

THE 27TH INTERNATIONAL CONFERENCE ON
ADVANCES IN CRITICAL CARE NEPHROLOGY

AKI & CRRT 2022



*Updates in ICU Medicine:
Controversies, Challenges and Solutions*

MARCH 7-10, 2022
HILTON SAN DIEGO BAYFRONT
SAN DIEGO, CALIFORNIA



Endorsed by the
INTERNATIONAL SOCIETY OF NEPHROLOGY
AND
ACUTE KIDNEY INJURY NETWORK



CRRTONLINE.COM

Abstract Deadline:
Dec. 12, 2021

AKI&CRRT 2022

Endorsed by



The International Society of Nephrology
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IMPORTANT CONFERENCE DATES

Abstract Submission (see page 5)	Now Open
Online Registration Begins	October 15, 2021
Deadline for Receipt of Abstracts (see page 5)	December 12, 2021
Notification of Abstract Acceptance	January 5, 2022
Deadline for Early Bird Registration	January 7, 2022
Hotel Reservation Deadline	February 4, 2022
On-site Registration Fees Begin	February 8, 2022
Pre-Conference Elective CRRT Workshop (see page 4)	March 6 & 7, 2022
Pre-Conference Elective AKI Symposium (see page 4)	March 7, 2022
Poster Mounting and Viewing	March 7, 2022
Plenary and Standard Workshop Sessions	March 8-10, 2022

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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 SEVENTH INTERNATIONAL AKI & CRRT CONFERENCE** are March 7-10, 2022. The Conference will be held at the Hilton San Diego Bayfront, 1 Park Blvd, San Diego, CA 92101, Tel: (619) 564-3333. 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 (Mon. & Tue.), Exhibit Reception (Tue.), CME Accreditation, Conference Syllabus (digital media), two Lunches (Tue. & Wed.), two Breakfasts (Tue. & Wed.) and all conference coffee breaks. Conference Registration Fee **DOES NOT** include Elective Events on Sunday or Monday. (see page 4 & 5 for list). Registration check-in will begin on Sunday, March 6, 2022. Poster Viewing will begin on Monday evening March 7, 2022. For additional registration times see the program.

REGISTRATION FEES

	Early Bird On or before Jan. 7, 2022	Pre-Registration Jan. 8, 2022 thru Feb. 4, 2022	Registration Feb. 5 thru March 10, 2022
Physicians/Other (MD, PhD, etc.)	\$ 770	\$ 870	\$ 930
<i>With Multimedia Package</i>	\$ 1,020	\$ 1,120	\$ 1,180
Nurses/Dieticians/ Pharmacists/Residents*/Fellows*	\$ 570	\$ 670	\$ 715
<i>With Multimedia Package</i>	\$ 820	\$ 920	\$ 965
Industry	\$ 770	\$ 870	\$ 930
<i>With Multimedia Package</i>	\$ 1,020	\$ 1,120	\$ 1,180

*with letter of verification from department head

PRE-CONFERENCE ELECTIVE SYMPOSIUM & WORKSHOP FEES

AKI Sympium or CRRT Basics	\$ 260	\$ 280	\$ 300
<i>AKI Symp with Multimedia Package</i>	\$ 385	\$ 405	\$ 425
AKI Symp without full conference reg.	\$ 290	\$ 310	\$ 330
<i>with Multimedia Package</i>	\$ 415	\$ 435	\$ 455

MEET THE EXPERT BREAKFAST SESSIONS

(with registration) **\$50**

These breakfast sessions (choose from 2 on Tues, Wed & Thur) 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) **\$250**

Free with 3 night conference hotel stay! See website for details.

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.

PRE-CONFERENCE ELECTIVE EVENTS (CME Available)

CRRT WORKSHOP *(see page 3 for fees)*

2 Day Workshop!

SUN. & MON., MARCH 6 & 7

(limited enrollment, full program on page 9)

Practice Based Learning in CRRT: The Science and the Art

Sunday 1:45pm-6:00pm, Monday 7:45am-5:30pm

(includes PM break on Sunday and Monday breaks and lunch - CRRT Conference Registration Required)

This workshop is designed to provide participants with the knowledge and understanding for the effective utilization of CRRT to manage critically ill patients. Session 1 on Sunday focuses on the fundamentals of CRRT including the components, operational characteristics and characteristics, solute and fluid management and monitoring. Session 2 on Monday will utilize case based discussions and interactive sessions to illustrate the underlying concepts for application of CRRT in different situations.

AKI SYMPOSIUM *(see page 3 for fees)*

Presented by UAB/UCSD O'Brien Center for AKI Research

MONDAY, MARCH 7 - Full Day* *(limited enrollment, full program on page 8)*

Changing Paradigms in AKI: From Mechanisms to Management

7:55am-5:30pm *(includes 12:15 lunch, AM & PM breaks - CRRT Conference Registration is NOT Required*)*

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.

SOCIAL ACTIVITIES (Non-CME)

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 Tuesday, March 8, 2022 6:30-8:30pm

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)

Additional Industry related sessions are currently being planned. Updates will be posted to the website as the events are scheduled. These informative sessions are typically held during breakfast and lunch time periods and are selected during registration.

ABSTRACT INFORMATION

DEADLINE FOR RECEIPT OF ABSTRACTS: December 12, 2021

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, 2021**.
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, 2022**.
7. **Selected abstracts will be eligible for digital poster discussions on Monday & Tuesday, March 7 & 8 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 the conference website.
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.** Award recipients are required to be present at their poster session on Monday, March 7 and Tuesday, March 8, 2022.

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 3 overall and 1 pediatric abstract will be selected.

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: Monday, March 7 and Tuesday, March 8, 2022.
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, 2022** 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 is being planned and implemented in accordance with the accreditation requirements and policies of the Accreditation Council for Continuing Medical Education (ACCME). More information on accreditation will post to the conference website.

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 sessions are being reviewed for CME Credit:

SUNDAY & MONDAY, MARCH 6 & 7, 2022

ELECTIVE: Practice Based Learning in CRRT

MONDAY, MARCH 7, 2022

ELECTIVE: Changing Paradigms in AKI

TUESDAY, MARCH 8, 2022

MEET THE EXPERT SESSIONS, BREAKFAST SYMPOSIA, LUNCH SYMPOSIA

SESSION I: PATIENT CHARACTERISTICS

GROUP 1 - WORKSHOPS, GROUP 2 - WORKSHOPS

WEDNESDAY, MARCH 9, 2022

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

THURSDAY, MARCH 10, 2022

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.

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, 2022**. Allow 6-8 weeks for refund.

CONFERENCE OFFICE

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RES/CRRT 2022

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Fax: 858-272-7687

Email: crtr@res-inc.com

Website: www.crrtonline.com

PROGRAM

SUNDAY & MONDAY, MARCH 6 & 7

11:30am-7:00pm Conference Registration Open

PRE-CONFERENCE ELECTIVE WORKSHOP - (CME Available)

(see page 3 for elective 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 the effective utilization of CRRT to manage critically ill patients. Session 1 on Sunday focuses on the fundamentals of CRRT including the components, operational characteristics and characteristics, solute and fluid management and monitoring. Session 2 on Monday will utilize case based discussions and interactive sessions to illustrate the underlying concepts for application of CRRT in different situations. 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

SUNDAY, March 6 - SESSION 1 (all workshop attendees)

- 1:45-2:00pm **Opening Remarks** - Ashita Tolwani, Jorge Cerda
- 2:00-2:30 **Pre-Test** - Ashita Tolwani, Jorge Cerda
- 2:30-3:00 **Access, Membrane, Circuit** - Luis Juncos
- 3:00-3:30 **CRRT Machine and Modality Selection** - Jorge Cerda
- 3:30-4:00 **CRRT Rx and Delivery of Dose** - Javier Neyra
- 4:00-4:15 *Coffee Break*
- 4:15-4:45 **Solutions and Fluid Balance** - John Prowle
- 4:45-5:15 **Anticoagulation** - Ashita Tolwani
- 5:15-6:00 **Interactive Case Discussion** - Ashita Tolwani and CRRT Faculty
- 6:00 pm **Adjourn**

*Our CRRT Workshop is a
2 day event.
- Sunday and Monday -*

MONDAY MORNING, March 7 - SESSION 2

Physician Track

- 8:00-8:30am **Patient Selection**
Jorge Cerda
- 8:30-9:00 **Initiation and Discontinuation**
Manish Kaushik
- 9:00-10:00 **Management of Dysnatremias**
Lenar Yessayan
- 10:00-10:20 *Coffee Break*
- 10:20-10:50 **Drug Dosing and Adjustments**
Linda Awdishu
- 10:50-11:20 **Adjusting Nutrition**
Mike Zappitelli
- 11:20-11:40 **Management of Acid-base Disorders**
Lenar Yessayan
- 11:40-12:00 **Achieving Survival and Recovery**
Michael Connor

Nurse Track

- 8:00-8:40am **Orders, Charting and Monitoring**
Katrina Eggleston
- 8:40-9:20 **CRRT in the Operating Room**
Sean Bagshaw
- 9:20-10:00 **CRRT for Pediatric Applications**
Theresa Mottes
- 10:00-10:20 *Coffee Break*
- 10:20-10:50 **Patient Mobilization and Rehabilitation** - John Prowle
- 10:50-11:20 **Integrating Multidisciplinary Support Team for CRRT Delivery**
Katrina Eggleston, Manish Kaushik
- 11:20-12:00 **Developing Quality Measures for CRRT Delivery**
Theresa Mottes, Javier Neyra

12:00-1:00pm

Lunch Hosted by Conference for Workshop Participants

Workshop schedule continues on following page

Practice Based Learning in CRRT: The Science and the Art

MONDAY AFTERNOON, March 7 - SESSION 2 *continued*

1:10-4:00 INTERACTIVE TRACKS

These sessions will have nurses, physicians and pediatric 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.

Physicians Track

Session 1

Circuit, Anticoagulation and Monitoring

Ashita Tolwani, Lenar Yessayan

Session 2

Dose / Fluid / Documentation / Recognizing and Managing Complications

Michael Connor, Akash Deep

Session 3

Prescription / Order Sets / Decision Making / Coordination of Care

Jorge Cerda, Javier Neyra

Session 4

Monitoring, Alarms and Connections with Other Therapies

Keith Wille, Katrina Eggleston

Nursing Track

Session 1

Machine Priming, Circuit Set Up, Programing to Match Orders

Katrina Eggleston

Session 2

Implementing Therapy Delivery Dose Adjustments, Fluid Balance

Javier Neyra

Session 3

Therapy Monitoring and Troubleshooting Alarms, Therapy Discontinuation

Manish Kaushik, Luis Juncos

Session 4

Connectology with Hybrid Systems ECMO, ECCOR, Apheresis

Manish Kaushik, Michael Connor

Pediatric Track

Modality Selection, Circuit Modifications, Therapy Dosing, Monitoring, Adjustments for Targeted Interventions

David Selewski, Scott Sutherland, Theresa Mottes

4:00-4:15

Coffee Break

4:15-4:55

Interactive Clinical Case (Decision Making) - (Ashita Tolwani and CRRT Faculty)

5:00-5:30

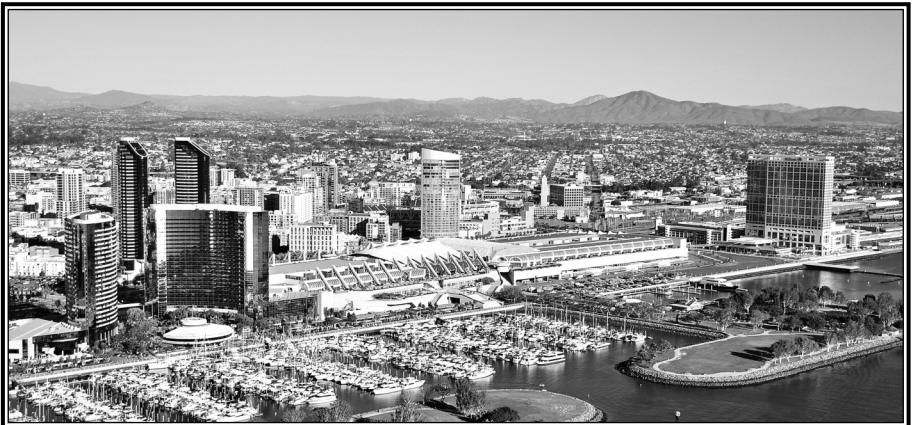
Post-test and Wrap-up

5:30

Adjourn

5:30-7:30pm

Monday Evening Reception & Poster Review - For All Conference Attendees



MONDAY, MARCH 7

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

PRE-CONFERENCE AKI SYMPOSIUM (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 Volker Vallon, MD

8:00-8:20 **Myeloid Response to AKI** - Mark Okusa

8:20-8:40 **Histone Deacetylases in Kidney Physiology and AKI** - Kelly Hyndman

8:40-9:00 **Intracellular Complement Activation in AKI and Kidney Fibrosis** - Didier Portilla

9:00-9:20 **Mitochondrial Pathology After AKI: Implications for Recovery** - Manjeri Venkatachalam

9:20-9:40 **Bioenergetics in AKI** - Prabhleen Singh

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 **Role of Bacterial Quorum Sensing Signaling in Sepsis-associated AKI** - Vincenzo Cantaluppi

10:35-10:55 **AKI and Diastolic Dysfunction: Opportunity for Targeted Intervention?** - Danielle Soranno

10:55-11:15 **Fatty Acid Oxidation, Aerobic Glycolysis and Epithelial De-differentiation in Sepsis-induced AKI** - Hernando Gomez

11:15-11:35 **New Insights Into Drug Toxicity in AKI** - Leah Siskind

11:35-11:55 **Extracellular Vesicles in AKI** - Uta Erdbrügger

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: Kathleen Liu, MD and Peter Pickkers, MD

1:15-1:35 **Nanoparticle Mediated Drug Delivery for AKI Therapeutics** - M.N.V Ravi Kumar

1:35-1:55 **What Can Urine Biomarkers Tell Us About Kidney Development / Maturation?**
David Askenazi

1:55-2:15 **Targeting ER Reticulum for Novel Therapeutics in AKI** - Y. Maggie Chen

2:15-2:35 **Federated Learning in Acute Kidney Injury: Experience in COVID 19** - Girish N. Nadkarni

2:35-2:55 **Targeting the Microbiome in AKI: Progress on the Horizon?** - Hamid Rabb

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

3:15-3:30 *Coffee Break*

PLENARY 4 **Controversies in AKI**
Co-Chairs: Marlies Ostermann, MD and Patrick Murray, MD

3:30-3:50 **Sepsis Phenotypes and Risk of AKI** - John Kellum

3:50-4:10 **Can We Predict Drug Induced Nephrotoxicity?** - Linda Awdishu

4:10-4:30 **Hidden in Plain Sight: Chloride as a Key Cardiorenal Connector in Heart Failure**
Amir Kazory

4:30-4:50 **Pregnancy Related AKI: Do We Know What to Do?** - Silvi Shah

4:50-5:10 **Serum Creatinine Changes are Not a Meaningful Metric in RCT's and Clinical Care**
Steve Coca

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

5:30 **Adjourn**

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

TUESDAY 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 1 (ME1) - How do I Manage the Patient with Septic AKI
Claudio Ronco and Peter Pickkers

Session 2 (ME2) - How do I Dose Volume during CRRT?
Thomas Rimmele and Raghavan Murugan

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

Symposium A - Plasma Exchange in Critically Ill Patients: Who, When and How
Amber Sanchez (Moderator)

Esiei Noiri and David Askenazi (Discussants)

Plasma exchange (PE) is increasingly utilized in the ICU with CRRT and other extracorporeal techniques. This symposium will describe the best approaches for applying PE in critically ill patients and explore merging opportunities for managing patients with hybrid therapies

Symposium B - Non-Dialytic Management of Complications of AKI
Anitha Vijayan (Moderator)

Stephane Gaudry and Lui Forni (Discussants)

This symposium will cover the pathophysiology and management of hyperkalemia and acidosis in critically ill patients using illustrative cases. Are ACE inhibitors nephrotoxic? What are the newer therapeutic drugs available and how should they be used? Should we use bicarbonate to correct acidosis? When is lactic acidosis a problem? When and how should RRT be used in these situations?

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: Kathleen Liu and Michael Joannidis

8:20-8:30 **Opening Remarks**
Ravindra L Mehta

8:30-8:45 **Liver Kidney Networks:**
What is Going on in HRS
Mitra Nadim

8:45-9:00 **Clinical Phenotyping in COVID19:**
Another Form of Sepsis?
Peter Pickkers

9:00-9:15 **Brain-kidney Interactions:**
Mechanisms of AKI in TBI
Vincenzo Cantaluppi

9:15-9:30 **Metabolic Responses to Critical Illness: Does Uremia Matter?**
John Prowle

9:30-9:45 **Metformin: Repurposing an Old Drug to Treat Sepsis-induced AKI**
Hernando Gomez

9:45-10:00 **Kidney Heart Connections:**
What Have We Learnt?
Amir Kazory

10:00-10:30 **SPECIAL LECTURE**
The Hospital of The Future
Jean-Louis Vincent

10:30-11:00 *Coffee Break*
Faculty Picture



TUESDAY MORNING, MARCH 8

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
These Standard Workshops are designed for smaller groups and allow for more interaction between presenters and attendees. Ample time is available for Q&A.

Workshop Tracks

A: Biomarkers; B: CRRT Technique; C: Critical Care Topics ; D: Organ Support

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

A01 Biomarker Enhanced Management of AKI and RRT (C,N,AP)

Several biomarkers are now available to assess kidney function and damage. Which patients should get these assessments and how should these be applied will be discussed in this case based workshop
(Ronco, Basu, Zarbock)

B02 Citrate Anticoagulation for CRRT: How to Use it? (C,N,AP)

Regional citrate anticoagulation (RCA) is increasingly utilized for CRRT. Advances in technology have enabled automated citrate anticoagulation. However, concerns remain about its ease of use and application in patients with liver failure and reduced tissue perfusion. This workshop will discuss the best approaches for utilizing RCA for CRRT. *(Tolwani, Kaushik, Zappitelli)*

C03 Assessment of Fluid Responsiveness, Hemodynamic Monitoring and Targets (C,N)

Determining which patient needs fluids, what type and how much are key questions to be addressed in this workshop which will cover the principles and strategies for volume assessment, hemodynamic and microcirculatory monitoring in critically ill patients. *(Wald, Kashani, Sutherland)*

D04 Managing Patients with Combined Kidney and Liver Failure (C,N,AP)

Patients with combined liver and kidney failure are difficult to manage. This workshop will discuss the pathophysiology and illustrate best approaches for differential diagnosis and management of these patients.
(Nadim, Deep, Juncos)

12:30-2:00pm *Lunch*

***Make your hotel reservations early
at crrtonline.com***

*Or call the hotel directly. Mention you are a
delegate to the AKI & CRRT Conference to
receive the group rate.*

***Hilton San Diego Bayfront
1-800-HILTONS***



TUESDAY AFTERNOON, MARCH 8

12:30-2:00pm **LUNCH SYMPOSIA - (CME Available, Seating is LIMITED)**
Lunch provided by conference, selection made during registration. Please note, these are the only lunch options provided on Tuesday

T1 Raising Awareness of AKI: Are we There Yet?

Moderators: Etienne Macedo and Rolando Del-Claire Granado

AKI is common across multiple settings and significantly contributes to worsened patient outcomes and healthcare costs, however awareness of the disease and its recognition, management and follow up is highly variable. Over the last few years concerted efforts have been made to improve awareness of the disease and its consequences and the findings will be discussed in this symposium.

Knowledge and Practice Gaps for AKI Management - Rajit Basu

The AKI Now Initiative - Jorge Cerda

Implementing the ISN 0by25 Intervention in the Amazon - Emmanuel Burdmann

T2 Personalized Management of Shock: How to use Biomarkers, Vasopressors and Fluids?

Moderators: Sean Bagshaw and Lui Forni

There is increasing evidence that different patient respond differently to fluids and vasopressor management for shock. This symposium will discuss how best we may identify phenotypes to personalize fluid type (colloids and crystalloids and blood products) and volume and vasopressor management in shock patients to improve outcomes.

Phenotypes of Shock: Do We Have Biomarkers? - Jean-Louis Vincent

Vasopressors for Patients in Shock, Which One to Choose? - Peter Pickkers

Which Fluids Should We Use? - Marlies Ostermann

T3 Extracorporeal Organ Support (ECOS) for Multi Organ Failure

Moderators: Patrick Honore and Kathleen Liu

ECOS techniques have evolved to providing novel methods for blood purification and achieving homeostasis. This symposium will cover the recent advances in this field and discuss how best to utilize these techniques in different settings.

Spectrum of ECOS Techniques and Rationale for Application - Claudio Ronco

Hemoperfusion for Burn Patients - Thomas Rimmele

ECMO and ECCOR for the Failing Lung - Keith Willie

T4 Improving Care for Patients After Hospitalization for AKI

Moderators: Nuttha Lumlertgul and Vincent Wu

AKI is a complex disease that requires multidisciplinary interventions however most patients who are hospitalized with an episode of AKI do not have systematic follow up or targeted interventions to improve recovery and mitigate the effects of the disease. This symposium will provide guidance on patient centered approaches to improve the management and outcomes of patients with AKI.

Role of Comprehensive Care in Post Severe Acute Kidney Injury Survivors

Nattachai Srisawat

Improving Post-AKI Care - What are the Challenges? - Nick Selby

Biomarker-enhanced Risk Stratification for Long-term Kidney and CV Outcomes

Steve Coca

TUESDAY AFTERNOON, MARCH 8

STANDARD WORKSHOPS - GROUP 2 (CME Available for All)

2:00-3:30pm **GROUP 2 - SIMULTANEOUS STANDARD WORKSHOPS** (choose one)

A05 Pediatric AKI and RRT: Beyond the Basics (I,N,AP)

This workshop will highlight the epidemiology and best practices for AKI management and CRRT, peritoneal dialysis and tandem therapies application in neonates and children.
(Fuhrmann, Mottes, Selewski)

B06 Precision Solute Control and Dynamic Dosing with CRRT? (I,N,AP)

CRRT techniques have evolved with availability of new technology to customize dialysis delivery. This interactive case based workshop will discuss how to apply the technology for dose adjustments, monitoring for adequacy, modality selection and transitions in CRRT. (Claure, Kaushik, Goldstein)

C07 Starting, Transitioning and Stopping RRT for AKI: Science and Art (A)

One of the most vexing issues for clinicians is determining when to initiate RRT in critically ill patients, when and how to transition modalities and when it can be stopped. This workshop will use case studies to explore various approaches and establish the principles for clinical decisions for renal support.
(Gaudry, Mehta, Bagshaw)

D08 Managing Patients with Sepsis: Modifying the Course with (ECOS) (C,N,AP)

Septic patients often require ECOS to allow time for recovery. This workshop covers the rationale and strategies for the practical application of extracorporeal support techniques for sepsis. Case studies will be utilized to delineate different options. (Honoré, Rimmele, Gomez)

3:30-4:00pm

Coffee Break

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

4:00-6:00pm	Plenary 2 - MINI-SYMPOSIA <i>Acute Kidney Injury (AKI):</i> <i>Pathophysiology</i>	5:00-5:15	Predicting Pediatric AKI: The TAKING FOCUS 2 Study Stuart Goldstein
<i>Co-Chairs:</i>	Anitha Vijayan and Emmanuel Burdmann	5:15-5:30	AKI - Is it All the Same? Alex Zarbock
4:00-4:15	Cardiac Surgery Associated AKI: The NEPHRON Collaborative Katja Gist	5:30-6:30	SPECIAL SESSION: CONCEPTS - JAWSOME SHARK TANK In this panel session 'contestants' will pitch their ideas for an innovation for AKI or RRT to a panel of experts who will then compete to invest (or reject) the pitched platform.
4:15-4:30	Drug Toxicity in the ICU Mitch Rosner		
4:30-4:45	AKI in COVID 19: Do We Know the Mechanisms? Matthieu LeGrand	6:30pm	Adjourn
4:45-5:00	Post Op Oliguria: Cause for Concern? Lui Forni	6:30-8:30pm	EXHIBIT RECEPTION AND POSTER SESSION

WEDNESDAY MORNING, MARCH 9

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) - When Do I say No to Offer RRT

Mitra Nadim and Rajit Basu

Session 4 (ME4) - How do I Manage the Oliguric Patient?

Jean-Louis Vincent and Kathleen Liu

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 Dysnatremias

Marlies Ostermann (*Moderator*)

Lenar Yessayan and Javier Neyra (*Discussants*)

Dysnatremias are commonly encountered in ICU patients and are often difficult to manage. This symposium will cover the pathophysiology of hypo and hypernatremia and discuss the practical issues for management of these disorders with novel agents and describe how RRT can be used for severe disorders.

Symposium D - Managing AKI in the Patient with Cancer

David Selewski (*Moderator*)

Mitch Rosner and Shruti Gupta (*Discussants*)

The number of anticancer drugs are increasingly expanding and commonly cause kidney injury. This symposium will discuss how to prevent drug nephrotoxicity, adjust doses of anticancer medicines and manage patients who develop AKI in the setting cancer therapy.

STANDARD WORKSHOPS - GROUP 3 (CME Available for All)

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

A09 Onco Nephrology: Managing AKI in the Patient with Cancer (C,N,AP)

The number of anticancer drugs are increasingly expanding and commonly cause kidney injury. This workshop will discuss how to prevent drug nephrotoxicity, adjust doses of anticancer medicines and manage patients who develop AKI in the setting cancer therapy. (*Rosner, Gupta, Zappitelli*)

B10 Personalized Fluid Management with CRRT (A)

Achieving fluid balance and maintaining plasma composition is key for effective CRRT. This workshop will use case studies to discuss strategies for fluid management in CRRT to achieve patient driven outcomes for fluid, electrolyte and acid base balance. (*Murugan, Mehta, Neyra*)

C11 Dealing with an Acute RRT Surge: Lessons from COVID19 (A,N,AP)

The COVID19 pandemic created an unprecedented demand on services often overwhelming the available capacity for managing critically ill patients. Centers across the world had to rapidly adapt and pivot to address the emergent needs. This workshop will describe the various changes that different centers made for providing RRT and provide a framework to prepare for future surges in demand. (*Prowle, Vijayan, Connor*)

D12 Managing the Heart Failure Patient with Worsening Renal Function (WRF) (A,N)

Patients with advanced heart failure often develop WRF. It is often difficult to determine which patients can be managed with drug therapy vs requiring RRT. This workshop will describe the practical application and results of different methods to treat heart failure and cardio-renal syndrome including ultrafiltration techniques. (*Kazory Ronco, Gist*)

9:45-10:15am

Coffee Break

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

10:15am-12:30pm Plenary 3 - MINI-SYMPOSIA <i>Challenges in ICU Management</i> <i>Co-Chairs:</i> Eric Hoste and Katja Gist 10:15-10:30 The Problem with Fluid Balance Matthieu LeGrand 11:00-11:15 Liver Disease in the ICU: When should We Offer RRT? Mitra Nadim 10:30-10:45 Fluid Management in setting of AKI/ARDS Kathleen Liu	10:45-11:00 Hypoalbuminemia in the ICU: Cause for Concern? Michael Joannidis 11:15-11:30 AKI Attributable Mortality Kent Doi 11:30-11:45 Optimal Arterial Pressure in Acutely Ill Patients Jean-Louis Vincent 11:45-12:15 SPECIAL LECTURE <i>Translating to Management Award</i> TBD 12:15-12:30 Top Abstract Awards
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12:30-2:00pm **LUNCH SYMPOSIA - (CME Available for W1, W2, W3 & W4, Seating is LIMITED)**
(lunch provided by conference, selection made during registration)

W1 Sharpening the Saw: How Optimization of the CRRT Program can Improve Outcomes

Moderators: Ashita Tolwani and David Askenazi

Although RRT is commonly applies worldwide there are minimal established criteria for monitoring the quality of care delivered. This symposium will describe the characteristics of top-tier CRRT programs and describe strategies and tools to develop Quality Improvement merging data from CRRT devices and clinical information. The importance of policies, procedures, and dashboards will be discussed.

Establishing and Maintaining a Performance Improvement Project for RRT - Manish Kaushik

Team Based Management of CRRT: It Takes a Village - Theresa Mottes

Harnessing Multimodal Data Streams to Improve CRRT Delivery - Javier Neyra

W2 Optimizing Fluid Management in the ICU: Fit for Purpose?

Moderator: Michael Connor and Linda Awdishu

Fluid administration is an integral component of management, however there is considerable variation in the type and quantity of fluids used and increasing concern that fluid therapy contributes to AKI. This symposium will review the evidence for our current strategy for using crystalloids, colloids and blood products and provide guidance on best practices to manage patients in different settings.

Perioperative Fluid Management - John Prowle

The Patient with COVID-19 ARDS - Michael Joannidis

Simultaneous Use of Hypertonic Saline and IV Furosemide for Fluid Overload - Kianoush Kashani

W3 AI and CDSS for AKI and RRT: The Future is Here

Moderators: Scott Sutherland and Azra Bihorac

Artificial Intelligence (AI) techniques are rapidly expanding and have provided new insights and opportunities to risk assess, detect and intervene in several conditions. However their application requires development of clinical decision support systems (CDSS) to improve prevention and management. This symposium will highlight the advances in the field and their application for AKI and RRT.

Artificial Intelligence to Augment Care: Are We There Yet? - Shamim Nemat

Incorporating Multi-Modal Data to Improve AKI Prediction - Girish N. Nadkarni

Designing and Implementing a CDSS for AKI Prevention - Neesh Pannu

W4 Biomarker Enhanced Management of AKI and RRT

Moderators: Raj Chakravarthi and Jay Koyner

Several biomarkers of kidney damage and function are now available for clinical application, however their use remains limited. This workshop will discuss different approaches for improving patient management with biomarker based care delivery in different settings.

Biomarker Positive AKI: It is the Real Deal - Dana Fuhrman

Clinical Expertise, Biomarker or Score for Prediction of AKI? - Eric Hoste

Embedding Biomarkers in the Clinical Workflow to Improve AKI and RRT Care - John Kellum

WEDNESDAY AFTERNOON, MARCH 9

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

2:00-3:45pm	Plenary 4 - MINI-SYMPOSIA <i>Novel Strategies in AKI Management</i>	4:15-6:00pm	Plenary 5 - MINI-SYMPOSIA <i>Challenges and Controversies in Renal Support and CRRT</i>
<i>Co-Chairs:</i>	Li Yang and Patrick Murray	<i>Co-Chairs:</i>	Ashita Tolwani and David Askenazi
2:00-2:15	Can Biomarkers Identify Patients at Risk for Long Term Adverse Outcomes? Nick Selby	4:15-4:30	The Promise of Sorbents Claudio Ronco
2:15-2:30	Combining UO and Creatinine for AKI Staging: The AKI Score Scott Sutherland	4:30-4:45	Predictive and Prescriptive Approaches for RRT Application Ravindra L Mehta
2:30-2:45	Should FGF-23 -Fan the Fire or Put it Out in AKI? Vincent Wu	4:45-5:00	Long Term Outcomes after Severe AKI: Results from AKIKI Stephane Gaudry
2:45-3:00	The Importance of Persistent Severe AKI Jay Koyner	5:00-5:15	Transitions in RRT Modality: What Criteria Should we Use? Sean Bagshaw
3:00-3:15	Harnessing AI for AKI Management: Are We There Yet? Azra Bihorac	5:15-5:30	AKI and RRT in Patients Receiving ECMO Marlies Ostermann
3:15-3:30	Acute Kidney Stress: How to Detect and Manage it John Kellum	5:30-6:00	SPECIAL LECTURES ADQI REPORT ADQI 26: pADQI - The Pediatric Critical Care Nephrology Conference Rajit Basu
3:30-3:45	RAAS Inhibitors and AKI: Start or Stop? Steve Coca	6:00	Adjourn - Free Evening
3:45-4:15	<i>Coffee Break</i>		

Mark Your Calendar!!!

AKI&CRRT 2022

March 7-10, 2022



THURSDAY MORNING, MARCH 10

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) - Deciding who Needs to Start and Stop RRT

Stephane Gaudry and Manish Kaushik

Session 6 (ME6) - How do I Assess the Volume Status of My Patient?

Kianoush Kashani and Marlies Ostermann

7:30-8:00am *Coffee Served*

SESSION IV: IMPROVING OUTCOMES IN AKI (CME Available)

8:00-10:30am **Plenary 6 - MINI SYMPOSIA**
Global Burden of COVID 19 AKI

Co-Chairs: Javier Neyra and Eisei Noiri

8:00-8:15 **The Pediatric Experience**
Akash Deep

8:15-8:30 **COVID19 and ICU Capacity**
Lessons Learned
Sean Bagshaw

8:30-8:45 **Kidney Biopsies in COVID19:**
What Have We Seen?
Raj Chakaravarthi

8:45-9:00 **COVID 19 AKI Progression and**
Long Term Outcomes
Nutha Lumlertgul

9:00-9:15 **Epidemiology of COVID 19 AKI**
Eric Hoste

9:15-9:30 **The COVID19 Global**
Snapshot Study
Harin Rhee

9:30-9:45 **AKI-RRT in Critically Ill Patients**
with COVID-19
Shruti Gupta

9:45-10:00 **Immunomodulatory Treatment in**
COVID-19: Suppress or Stimulate
Peter Pickkers

10:00-10:15 **COVID19 AKI and RRT:**
Experience from Brazil
Emmanuel Burdmann

10:15-10:30 **Impact of COVID -19 Associated**
AKI on Renal Outcomes
Neesh Pannu

10:30-11:00 *Coffee Break*

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

11:00am-1:00pm **Plenary 7 - MINI SYMPOSIA**
Emerging Strategies in AKI and
Extracorporeal Support

Co-Chairs: Vincent Wu and Jorge Cerda

11:00-11:15 **Removing Fluids: The Role of**
Net Ultrafiltration
Raghavan Murugan

11:15-11:30 **Blood Purification to Reverse the**
Post-resuscitation Syndrome:
Fact or Fiction ?
Patrick Honoré

11:30-12:30 **Update from Ongoing and**
Late Breaking Trials
10 minutes each

1. Prevention of AKI:
An Update 2022
TBD

2. The REVIVAL Trial
Peter Pickkers

3. I SPY Covid Trial
Kathleen Liu

4. LAPIS Trial: Limiting AKI
Progression in Sepsis
Hernando Gomez

5. Equipoise and Eligibility in the
STARTR-AKI Trial
Ron Wald

6. Validating Biomarkers for
Renal Recovery
TBD

12:30-12:55 **Critical Care Nephrology:**
Literature Review
Kianoush Kashani

12:55-1:00 **Closing Remarks**
Ravindra L. Mehta
Chairman

1:00pm **Conference Adjourns**