

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

Jointly Provided by

UC San Diego
SCHOOL OF MEDICINE

and

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 interactive 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

AKI&CRRT 2018

Endorsed by



The International Society of Nephrology



Acute Kidney Injury Network

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IMPORTANT CONFERENCE DATES

Abstract Submission (see page 5)	Now Open
Online Registration Begins	November 1, 2017
Deadline for Receipt of Abstracts (see page 5)	December 12, 2017
Notification of Abstract Acceptance	January 5, 2018
Deadline for Early Bird Registration	January 19, 2018
Hotel Reservation Deadline	February 3, 2018
On-site Registration Fees Begin	February 17, 2018
Pre-Conference Elective AKI Symposium - PW1 (see page 4)	March 6, 2018
Pre-Conference Elective CRRT Workshop - PW2 (see page 4)	March 6, 2018
Poster Mounting and Viewing	March 6, 2018
Plenary and Standard Workshop Sessions	March 7-9, 2018

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- Li Yang, MD**
Beijing, CHINA
- Alex Zarbock, MD**
Munster, NR GERMANY

GENERAL INFORMATION

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.

REGISTRATION FEES

	Early Bird On or before Jan. 19, 2018	Pre-Registration Jan. 20, 2018 thru Feb. 16, 2018	On-Site Registration Feb. 17 thru Mar. 10, 2018
Physicians/Other (MD, PhD, etc.) <i>With Multimedia Package</i>	\$ 730 \$ 930	\$ 830 \$ 1,030	\$ 895 \$ 1,095
Nurses/Dietitians/ Pharmacists/Residents*/Fellows* <i>With Multimedia Package</i>	\$ 530 \$ 730	\$ 630 \$ 830	\$ 675 \$ 875
Industry <i>With Multimedia Package</i>	\$ 730 \$ 930	\$ 830 \$ 1,030	\$ 895 \$ 1,095

*with letter of verification from department head

PRE-CONFERENCE ELECTIVE SYMPOSIUM & WORKSHOP FEES

PW1 AKI, PW2 CRRT	\$ 240	\$ 260	\$ 280
<i>PW1 with Multimedia Package</i>	\$ 365	\$ 385	\$ 405
PW1 AKI without full conference reg.	\$ 270	\$ 290	\$ 310
<i>PW1 only with Multimedia Package</i>	\$ 395	\$ 415	\$ 435

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.

PRE-CONFERENCE ELECTIVE EVENTS *(CME Available)*

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 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 powerpoint lectures on CRRT (accessible online).

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 describe the key features of CRRT. 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 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 BREAKFAST AND LUNCH SYMPOSIA - see website for details

Wednesday, March 7 - Luncheon 12:30-2:00pm *(Non-CME)*

The Importance of a Quality Assurance Program for a CRRT

Thursday, March 8 - Luncheon 12:30-2:00pm *(Non-CME)*

Cytokine Removal in Critical Care and Cardiac Surgery - Update on Evidence and Clinical Experiences

Friday, March 9 - Breakfast 6:45-8:00am

Optimizing Care in the ICU Through Use of Novel Dialysis Technology *(Non-CME)*

Seating LIMITED for these sessions - Selection made during registration

ABSTRACT INFORMATION

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.
2. Deadline: abstracts **MUST BE RECEIVED** no later than **December 12, 2017**.
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

CME INFORMATION

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 has been planned and implemented in accordance with the accreditation requirements and policies of the Accreditation Council for Continuing Medical Education (ACCME) through the joint providership 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 live activity for a maximum of **32.25 AMA PRA Category 1 Credits™**. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

BRN: For the purpose of recertification, the American Nurses Credentialing Center accepts *AMA PRA Category 1 Credits™* issued by organizations accredited by the ACCME. For the purpose of relicensure, the California Board of Registered Nursing accepts *AMA PRA Category 1 Credits™* (report up to **32.25** hours of credit and list "CME Category 1" as the provider number).

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

CME CREDIT

The following Workshops, Plenary Sessions and Electives qualify 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 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 disclose 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>.

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.

CONFERENCE OFFICE

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

CONTACT INFO

RES/CRRT 2018

Phone: 858-272-1018

Fax: 858-272-7687

Email: crct@res-inc.com

Website: www.crctonline.com

PROGRAM

MONDAY, MARCH 5

4:00-7:00pm Conference Registration Open

TUESDAY, MARCH 6

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

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 Robert Star, MD

8:00-8:20 **HIF Signaling in AKI** - Volker Haase

8:20-8:40 **Cell Death Pathways in AKI** - Andreas Linkermann

8:40-9:00 **Iron and Innate Immunity in AKI: Promising Therapeutic Targets** - Swami Sundararaman

9:00-9:20 **3D Imaging of Human Biopsies in AKI** - Tarek M. Ashkar (El-Achkar)

9:20-9:40 **Optogenetics in Understanding Mechanisms of AKI** - Mark Okusa

9:40-10:00 **Discussion**

10:00-10:15 *Coffee Break*

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

Co-Chairs: Paul Sanders, MD and Prabhleen Singh, MD

10:15-10:35 **Assessing Tubular Function During Injury and Repair from AKI** - Volker Vallon

10:35-10:55 **Lung-kidney Cross-talk: The Role of Mitochondrial Dysfunction** - Laura Crotty-Alexander

10:55-11:15 **Sepsis Induced AKI: Does Basic Science Match the Clinical Spectrum** - John Kellum

11:15-11:35 **Genomic Determinants of AKI** - David Leaf

11:35-11:55 **Intestinal Microbiota in AKI** - Hamid Rabb

11:55-12:15 **Discussion**

12:15-1:15 pm *Lunch Hosted by Conference*

PLENARY 3 **Bench to Bedside: Translating Discoveries to Clinical Care**

Co-Chairs: Mark Okusa, MD and Kathleen Liu, MD

1:15-1:35 **Transcriptional Profiling Differentiates AKI Subtypes** - Jonathan Barasch

1:35-1:55 **Micro-RNA Profile After Major Trauma and the Incidence of AKI and MOF** - John Prowle

1:55-2:15 **Urine Proteomic Analysis: A Viable Approach to Identify Biomarkers in AKI** - John Arthur

2:15-2:35 **Pre-implantation Kidney Biopsies as a Predictor for Delayed Graft Function** - Roslyn Mannon

2:35-2:55 **A Beta-HCG Derivative Modulates the Immune Response and Protects the Kidneys** -

Peter Pickkers

2:55-3:15 **Discussion**

3:15-3:30 *Coffee Break*

PLENARY 4 **Controversies in AKI**

Co-Chairs: Mitch Rosner, MD and Stuart Goldstein, MD

3:30-3:50 **Determining Renal Reserve in AKI** - Claudio Ronco

3:50-4:10 **Do AKI Biomarker Trajectories Provide a Phenotype for AKI Prediction?** - Rajit Basu

4:10-4:30 **AKI in Real Time: Prediction, Prognostication, and Alerts** - Francis Perry Wilson

4:30-4:50 **Assessing Renal Recovery after AKI: Can Biomarkers Help?** - Zoltan Endre

4:50-5:10 **Clinical Trial Endpoints in AKI: What Should We Not Use?** - Paul Palevsky

5:10-5:30 **Discussion**

5:30 **Adjourn**

5:30-7:00pm **Tuesday Evening Reception & Poster Review** - For All Conference Attendees

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 interactive sessions 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:	David Askenazi, MD	Luis Juncos, MD, PhD	Noel Oabel, BSN, RN, CNN
	Linda Awdishu, PharmD, MAS	Nithin Karakala, MD	David Selewski, MD
	Michael Connor, MD	Isagani Marquez, RN	Teri Shell, RN
	Stuart Goldstein, MD	Theresa Mottes, RN	

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	<i>Coffee Break</i>
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	<i>Lunch Hosted by Conference for Workshop Participants</i>
1:10-4:00	

Interactive Sessions

These sessions will engage nurses and physicians in separate tracks. Physicians will be guided on user interfaces and the strategies for prescribing dose for solute and fluid management, adjustments in therapy parameters, recognition and management of complications. Nurses will learn how to set up for different modalities and adjust and monitor for therapy delivery based on the prescription. **Pediatric teams will rotate only through the pediatric section.**

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, Programing to Match Orders - 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, David Selewski, Theresa Mottes

4:00-4:15	<i>Coffee Break</i>
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?

Lui 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

Michael Connor (Moderator)

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

Andrew Lewington (Moderator)

Qi Qian and James Tumlin (Discussants)

SESSION I: PATIENT CHARACTERISTICS (CME Available)

8:20-10:30am **Plenary 1 - MINI-SYMPOSIA**
Organ Dysfunction in the Critically Ill Patient: Emerging Concepts

Co-Chairs: Kianoush Kashani 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**

Kathleen Liu

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



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

11:00am-12:30pm GROUP 1 - SIMULTANEOUS STANDARD WORKSHOPS (choose one)

- A01 Using Kidney Biomarkers for AKI: Principles and Practice (C,N,AP)**
Practical issues for use of kidney biomarkers for assessing risk and for early recognition and interventions in AKI. (*Murray, Basu, Bihorac*)
- B02 Strategies for Optimizing the CRRT Circuit (Access, Anticoagulation and Programmatic Assessments) (C,N,AP)**
Case-based discussion on best practice for maintaining circuits for CRRT focusing on Access, Anticoagulation and program assessment. (*Juncos, Ding, Askenazi*)
- C03 Assessment of Fluid Responsiveness, Hemodynamic Monitoring and Targets (C, N)**
Principles and strategies for volume assessment, hemodynamic and microcirculatory monitoring in critically ill patients. (*Pinsky, Pickkers*)
- D04 Managing Patients with AKI and Liver Failure 1: Pathophysiology, Differential Diagnosis, Use of RRT, Liver Support, Strategies for Bridge to Transplant (C,N,AP)**
Pathophysiology of AKI in setting of acute and chronic hepatic failure and management strategies for differential diagnosis and therapy. (*Nadim, Jalan, Davenport*)
- E05 Establishing and Maintaining Core Competencies for Nurses for CRRT (I,N,AP)**
Core curriculum for nursing education, training and assessment of competencies for performing RRT and extracorporeal support techniques. (*Lischer, Mottes*)
- F06 Principles, Applications and Practical Issues of Plasma Exchange (C,N,AP)**
Rationale and technique of plasma exchange and its applications, case based discussions. Technique adaptations for combining CRRT with other extracorporeal support therapies. Circuit setup, logistics, monitoring and assuring safety. (*Noiri, Sanchez, Marquez*)

NEW!
Nursing Track
(E Series)

12:30-2:00pm LUNCH SYMPOSIA - (CME Available, Seating is LIMITED)

(lunch provided by conference, selection made during registration)

W1 - Emerging Strategies for Monitoring Changes in Renal Structure and Function

Moderators: Sandra Kane Gill and Eddie Siew

Pro-Enkephalin - Peter Pickkers

Kinetic GFR - Marlies Ostermann

Contrast Enhanced Ultrasound - TBD

W2 - Fluid Management of the Critically Ill Patient: When to Use Crystalloids, Colloids and Blood Products

Moderators: Miet Schetz and Hiroyuki Hirasawa

Early Resuscitation - Jean Louis Vincent

Optimization and Maintenance - Lui Forni

Descalation and Restoration of Homeostasis - Kianoush Kashani

W3 - Multiorgan Support Therapies (MOST): Are We Ready?

Moderators: Claudio Ronco and Eisei Noiri

Combined Renal and Respiratory Support - Zaccaria Ricci

Liver Support (MARS) - Rajiv Jalan

Apheresis and Sorbent Therapies - Patrick Honoré

W4 - Management of AKI in Sepsis: Challenges and Opportunities?

Moderator: Azra Bihorac and Patrick Murray

Pathophysiology of AKI in Sepsis - John Kellum

Role of hemodynamics in Sepsis - Michael Pinsky

Therapeutic Targets and Interventions - Michael Joannidis

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

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)	Review limitations of existing approaches to assessment and interpretation of kidney function. Discuss how novel renal biomarkers can be leveraged to guide medication therapy in critically ill patients with a focus on optimization of drug dosing to limit drug induced kidney disease. (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. (Claire, Ronco, Selewski)
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, Pickkers, Fleming)
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. (Tobwani, Selby, Ricci)
F12	Sorbent Based and Hybrid Therapies for Extracorporeal Support (I,N,AP)	Hemopurification systems for sepsis, immunoadsorption and PMMA. (Hirasawa, Honoré, Ding)

NEW!
Nursing Track
(E Series)

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

SESSION I: PATIENT CHARACTERISTICS - continued (CME Available)

4:00-6:00pm	Plenary 2 - MINI-SYMPOSIA	5:00-5:15	Personalized BP Management to Optimize Organ Perfusion
	Acute Kidney Injury (AKI): Pathophysiology		Michael Pinsky
<i>Co-Chairs:</i>	Jay Koyner	5:15-5:30	Are SGLT-2 Inhibitors Risk Factors for AKI?
4:00-4:15	Does Hypoalbuminemia Cause AKI?		Peter McCullough
	Michael Joannidis	5:30-6:00	SPECIAL LECTURE
4:15-4:30	Pathogenesis of AKI in Heart Failure: Insights from Biomarker Studies		Precision Medicine and the Kidney
	Patrick Murray		Robert Star
4:30-4:45	Clinical Trajectories of AKI in Sepsis	6:00pm	Adjourn
	Azra Bihorac	6:00-8:00pm	EXHIBIT RECEPTION AND POSTER SESSION
4:45-5:00	TAVR and AKI: Cause or Consequence?		
	Kianoush Kashani		

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 Steve Alexander

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 Hyponatremia

Andrew Davenport and Jordan Symons (*Moderators*)

Qi Qian and James Tumlin (*Discussants*)

This symposium will cover the pathophysiology of hypo and hyponatremia and discuss the practical issues for management of these disorders with novel agents

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

John Prowle and Erin Barretto (*Moderators*)

Nick Selby and Miet Schetz (*Discussant*)

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, Gill, 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, Schetz*)

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-SYMPOSIA**

Challenges in ICU Management

Chair: Zaccaria Ricci

10:15-10:30 **Are Balanced Solutions the Solution?**

Edward Siew

10:30-10:45 **Preventing AKI in the ICU: Current Guidelines -** Michael Joannidis

10:45-11:00 **Multiparametric MRI in the Assessment of AKI -** Nick Selby

11:00-11:15 **Albumin in Cirrhosis: More than just a Fluid Expander -** Rajiv Jalan

11:15-11:30 **Functional Hemodynamic**

Management: Does it Work?

Michael Pinsky

11:30-11:45 **The Hospital of Tomorrow**

Jean Louis Vincent

11:45-12:15 **SPECIAL LECTURE**

Translating to Management Award

AKI: From Clinical to

Molecular Diagnosis

Claudio Ronco

12:15-12:30 **Top Abstract Awards**

THURSDAY 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, Jay Koyner

T2 - Hydration and Kidney Health

Moderator: 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? - Magdalena Madero

T3 - AKI in the Patient with Cancer

Moderators: Steve Alexander and David Ward

Pathophysiology and Mechanisms - Mitch Rosner

Imaging techniques and Risk for AKI - Peter McCullough

Renal Function Monitoring - Stuart Goldstein

T4 - Can Big Data Drive Better Care for AKI?

Moderators: Andrew Lewington and Li Yang

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 - Francis Perry Wilson

12 - 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?
Lui 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 Andre

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
- 6:45-8:00am **I3 - 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)

- | | |
|--|--|
| <p>8:00-10:30am Plenary 6 - MINI SYMPOSIA
 Global Burden of AKI</p> <p><i>Chair:</i> Xiaohu Ding and Andrew Lewington</p> <p>8:00-8:15 AKI and the Global Burden of Disease
 Jorge Cerda</p> <p>8:15-8:30 CKD of Unknown Origin (CKDu): AKI in Disguise?
 Magdalena Madero</p> <p>8:30-8:45 Nationwide Epidemiology and Prognosis of Dialysis-requiring Acute kidney Injury (NEP-AKI-D) Study
 Vincent Wu</p> <p>8:45-9:00 Preventing Contrast Induced AKI: The PRESERVE Trial
 Paul Palevsky</p> <p>9:00-9:15 Obstetric AKI: Still a Problem
 Kate Bramham</p> | <p>9:15-9:30 Education and Training to Raise Awareness of AKI in the Community
 TBD</p> <p>9:30-9:45 The ISN 0by25 AKI Pilot Study: What Have We Learnt?
 Etienne Macedo</p> <p>9:45-10:00 Tackling AKI: The Quality Improvement Study
 Nick Selby</p> <p>10:00-10:15 AKI in China: Results of a Nationwide Survey
 Li Yang</p> <p>10:15-10:30 Clinical-pathological Correlations in AKI
 Sanjay Agarwal</p> <p>10:30-11:00 <i>Coffee Break</i></p> |
|--|--|

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

- | | |
|---|---|
| <p>11:00am-1:00pm Plenary 7
 MINI SYMPOSIA
 Emerging Strategies in AKI and Extracorporeal Support</p> <p><i>Co-Chairs:</i> Vincent Wu and Jorge Cerda</p> <p>11:00-12:30 Update from Ongoing and Late Breaking Trials
 <i>12 minutes each</i></p> <p>1. The ASSESS AKI Study: What Have We Learned?
 Edward Siew</p> <p>2. Alkaline Phosphatase for Septic AKI
 Peter Pickkers</p> <p>3. Angiotensin II in Shock: The ATHOS2 Trial
 James Tumlin</p> | <p>4. STAART AKI Trial Update
 Sean Bagshaw</p> <p>5. Ketoacid Supplementation and Renal Recovery Post AKI
 Vivek Kumar</p> <p>6. Endotoxin Removal for Sepsis: The EUPHRATES Trial
 Patrick Honoré</p> <p>12:30-12:55 Critical Care Nephrology: Literature Review
 Noel Gibney</p> <p>12:55-1:00 Closing Remarks
 Ravindra L. Mehta
 <i>Chairman</i></p> <p>1:00pm Conference Adjourns</p> |
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AKI&CRRT 2018 <i>March 6-9, 2018</i>	AKI&CRRT 2019 <i>Feb. 26-Mar 1, 2019</i>	AKI&CRRT 2020 <i>February 25-28, 2020</i>
		

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

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c/o RES Seminars
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