5:00 Nutritional Changes Post AKI
Etienne Macedo

5:00-5:30 SPECIAL LECTURE Management of AKI Post Cardiac and Vascular Surgery:
Highlights from ADQI 19
Mitra Nadim

5:30-6:00 Viewpoints: Nephrologists Should be Consulted for all Cases of AKI in the ICU
No it is Not Required - John Kellum
We are Not Sure - Miet Schetz
Yes Absolutely - Claudio Ronco
Moderator - Paul Palevsky

6:00 Adjourn - Free Evening
FRIDAY MORNING, MARCH 9

7:00am-1:00pm  Conference Registration Open

6:45-8:00am  MEET THE EXPERT - Breakfast Sessions (CME Available)
(elective sessions, choose one, see pg. 4 for fees/details)
Session 5 (ME5) - How do I Implement a KDIGO Bundle in My ICU
  John Kellum and Alex Zarbock
Session 6 (ME6) - Forget the Evidence: When do I Use Diuretics?
  Lui Forni and Sean Bagshaw
I2 - Additional Breakfast Session Offered - Non-CME - See page 4 for details

7:30-8:00am  Coffee Served

SESSION IV: IMPROVING OUTCOMES IN AKI  (CME Available)

8:00-10:30am  Plenary 6 - MINI SYMPOSIAS

Global Burden of AKI
8:00-8:15  AKI and the Global Burden of Disease
  Jorge Cerda
8:15-8:30  CKD of Unknown Origin (CKDu): AKI in Disguise?
  TBD
8:30-8:45  Nationwide Epidemiology and Prognosis of Dialysis-requiring Acute kidney Injury (NEP-AKI-D) Study
  Vincent Wu
8:45-9:00  Detecting Kidney Disease in the Community: Do POC Tests Help?
  TBD
9:00-9:15  Obstetric AKI: Still a Problem
  TBD
9:15-9:30  Education and Training to Raise Awareness of AKI in the Community
  Raul Lombardi
9:30-9:45  The ISN 0by25 AKI Pilot Study: What Have We Learnt?
  Etienne Macedo
9:45-10:00  Tackling AKI: The Quality Improvement Study
  Nick Selby
10:00-10:30  SPECIAL LECTURE
  Dialysis Options in Low Resource Settings: Do We Have a Solution?
  TBD
10:30-11:00  Coffee Break

SESSION V: FUTURE TRENDS IN CRRT AND CRITICAL CARE  (CME Available)

11:00am-1:00pm  Plenary 7

MINI SYMPOSIAS
Emerging Strategies in AKI and Extracorporeal Support
Co-Chairs: TBD

11:00-12:30  Update from Ongoing and Late Breaking Trials
12 minutes each
1. Preventing Contrast Induced AKI: The PRESERVE Trial
   Paul Palevsky
2. Alkaline Phosphatase for Septic AKI
   Peter Pickkers
3. Angiotensin II in Shock the ATHOS2 Trial
   TBD
4. STAART AKI Trial Update
   Sean Bagshaw
5. Ketoacid Supplementation and Renal Recovery Post AKI
   Vivek Kumar
6. Endotoxin Removal for Sepsis: The EUPHRATES Trial
   TBD
12:30-12:55  Critical Care Nephrology: Literature Review
   Noel Gibney
12:55-1:00  Closing Remarks
   Ravindra L. Mehta
   Chairman
1:00pm  Conference Adjourns

Mark Your Calendar Now for 2018, 2019 & 2020!!

AKI&CRRT 2018  AKI&CRRT 2019  AKI&CRRT 2020
AKI & CRRT 2018
MARCH 6-9, 2018

Mark These Dates in Your Calendar Also!!!

AKI & CRRT 2019
FEB. 26 - MAR. 1, 2019

AKI & CRRT 2020
FEB. 25-28, 2020
AKI & CRRT 2018

Updates in ICU Medicine:
Controversies, Challenges and Solutions

MARCH 6-9, 2018
SAN DIEGO, CALIFORNIA