

THE 30TH INTERNATIONAL CONFERENCE ON
ADVANCES IN CRITICAL CARE NEPHROLOGY

Updates in ICU Medicine: Controversies, Challenges and Solutions

AKI & CRRT 2025



MARCH 3-6, 2025

MANCHESTER GRAND HYATT
SAN DIEGO, CALIFORNIA



CRRTONLINE.COM

Abstract Deadline:
Dec. 12, 2024

AKI&CRRT 2025

MARCH 3-6, 2025

MANCHESTER GRAND HYATT SAN DIEGO, CALIFORNIA USA

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IMPORTANT CONFERENCE DATES

Abstract Submission	Now Open
Online Registration	Now Open
Deadline for Receipt of Abstracts (see page 5)	December 12, 2024
Deadline for Early Bird Registration	December 13, 2024
Notification of Abstract Acceptance	January 5, 2025
On-site Registration Fees Begin	February 1, 2025
Hotel Reservation Deadline	February 16, 2025
Pre-Conference Elective CRRT Workshop (see page 4)	March 2 & 3, 2025
Pre-Conference Elective NEXUS Workshop (see page 21)	March 2, 2025
Pre-Conference Elective POCUS Workshop (see page 4)	March 3, 2025
Pre-Conference Elective AKI Symposium (see page 22)	March 3, 2025
Poster Mounting and Viewing	March 3, 2025
Plenary and Standard Workshop Sessions	March 4-6, 2025

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- Volker Vallon, MD**
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Munster, NR GERMANY
- Abolfazl Zarjou, MD**
Birmingham, AL USA

GENERAL INFORMATION

Visit our website for the most current program information, abstract submission, online registration and online hotel reservations. www.crrtonline.com

CONFERENCE DATES AND LOCATION

The inclusive dates for all scientific sessions of the **THIRTIETH INTERNATIONAL AKI & CRRT CONFERENCE** are March 3-6, 2025. 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, Morning Symposia, Exhibit Area, Welcome Reception & Poster Sessions (Mon.), Exhibit Reception & Poster Sessions (Tue.), CME Accreditation, Conference Syllabus (digital media), two Lunches (Tue. & Wed.), and all conference coffee breaks. Conference Registration Fee **DOES NOT** include Elective Events on Sunday or Monday. Registration check-in will begin on Sunday, March 2, 2025. Poster Viewing will begin on Monday evening March 3, 2025. For additional registration times see the program. **See website for Virtual Options.**

REGISTRATION FEES

	Early Bird On or before Dec. 13, 2024	Pre-Registration Dec. 14, 2024 thru Jan. 31, 2025	Registration Feb. 1 thru Mar. 6, 2025
Physicians/Other (MD, PhD, etc.)	\$ 895	\$ 995	\$ 1,050
<i>With Multimedia Package</i>	\$ 1,195	\$ 1,295	\$ 1,350
Nurses/Dietitians/ Pharmacists/Residents*/Fellows*	\$ 665	\$ 775	\$ 820
<i>With Multimedia Package</i>	\$ 965	\$ 1,075	\$ 1,120
Industry	\$ 895	\$ 995	\$ 1,050
<i>With Multimedia Package</i>	\$ 1,195	\$ 1,295	\$ 1,350

*with letter of verification from department head

CME CERTIFICATE FEE

\$50

Includes credits for Conference Sessions, CRRT Basics Workshop and POCUS Workshop

PRE-CONFERENCE ELECTIVE SYMPOSIUM & WORKSHOP FEES

CRRT Basics	\$ 350	\$ 370	\$ 395
POCUS Workshop	\$ 380	\$ 400	\$ 425
AKI Symposium	\$ 350	\$ 370	\$ 395
AKI Symposium w/o full conference reg.	\$ 410	\$ 430	\$ 455
Nexus Pediatric Workshop	\$ 75	\$ 75	\$ 75

MEET THE EXPERT BREAKFAST SESSIONS

(with registration) **\$60**

These breakfast sessions (choose from 2 on Tue., Wed. & Thur.) allow participants to meet and interact with internationally renowned experts in an informal setting over breakfast. See pages 12, 16 and 19 for titles and faculty.

ONLINE MULTIMEDIA PRESENTATIONS

(with registration) **\$300**

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

ELECTIVE CRRT WORKSHOP *(see page 3 for fees)*

2 Day Workshop!

SUNDAY & MONDAY, MARCH 2 & 3 *(CME Available for fee, limited enrollment)*

Practice Based Learning in CRRT: The Science and the Art

Sunday 1:30pm-6:00pm, Monday 8:00am-5:30pm

See full description and program on pages 9 & 10.

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

ELECTIVE NEXUS WORKSHOP

(see page 3 for fees)

SUNDAY, MARCH 2 *(Non-CME, limited enrollment)*

Introduction to the NEXUS - Pediatric Collaboratives

Sunday 1:00pm-6:15pm

See full description and program on page 21.

(includes breaks and dinner - full CRRT Conference Registration Required)

ELECTIVE POCUS WORKSHOP

(see page 3 for fees)

MONDAY, MARCH 3 *(CME Available for fee, limited to 40 participants)*

Point of Care Ultrasound (POCUS): Science and Practice

Monday 8:00am-4:30pm

See full description and program on page 11.

(includes lunch, AM & PM breaks - full CRRT Conference Registration Required)

ELECTIVE AKI SYMPOSIUM

(See page 3 for fees. Full AKI & CRRT 2025 conference registration is NOT required)*

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

MONDAY, MARCH 3 *(Non-CME, limited enrollment)*

Changing Paradigms in AKI: From Mechanisms to Management

7:55am-5:30pm

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. See full program on page 22. *(includes lunch, AM & PM breaks)*

* A \$30 discount will be given to attendees that also register for the AKI & CRRT Conference. To receive the discount you must sign up for this symposium at the same time you register for the conference.

ELECTIVE MEET THE EXPERTS *(see page 3 for fees)*

These elective breakfast sessions 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.

Choose from 2 on Tuesday, Wednesday and Thursday - 7:00-8:00am. See program for details

ADDITIONAL OPTIONAL SESSIONS (*Non-CME*)

These informative sessions are held during breakfast or lunch time periods.
Seating is **LIMITED** for these sessions - Selection made during registration. All are *Non-CME*

TUESDAY MORNING, March 4

7:00-8:00am

INDUSTRY BREAKFAST SYMPOSIUM - TBD *Non-CME*

TUESDAY AFTERNOON, March 4

12:30-2:00pm

INDUSTRY LUNCH SYMPOSIA - TBD *Non-CME*

WEDNESDAY AFTERNOON, March 5

12:30-2:00pm

INDUSTRY LUNCH SYMPOSIA - TBD *Non-CME*

ABSTRACT INFORMATION

DEADLINE FOR RECEIPT OF ABSTRACTS: December 12, 2024

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, 2024**.
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 6, 2025**.
7. **Selected abstracts will be eligible for digital poster discussions on Monday and Tuesday, March 3 & 4 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 3 and Tuesday, March 4, 2025.

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 3 and Tuesday, March 4, 2025.
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 6, 2025** 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: crrt@res-inc.com

Website: crrtonline.com

SOCIAL ACTIVITIES (*Non-CME*)

Welcome Reception and Poster Sessions Monday, March 3, 2025 5:30-7:30pm

All attendees are invited to review the CRRT poster presentations including fellows in training and meet the presenters and faculty. This is a great opportunity to pick-up credentials, register on-site, organize your workshops and prepare for the upcoming CRRT meeting. Light appetizers & refreshments will be served.

Exhibit Reception and Poster Session Tuesday, March 4, 2025 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.

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

TBD

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, Dietitians, 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 2 & 3, 2025

ELECTIVE: Practice Based Learning in CRRT: The Science and the Art - WORKSHOP

MONDAY, MARCH 3, 2025

ELECTIVE: POCUS WORKSHOP

TUESDAY, MARCH 4, 2025

MEET THE EXPERT SESSIONS, MORNING SYMPOSIA

SESSION I: PATIENT CHARACTERISTICS

GROUP 1 - WORKSHOPS, GROUP 2 - WORKSHOPS

WEDNESDAY, MARCH 5, 2025

MEET THE EXPERT SESSIONS, MORNING SYMPOSIA

GROUP 3 - WORKSHOPS

SESSION II: CONTROVERSIES IN CRITICAL CARE NEPHROLOGY

SESSION III: EMERGING CONCEPTS IN AKI AND RRT

THURSDAY, MARCH 6, 2025

MEET THE EXPERT SESSIONS, MORNING SYMPOSIA

SESSION IV: IMPROVING OUTCOMES IN AKI

SESSION V: FUTURE TRENDS IN CRRT AND CRITICAL CARE

FACULTY DISCLOSURE

It is the policy of University of California San Diego School of Medicine Continuing Professional Development to ensure that the content of accredited continuing education and related materials is accurate, balanced, objective, and scientifically justified. Education must be free of the influence or control of ineligible companies, and protect learners from promotion, marketing, and commercial bias. All persons in a position to control the content of accredited continuing education must disclose all financial relationships held with ineligible companies, prior to assuming a role in the activity. Those relationships deemed relevant to the education are mitigated prior to the activity through one of the following strategies, depending on the nature of relationship and the role of the person: 1) divesting the financial relationship, 2) altering the individual's control over content, and/or 3) validating the planning decisions and/or content through independent peer review. All relevant financial relationships are mitigated prior to the activity and mitigation strategies and necessary steps for implementation are communicated to individuals prior to them assuming their role in the activity. Persons who refuse or fail to disclose are disqualified from participating in the activity. Activities are evaluated by participants and peer reviewers to determine if the content was free of bias and met acceptable scientific standards. This information is considered in future activity planning.

CULTURAL AND LINGUISTIC COMPETENCY

Continuing medical education (CME) providers are required by state Assembly Bills 1195 and 241, and the standards created by the California Medical Association (CMA), to include components that address cultural and linguistic competency and implicit bias in CME activities. The planners and presenters of this activity has been asked to provide meaningful consideration of these standards in the selection and presentation of content. Additional resources can be found on the UC San Diego CME website:

<https://medschool.ucsd.edu/education/cme/tools/Pages/Cultural-Competency.aspx>

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 17, 2025**. Allow 6-8 weeks for refund.

CONFERENCE OFFICE

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

CONTACT INFO

RES / AKI & CRRT 2025

Phone: 858-272-1018

Fax: 858-272-7687

Email: crrt@res-inc.com

Website: www.crrtonline.com

PROGRAM

SUNDAY, MARCH 2

12:00pm-7:30pm Conference Registration Open

PRE-CONFERENCE ELECTIVE WORKSHOP

(*Non-CME, see page 3 for elective workshop fees*)

NEXUS Workshop

1:00-7:00pm Please see page 21 for details and schedule

PRE-CONFERENCE ELECTIVE WORKSHOP

(*CME Available except for Session 5, 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 Monday focuses on the fundamentals of CRRT including the components, operational characteristics and characteristics, solute and fluid management and monitoring. Session 2 on Tuesday 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 AFTERNOON, March 2 - SESSION 1

1:30pm-6:00pm **CRRT PRINCIPLES** - *CME Available*

1:30-1:45pm **Opening Remarks** – Ashita Tolwani, Jorge Cerda

1:45-2:00 **Introduction to CRRT Master Class** – Ashita Tolwani

2:00-2:30 **Patient Selection, Modality, and Dose** – Jorge Cerda

2:30-3:15 **The ABC of the CRRT Prescription** – Ashita Tolwani

3:15-3:45 **Access, Membrane, Circuit** – Manish Kaushik

3:45-4:15 **Solutions and Fluid Balance** – Javier Neyra

4:15-4:30 *Coffee Break*

4:30-4:50 **Drug Dosing and Adjustments** – Linda Awdishu

4:50-5:10 **Nutritional Support During CRRT** – Michael Connor

5:10-6:00 **Dysnatremias and Acid Base Disorders** – Lenar Yessayan

6:00pm **Adjourn** (*Resume Monday Morning*)

MONDAY MORNING SCHEDULE ON FOLLOWING PAGE

Practice Based Learning in CRRT: The Science and the Art

Continued from Sunday afternoon

MONDAY, March 3

SESSION 2

8:00am-9:35am **IMPLEMENTING CRRT - CME Available**

8:00-8:20 **De-escalating and Transitioning RRT** – Manish Kaushik

8:20-8:40 **Integrating Multidisciplinary Support Team for CRRT Delivery** – Linda Awdishu

8:40-9:00 **Paper to Digital, e-Prescribing and Charting for CRRT During AKI in the ICU** – Theresa Mottes

9:00-9:20 **Developing Quality Measures for CRRT Delivery** – David Askenazi

9:20-9:35 **Introduction to Workshops** – Ashita Towani

9:35-9:50 *Coffee Break*

SESSION 3

9:50am-12:15pm **WORKSHOPS - Breakout Sessions - CME Available**

Rotating at 45 minute intervals: 9:50-10:35am; 10:40-11:20am; 11:25am-12:15pm

Room #1: Knowing your Circuit, Alarms, and Other Tricks

Katrina Eggleston and Katie Plomaritas

Room #2: The When, How, and Why of CRRT? – Pedro Teixeira and Dana Fuhrman

Room #3: Citrate Lab and Other Anticoagulation Alternatives: Concepts to Build Your Protocol
Lenar Yessayan and Michael Connor

12:15-1:00pm *Lunch Hosted by Conference for Workshop Participants*

SESSION 4

1:00pm-3:00pm **WORKSHOPS - Breakout Sessions - CME Available**

Rotating at 35 minute intervals: 1:00-1:35pm, 1:40-2:15pm, 2:25-3:00pm

Room #1: Connectology with Hybrid Systems: ECMO, Apheresis, ECCOR

Keith Wille and Katie Plomaritas

Room #2: Precision Solute Control and Dynamic Dosing with CRRT

Manish Kaushik and Ashita Tolwani

Room #3: What's New in Blood Purification in the ICU?

Thiago Reis, Javier Neyra and Raj Basu

3:00-3:15 *Coffee Break*

SESSION 5 - NON-CME

3:15pm-5:30pm **Please see page 21 for Session 5 Schedule**

ELECTIVE AKI SYMPOSIUM

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

Changing Paradigms in AKI: From Mechanisms to Management

7:55am-5:30pm

See page 22 for full schedule

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

PRE-CONFERENCE POCUS WORKSHOP *(CME Available w/ fee)**(CME Available, limited to 40 participants, see page 3 for elective workshop fees)***Point of Care Ultrasound (POCUS): Science and Practice**

This course is designed for nephrology and critical care providers to learn the basics of Point-Of-Care Ultrasound with a specific focus on frequent pathologies found in acutely ill patients. This workshop will include brief didactic sessions and hands-on sessions. At the end of this workshop, the trainees will have basic knowledge about indications for POCUS, normal/abnormal findings, and how this can be integrated in the evaluation of the patients. The aim is to provide the introductory practical skills necessary to continue their training autonomously. A quiz will be administered pre- and post-course for assessment.

Faculty: W. Beaubien-Souligny; K. Kashani; A. Shaw, R. Wald; J. Deschamps; V. Niyyar, P. Teixeira

Learning Objectives:

The core focus on this course is as follows:

- 1. Cardiac:**
 - A. Qualitative assessment of chamber size and systolic function;
 - B. Identification of severe valvulopathy;
 - C. Assessment of pericardial fluid and tamponade physiology
- 2. Thoracic:**
 - A. Qualitative assessment of pleural effusion size and characteristics;
 - B. Identification of pneumothorax;
 - C. Assessment of alveolar consolidation and interstitium
- 3. Abdominal:**
 - A. Identification of kidney and bladder and assessment of kidney size and echogenicity, and evaluation of urinary obstruction;
 - B. Identification of intraperitoneal fluid;
 - C. Qualitative assessment of abdominal aorta size
- 4. Vascular and Vascular Access:**
 - A. Patency and caliber of main veins for catheter placement;
 - B. Identifying the presence of a thrombus;
 - C. Basic examination of an arteriovenous fistula/graft
- 5. Hemodynamic and Fluid Evaluation:**
 - A. Inferior vena cava visualization and assessment;
 - B. Venous Doppler assessment;
 - C. Estimating stroke volume / cardiac output

Schedule - Participants will be allocated into groups of 4 and will rotate through each of 5 stations to review the principles of image identification and interpretation and get hands-on experience with the ultrasound probes.

8:00-8:20am **Welcome and Pre-quiz**

8:20-8:45 **Introduction to Basics of Lung Ultrasound**

8:45-9:15 **Lungs: Hands-on** (group 1) / **Image Review Session** (group 2)

9:15-9:45 **Lung Part 2** (group switch)

9:45-10:00 *Coffee Break*

10:00-10:20 **Introduction to Basic Echocardiography**

10:20-10:50 **Heart: Hands-on** (group 1) / **Image Review Session** (group 2)

10:50-11:10 **Heart Part 2** (group switch)

11:10-12:30 **Vascular Ultrasound and Vascular Access**

12:30-1:15 *Lunch Hosted by Conference for Workshop Participants*

1:15-1:35 **Introduction to Abdominal and Renal Ultrasound**

1:35-2:05 **Abdomen: Hands-on** (group 1) / **Image Review Session** (group 2)

2:05-2:35 **Abdomen Part 2** (group switch)

2:35-2:50 *Coffee Break*

2:50-3:10 **Introduction to Fluid Status Assessment: Putting it all together**

3:10-3:40 **Fluid Assessment: Hands-on** (group 1) / **Image Review Session** (group 2)

3:40-4:10 **Fluid assessment 2** (group switch)

4:10-4:30 **Post-quiz and Conclusion**

4:30 **Adjourn**

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

TUESDAY MORNING, MARCH 4

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

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

Session 1 (ME1) - How do I use Hemadsorption Techniques in My Practice
Claudio Ronco and Thomas Rimmelé

Session 2 (ME2) - How Do I use ChatGpt to Help Me Work Smarter?
Azra Bihorac and Rolando Claire-Del Granado

7:00-8:00am **MORNING SYMPOSIA - (CME Available for A and B)**
(Seating is LIMITED, selection made during registration, coffee served)

Symposium A

De-escalating and Transitioning RRT: Best Practices

Ron Wald and Anitha Vijayan (Moderators)

The practice of transitioning between RRT modalities and discontinuing RRT varies widely across different centers. Due to a lack of guidelines, care delivery often relies on subjective assessments of the patient's condition. This symposium will explore the evidence for weaning patients from acute RRT and discuss the transition between different RRT modalities.

Modality Transitions for RRT: What do I do - Ashita Tolwani

Discontinuation of RRT - When and How - Sean Bagshaw

Liberation off CRRT - Strategies to Optimize Care in Children - Shina Menon

Symposium B

Utilizing Biomarkers for AKI Management: Practical Considerations

John Prowle and Mitra Nadim (Moderators)

Current paradigms for diagnosing, staging, and monitoring kidney function changes from AKI rely on serum creatinine and urine output, which often do not correlate with underlying structural damage. The availability of various biomarkers of kidney function and damage offers new approaches for patient evaluation and targeted interventions. This symposium will discuss practical ways to incorporate biomarkers to enhance management of AKI.

Determine High Risk Patients and Intervention Strategies - Alex Zarbock

Implementing Dialysis Timing with Biomarker Guidance - Rajit Basu

Assessing Recovery and Treatment Response to Intervention - Christian Nusschag

SESSION I: PATIENT CHARACTERISTICS (CME Available)

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

Co-Chairs: Eric Hoste and Kathleen Liu

8:20-8:30 **Opening Remarks**

Ravindra L Mehta

8:30-8:45 **Worsening Kidney Function in Acute Heart Failure**

Amir Kazory

8:45-9:00 **Refractory Shock: Can we Define it?**

Ashish Khanna

9:00-9:15 **Neural Control of Multiorgan Dysfunction in AKI**

Mark Okusa

9:15-9:30 **Lactate in Critical Illness**

Marlies Ostermann

9:30-9:45 **Sepsis Associated AKI: What Have we Learned?**
Matthieu LeGrand

9:45-10:00 **New Insights in Thermoregulation**
Peter Pickers

10:00-10:30 **SPECIAL LECTURE**
AI in the ICU: Are We Ready?

Yes: Azra Bihorac

Maybe: Jay Koyner

No: Lui Forni

Moderator: Claudio Ronco

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

CME Available for All 4 Workshops

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 Enhancing Communication in the Workplace: Improving Skills with Empathy (C,N,AP)

This experiential workshop aims to enhance patient care by fostering curiosity, listening, and perspective-taking skills. It will help participants develop competence in addressing communication challenges. Through brief interactive didactics, medical improv, and reflective exercises, we will improve skills essential for care providers and team members. Additionally, we will explore how implicit bias affects communication through prejudices, stereotyping, or discrimination.

(G. Mehta, JM Maury) Limited to 30 participants

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, Joannidis, Srisawat)*

C03 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.

(Plomaritas, Selewski, Soranno)

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, Rosner)

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.*

1-619-232-1234



12:30-2:00pm **LUNCH SYMPOSIA - (Non-CME)**

(Seating is LIMITED, selection made during registration, lunch provided by conference. Please note, these are the only lunch options provided on Tuesday.)

T1 - Establishing Evidence for Interventions for AKI and CRRT:

Trial Designs and Endpoints

Currently, no specific therapy exists for preventing or treating AKI other than mitigating further injury and providing supportive care. Clinical trials in AKI and CRRT have largely been unsuccessful in providing evidence for novel therapeutic interventions targeting underlying pathophysiology. This symposium will discuss the rationale and adoption of new, well-designed clinical trials with appropriate endpoints to confirm or refute the efficacy of such interventions.

Moderators: Glenn Chertow and Kathleen Liu

Sex and Gender Considerations in Critical Care Nephrology Trials – Nuttha Lumlertgul

Endpoints for AKI Trials - Time for a MAKE-over? – Andrew Shaw

Clinical Trial Designs: ADQI Recommendations – Alex Zarbock

T2 - Improving Care for Patients After Hospitalization for AKI

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 session will provide guidance on patient centered approaches to improve the management and outcomes of patients with AKI.

Moderators: Jorge Cerda and Samira Bell

Developing a Post-AKI follow-up Clinic - Real-life Experience – Nick Selby

Barriers to Effective Patient Education and Follow-up in AKI Recovery – Etienne Macedo

Post-Hospitalization of Patients with AKI Requiring Dialysis – Anitha Vijayan



STANDARD WORKSHOPS - GROUP 2 (CME Available)

CME Available for All 4 Workshops

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

A05 Enhancing Communication in the Workplace: Addressing Conflict and Uncertainty (C,N,AP)

Patients' emotional responses to illness, along with clinicians' reactions, are central to healthcare communication. Strong emotions significantly influence decision-making and clinical outcomes. Recognizing, validating, and managing negative emotions in patients is crucial. This workshop will provide brief didactics and reflections, share strategies for empathic communication, and explore ways to maintain our own emotional regulation. (*G Mehta, Fuhrman*)

Limited to 30 participants

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. (*Claire, Kaushik, Prowle*)

C07 Starting, Transitioning and Stopping RRT for AKI: Science and Art (C,N,AP)

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. (*Mehta, Bagshaw, Lumlertgul*)

D08 Hemadsorption: Techniques and Application (ECOS) (C,N,AP)

Hemadsorption techniques have advanced with the development of selective membranes for extracorporeal organ support. These methods are now widely used, often alongside standard CRRT. This workshop will cover the rationale and strategies for practical application, using case studies to explore different options. (*Ronco, Reis, Rimmelé*)

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

SESSION I: PATIENT CHARACTERISTICS - continued (CME Available)

4:00-6:00pm **Plenary 2 - MINI-SYMPOSIA**

CME Available **Acute Kidney Injury (AKI): Pathophysiology**

Co-Chairs: Danielle Soranno and Kent Doi

4:00-4:15 **Adenosine Antagonists and the Kidney**

David Askenazi

4:15-4:30 **The Emerging Concept of Tubular Functional Reserve**

Vincenzo Cantaluppi

4:30-4:45 **AKI in the Neurosurgical Unit**

Vedran Premuzic

4:45-5:00 **Urine Profiling in Sepsis Associated AKI**

Christian Nusshag

5:00-6:00 **SPECIAL SESSION**

30 Years of AKI and CRRT: Reflections and Predictions

Panel: Claudio Ronco, Tim Bunchman, Ravindra Mehta, Glenn Chertow & TBD

Moderators:

Stuart Goldstein & Marlies Ostermann

6:00pm **Adjourn**

6:00-8:00pm **EXHIBIT RECEPTION AND POSTER SESSION**

7:00am-6:00pm Conference Registration Open

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

Session 3 (ME3) - How do I Monitor Quality for CRRT in my ICU
Theresa Mottes and Oleksa Rewa

Session 4 (ME4) - How do I Manage the Oliguric Patient?
Ashish Khanna and Lui Forni

7:00-8:00am **MORNING SYMPOSIA - (CME Available for C and D)**
(Seating is LIMITED, selection made during registration, coffee served)

Symposium C - Nutritional Strategies for AKI and CRRT: Can We Improve Outcomes?
Michael Connor and Linda Awdishu (Moderators)

Patients with AKI often experience malnutrition due to altered nutrient metabolism and nutrient loss associated with RRT. Recent trial data suggests that adjusting protein and energy intake is crucial for improving outcomes in these patients. This symposium will review the latest findings on nutrition and discuss current official recommendations.

Assessing Nutritional Status and Needs in the ICU - Michael Joannidis
The Who, When and How of Nutritional Support for AKI and CRRT
Marlies Ostermann

Protein, Urea and Outcomes in AKI - John Prowle

Symposium D - Managing the Heart Failure Patient with Worsening Renal Function
Patrick Murray and Raj Chakaravarthi (Moderators)

Patients with advanced heart failure often develop worsening renal function (WRF), making it challenging to decide between drug therapy and RRT. This workshop will cover practical applications and outcomes of various treatments for heart failure and cardio-renal syndrome, including ultrafiltration techniques.

Assessing Cardiac Function – What Tools? - Jean Deschamps

Improvement in Renal Function: Is It a Good Thing in Acute Heart Failure?
Amir Kazory

Is Urine Sodium Effective at Guiding Decongestion? - Rolando Claude-Del Granado

STANDARD WORKSHOPS - GROUP 3 (CME Available)

CME Available for All 4 Workshops

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

A09 Enhancing Communication in the Workplace: When Something Goes Wrong (C,N,AP)

Despite our best efforts, patients sometimes face unintended negative consequences from care or treatment. It is our professional duty to disclose adverse events and near misses to patients and their families with honesty. This workshop will provide evidence-based communication tools to help offer apologies, share necessary information, and provide emotional support and resources. We will use clinical scenarios and role-plays to address challenges and manage these conversations effectively. (G. Mehta, Ostermann)
Limited to 30 participants

B10 Personalized Fluid Management with CRRT (A,N,AP)

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, Beaubien-Souligny)

C11 Optimization of the CRRT Program to Improve Outcomes (A,N,AP)

Although RRT is widely applied globally, there are minimal established criteria for monitoring care quality. This symposium will outline the characteristics of top-tier CRRT programs and strategies for Quality Improvement by integrating data from CRRT devices and clinical information. The importance of policies, procedures, and dashboards will also be discussed. (Neyra, Mottes, Rewa)

D12 Plasma Exchange in Critically Ill Patients: Who, When and How (A,N,AP)

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

9:45-10:15am *Coffee Break*

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

<p>10:15am-12:30pm Plenary 3 - MINI-SYMPOSIA <i>CME Available</i> Challenges in ICU Management <i>Co-Chairs:</i> Peter Pickkers and Nuttha Lumlertgul</p>	<p>11:15-11:30 Immune Disorders of AKI Patients Following Various Types of Injuries Thomas Rimmelé</p>
<p>10:15-10:30 Post-op Vasopressors Use and the Kidneys: Is There a Problem? Lui Forni</p>	<p>11:30-11:45 Hepatorenal Syndrome: Changing Paradigms Mitra Nadim</p>
<p>10:30-10:45 SGLT2 Inhibitors and Critical Illness Marlies Ostermann</p>	<p>11:45-12:15 SPECIAL LECTURE <i>San Diego AKI & CRRT Award</i> Translating Discoveries to Enhance Management in AKI TBD</p>
<p>10:45-11:00 Intra-abdominal Hypertension and Renal Perfusion Pressure: Targets for Intervention? Ashish Khanna</p>	<p>12:15-12:30 Top Abstract Awards</p>
<p>11:00-11:15 Understanding Kidney Health During and After Critical Illness John Prowle</p>	

12:30-2:00pm LUNCH SYMPOSIA - (Non-CME)

(Seating is LIMITED, selection made during registration, lunch provided by conference. Please note: At this time, these are the only lunch options provided on Wednesday.)

W1 - Chat GPT is Here to Stay: What Can We Expect?

The use of ChatGPT and similar AI tools is growing across various aspects of our lives. Despite being in the early stages of acceptance, these tools are being adopted in healthcare for quick access to medical information, generating patient summaries, suggesting diagnoses, and providing treatment options. This symposium will explore the emerging applications and practical issues of these techniques in managing ICU patients.

Moderators: Jay Koyner and Nuttha Lumlertgul

AI for Continuous Acuity Prediction in the ICU - Azra Bihorac

AI Generated Risk Score for Acute Kidney Injury Prediction - Rolando Claire-Del Granado

ChatGPT applications in Critical Care Nephrology - Kianoush Kashani

W2 - AKI Post Transplant: Recognition and Management

Acute kidney injury (AKI) frequently occurs in recipients of solid-organ transplants, such as kidney, heart, lung, and liver transplants. In addition to the typical causes of AKI in native kidneys, transplanted organs have unique risk factors. This symposium will cover the epidemiology, clinical significance, and pathogenic mechanisms of AKI, as well as the impact of immunosuppressive therapies on these patients.

Moderators: Keith Wille and Vandana Niyyar

Post Non-Kidney Solid Organ Transplant AKI: Patterns and Outcomes - Raj Chakaravarthi

AKI Post Kidney Transplant - Vincenzo Cantaluppi

Pediatric Post Transplant AKI - Akash Deep

WEDNESDAY AFTERNOON, MARCH 5

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

2:00-3:45pm	Plenary 4 - MINI-SYMPOSIA <i>CME Available</i> Novel Strategies in AKI Management <i>Co-Chairs:</i> Samira Bell and Javier Neyra	4:15-6:00pm	Plenary 5 - MINI-SYMPOSIA <i>CME Available</i> Challenges and Controversies in Renal Support and CRRT <i>Co-Chairs:</i> Anitha Vijayan and Nattachai Srisawat
2:00-2:15	Early Detection of Drug-induced Kidney Injury (DIKI): Role of Biomarkers Patrick Murray	4:15-4:30	ECMO and CRRT: Synergism or Dissonance David Selewski
2:15-2:30	Role of Renal Functional Reserve on AKI Risk and Recovery Claudio Ronco	4:30-4:45	Net Balance vs Net UF: What Matters? Ravindra Mehta
2:30-2:45	How Best to Assess Renal Recovery after AKI Nick Selby	4:45-5:00	Starting RRT for AKI: How Late is too Late? Ron Wald
2:45-3:00	AKI - Is it All the Same? Alex Zarbock	5:00-5:15	Effect of Ultrafiltration Rates on Kidney Recovery Post AKI Etienne Macedo
3:00-3:15	Preventing Cardiac Surgery AKI: Do we have a Solution Andrew Shaw	5:15-5:30	RRT Dose-Intensity in AKI - Time to Revisit Sean Bagshaw
3:15-3:30	Temporary Mechanical Circulatory Support and the Kidney Jean Deschamps	5:30-5:45	PIRRT in Critical Care: Does it have a Role? Eric Hoste
3:30-3:45	Management of RAAS Inhibitors in the Pre-op Setting Matthieu LeGrand	5:45-6:00	ADQI 34: Renal Toxicity Due to Anti-Cancer Therapies Mitch Rosner
3:45-4:15	<i>Coffee Break</i>	6:00	Adjourn - Free Evening

Mark Your Calendar!!!

AKI&CRRT 2025

March 3-6, 2025

Manchester Grand Hyatt San Diego, California



AND WATCH FOR 2026 DATES!!!

THURSDAY MORNING, MARCH 6

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

7:00-8:00am **MEET THE EXPERT - Breakfast Sessions (CME Available)**

(elective sessions, choose one, see pg. 4 for fees/details)

Session 5 (ME5) - How do I care for the Patient with ARDS and AKI

Kathleen Liu and Keith Wille

Session 6 (ME6) - How do I Dose Volume During CRRT?

Raghavan Murugan and David Selewski

7:00-8:00am **MORNING SYMPOSIA - (CME Available for E and F)**

(Seating is LIMITED, selection made during registration, coffee served)

Symposium E

Adapting CRRT for Patients with Electrolyte and Acid Base Problems

Pedro Teixeira and Harin Rhee (*Moderators*)

Acid base and electrolyte problem are commonly encountered in critically ill patients and are often the reason for initiating CRRT. This symposium will discuss three common situations in ICU patients and provide guidance on best practices for recognition and management.

Bicarbonate in AKI: Use and Misuse - Lui Forni

Dysnatremias: How to Correct with CRRT - Lenar Yessayan

Phosphorus and Magnesium Abnormalities During CRRT - Mitch Rosner

Symposium F

Assessment of Fluid Responsiveness, Hemodynamic Monitoring and Targets

Matthieu Legrand and Akash Deep (*Moderator*)

Fluid administration is an integral component of management of critically ill patients. Determining which patient needs fluids, what type, when and how much is crucial for optimal management. This symposium will cover the principles and strategies for volume assessment and hemodynamic monitoring in ICU.

Assessing Volume Status in the ICU Patient: Tools and Strategies

Kianoush Kashani

POCUS for Fluid Management: Can it Guide Therapy?

William Beaubien-Souligny

Hemodynamic Monitoring: What Metrics Should We Follow? - Eric Hoste

SESSION IV: IMPROVING OUTCOMES IN AKI (CME Available)

8:00-10:30am **Plenary 6 - MINI SYMPOSIA**

CME Available **Global Burden of AKI**

Co-Chairs: Raj Chakaravarthi and Etienne Macedo

8:00-8:15 **Effects of AKI in Liver Disease**

Akash Deep

8:15-8:30 **Inequalities in Healthcare and Effects on Kidney Disease**

Samira Bell

8:30-8:45 **Changing Epidemiology of AKI: What have we Learned?**

Jorge Cerda

8:45-9:00 **Advances in Pediatric AKI**

Timothy Bunchman

9:00-9:15 **Heat Stress and Kidney Dysfunction**

Emmanuel Burdmann

9:15-9:30 **TBD**

TBD

9:30-9:45

Greening CRRT: Opportunities and Challenges

Harin Rhee

9:45-10:00

Acute PD vs Acute HD: Which is the Right Choice?

Nattachai Srisawat

10:00-10:15

Controversial Issues in CKRT: Insights from Korean Guidelines

SeJoong Kim

10:15-10:30

ADQI 35: Accelerating the Adoption of Evidence-based Practices in AKI

Javier Neyra and Oleksa Rewa

10:30-11:00

Coffee Break

THURSDAY MORNING, MARCH 6

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

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

Co-Chairs: Thiago Reis and Harin Rhee

11:00-11:15 **New Horizons in AKD Care and Prevention**
Vincent Wu

11:15-12:30 **Update from Ongoing and Late Breaking Trials**
8-10 minutes each

1. The RELIEVE-AKI Trial

Raghavan Murugan

2. The ESTOP AKI Trial

Jay Koyner

3. LIBERATE-D Trial

Kathleen Liu

4. HERICC REGISTRY: PHASE 2

Vedran Premuzic

5. Bicarbonate in CRRT Trial

Michael Joannidis

6. Dialyzing Wisely Program

Oleksa Rewa

7. TIGRIS Trial

TBD

8. KOURAGE Trial

Patrick Murray

9. AM Pharma Trial

Peter Pickkers

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

SUNDAY, MARCH 2

12:00pm-7:30pm Conference Registration Open

PRE-CONFERENCE ELECTIVE WORKSHOP

(Non-CME, see page 3 for elective workshop fees)

NEXUS

Progress to improve care for children with critical care nephrology related illnesses continues. To continue a movement towards collaborative innovation, education, and study, the NEXUS is a symposium to focus the global approach to care for critically ill neonates and children. NEXUS is a joint session between all pediatric critical care nephrology care providers, industry partners, and thought leaders in the spaces of diagnostics, therapeutics, advocacy, and education.

SUNDAY AFTERNOON, March 2

- 1:00-1:15 **Welcome to the NEXUS**
- 1:15-2:15 **Pediatric Collaboratives – Around the Horn**
- 2:15-3:15 **Refreshment & Networking Session #1 – “What are the questions we aren’t asking?”**
- 3:15-4:15 **The Next Big Ideas (x3) - Jr. Faculty Led Sessions**
- 4:15-5:15 **The Industrial Pediatric Revolution: The Newest Paths in the Road**
- 5:15-6:15 **Refreshment & Interactive Session #2 – “Going Faster”**
- 6:15-6:30 **Sharing of Ideas / Concluding Statements**
- 6:30-7:15 **Adjourn/Break**
- 7:15-10:00 **Dinner**

Faculty: David Askenazi, Rajit K. Basu, Stuart Goldstein, Theresa Mottes, Dana Fuhrman and Timothy Bunchman

MONDAY, MARCH 3

PRE-CONFERENCE ELECTIVE WORKSHOP

(see page 3 for elective workshop fees)

Practice Based Learning in CRRT: The Science and the Art

(Non-CME Portion)

Continued from Monday Afternoon

SESSION 5 - *NON-CME*

3:15pm-5:30pm INTERACTIVE TRACKS

These sessions will have adult and pediatric tracks to familiarize attendees with the available CRRT machines. Participants will be guided on user inter-faces, learn how to set up for different modalities and adjust and monitor for therapy delivery based on the prescription. Machine connections for combination therapies with ECMO, apheresis and adsorption techniques will be shown. *This Session is Non-CME*

3:15pm-4:45pm **CRRT Equipment Demonstrations Simultaneous - Breakout Sessions**

(select one)

Room #1: Baxter PRISMAX

Ashita Tolwani, Michael Connor, Katrina Eggleston and TBD

Room #2: Fresenius NxStage / MultiFiltrate Pro

Lenar Yessayan, MD and TBD (multiFiltrate Pro) and TBD (NxStage)

Room #3: Pediatric Systems – David Askenazi, Dana Fuhrman and Theresa Mottes

4:45pm-5:30pm **CRRT MASTER CLASS**

In this session participants will be allocated to teams and given a case scenario for which they have to determine an appropriate prescription for CRRT and program the machine to deliver the therapy.

5:30 **Adjourn**

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

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

PRE-CONFERENCE AKI SYMPOSIUM (Non CME)*(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**Full Conference registration is NOT required for this elective symposium. See page 4 for details.*7:55 am **Opening Remarks** - Ravindra Mehta, MD**PLENARY 1 The Discovery Pipeline: Molecules, Mechanisms and Targets***Non-CME**Co-Chairs: Alex Zarbock and Prabhleen Singh*

8:00-8:20

Roles of Lymphatics and Lymphangiogenesis in AKI - Joseph Rutkowski

8:20-8:40

Iron Metabolism in AKI to CKD Transition - Abolfazl Zarjou

8:40-9:00

Enhancing Kidney Repair - TBD

9:00-9:20

Sensing the Pressure: Role of Mechanosensory Channels in Kidney Damage in AKI and CKD - Mark Okusa

9:20-9:40

Cellular and Mitochondrial Dysfunction: Targets for Intervention? - Vincenzo Cantaluppi

9:40-10:00

Discussion

10:00-10:15

*Coffee Break***PLENARY 2 Bench to Bedside: Translating Discoveries to Clinical Care***Non-CME**Co-Chairs: Mark Okusa and Volker Vallon*

10:15-10:35

Development as a Biological Variable in Experimental Models of AKI - Danielle Soranno

10:35-10:55

The Role of ORAI-1 in AKI - Sudarshan Hebbar

10:55-11:15

Insights for AKI from the Human Kidney Precision Medicine Project (KPMP)
Matthias Kretzler

11:15-11:35

Targeting Mitochondria and Metabolism in AKI - Mark Hepokoski

11:35-11:55

Metabolic Communication Through SGLT2 Inhibition - Volker Vallon

11:55-12:15

Discussion

12:15-1:15pm

*Lunch Hosted by Conference***PLENARY 3 Emerging Strategies for AKI Studies***Non-CME**Co-Chairs: Kathleen Liu and Sejoong Kim*

1:15-1:35

Nephrons of Steel: Exploring Kidney Fitness and Resistance to Acute Kidney Injury
Dana Fuhrman

1:35-1:55

Clinical Trial Endpoints for AKI: Consensus Recommendations from ADQI - Lui Forni

1:55-2:15

Bayesian Methods: A Potential Path forward for ICU Trials - John Kellum

2:15-2:35

In-Silico Trials in AKI and Sepsis - Gianluca Villa

2:35-2:55

Drug-Induced Acute Kidney Injury Risk Prediction Models - Linda Awdishu

2:55-3:15

Discussion

3:15-3:30

*Coffee Break***PLENARY 4 Evolving Paradigms: Lessons from Ongoing Trials***Non-CME**Co-Chairs: Nuttha Lumlertgul and Ron Wald*

3:30-3:50

Design and Conduct of the COPE AKI Study: What are we Learning? - Ivonne Schulman
Selective Cell Cytopheretic Device for AKI - Stuart Goldstein

3:50-4:10

4:10-4:30

Towards Health Care Metaverse: Digital Twins in the ICU - Azra Bihorac

4:30-4:50

Refining Inclusion Criteria for AKI Clinical Trials - Glenn Chertow

4:50-5:10

Tackling Heterogeneity: Phenotyping for Hemadsorption - Kent Doi

5:10-5:30

Discussion

5:30

Adjourn

5:30-7:30pm

Monday Evening Reception & Poster Review - *For All Conference Attendees*