



# AKI - CRRT - ECOS

## Critical Care Nephrology

JUNE 11-13 2024  
VICC - CONVENTION CENTRE  
VICENZA, ITALY



# PRELIMINARY SCIENTIFIC PROGRAM

## PLENARY ROOM GIOTTO

Joint session SIN - IRRIV for young investigators

Chairs: *S. Bianchi - V. Cantaluppi*

14.30 Selected Poster Oral Presentation

Poster 1 to 10 (5 minutes each poster)

## ROOM GIOTTO - GREEN CRRT

Chairs: *R. Mehta - A. Brendolan*

15.30 Can we do a green CRRT? *M. Ostermann*

15.50 Technical solutions for a green CRRT  
*A. Lorenzin*

16.10 Limiting costs in CRRT prescription and  
delivery *R. Murugan*

16.30 Discussion

## ROOM TIZIANO a - MONITORING KIDNEY FUNCTION

Chairs: *L. Forni - A. Zarbock*

15.30 Real time GFR *S. Goldstein*

15.50 Glomerular RFR *C. Ronco*

16.10 Tubular RFR *V. Cantaluppi*

16.30 Discussion

## ROOM TIZIANO b - NEWS IN PEDIATRIC CRRT

Joint session Cincinnati Children's Hospital/IRRIV

Chairs: *D. Fuhrman - A. Deep*

15.30 Anticoagulation in pediatric CRRT  
*A. Deep*

15.50 Pediatric hemoadsorption registry  
*G. Ceschia*

16.10 A novel selective cytopheretic device  
*S. Goldstein*

16.30 Discussion

## ROOM GIOTTO - NUTRITION AND METABOLISM

Chairs: *G. Villa - M. Zanella*

16.50 Pharmacological interventions for  
mineral metabolism in AKI/CRRT  
*M. Cozzolino*

17.10 Nutritional adjustments during CRRT  
*S. De Rosa*

17.30 Higher protein intake in AKI - is it toxic?  
*R. Bellomo*

17.50 Discussion

## ROOM TIZIANO a - AKI DIAGNOSIS

Chairs: *K. Kashani - P. Murray*

16.50 Creatinine as a biomarker in the critically  
ill *R. Bellomo*

17.10 From creatinine to biomarkers: new  
options *A. Zarbock*

17.30 HMGB1: Prognostic factor for mortality in  
AKI and RRT *K. Doi*

17.50 Discussion

## ROOM TIZIANO b - NEWS in PEDIATRIC CRRT AND PROCEEDINGS FROM PPETS

Joint session Texas Children's Hospital-Baylor College of  
Medicine/IRRIV

Chairs: *A. Akcan Arikan - D. Fuhrman*

16.50 New pediatric technology in extracorporeal  
blood purification *A. Akcan Arikan*

17.10 Paracorporeal and Extracorporeal  
Therapies Summit (PPETS)- Rationale  
and Evolution *S. Thadani*

17.30 Standardization in Pediatric Extracorporeal  
Therapies-A report from PPETS  
*K. Dolan*

17.50 Discussion

18.00 - 18.30 Industry - Sponsored Sessions

## ROOM GIOTTO - OPENING CEREMONY

18.30 **Special lecture:** VIP patients in ICU: from the Pope to the Prime Minister - *M. Antonelli*

42 years of Vicenza Courses - *C. Ronco*

•The International Vicenza Award 2024

•Best Abstract Award

•IRRIV 30 years Anniversary and fellows' recognition

•Scientific partners recognition

The International Society of Critical Care Nephrology - *L. Forni*

**PLENARY ROOM GIOTTO - Hector Wong, MD Memorial Special Lecture**

8.30 Age is more than just a number: a precision medicine framework for pediatric Sepsis-Associated AKI

*N. Stanski*

**ROOM GIOTTO - AKI PATHOPHYSIOLOGY**

Joint session University of Alabama/IRRIV

Chairs: *D. Soranno - S. Goldstein*

9.10 Complement mediated kidney damage  
*S. Samoni*

9.30 Complement blockade in cardiac surgery to prevent AKI  
*T. Reis*

9.50 AKI in vasculitis, RPGN & thrombotic microangiopathies  
*A. Pani*

10.10 AKI in trauma  
*A. Tolwani*

10.30 Discussion

**ROOM TIZIANO a - CURRENT ISSUES IN CCN**

Chairs: *M. Rosner - A. Brendolan*

9.10 Literature review in Critical Care Nephrology  
*Discussants: S. Bagshaw & K. Kashani*

9.50 Persistent AKI  
*H. Gomez*

10.10 Evolution of AKI and post-AKI care  
*E. See*

10.30 Discussion

**ROOM TIZIANO b - ADQI XXXI RESULTS**

Chairs: *M. Ostermann - J. Kellum*

9.10 End points for clinical trials  
*A. Zarbock*

9.30 Search of evidence: RCT or other?  
*J. Kellum*

9.50 How to design a good AKI trial  
*L. Forni*

10.10 Negative clinical trials: door to nihilism?  
*R. Bellomo*

10.30 Discussion

10.40 - 11.00 COFFEE BREAK

**ROOM GIOTTO - ONCONEPHROLOGY**

Joint session University of Virginia/IRRIV

Chairs: *A. Pani - L. Forni*

11.00 Onconephrology and AKI  
*M. Rosner*

11.20 Managing AKI in cancer patients  
*M. Ostermann*

11.40 Chemotherapy dosing and AKI prevention in cancer patients  
*P. Lentini*

12.00 Remote ischemic preconditioning in intra-abdominal cancer surgery  
*L. Forni*

12.20 Discussion

**ROOM TIZIANO a - GENDER ISSUES and HEALTH DISPARITIES**

Joint session University of Indiana/IRRIV

Chairs: *A. Brendolan - D. Soranno*

11.00 Health disparities in critical care nephrology  
*E. See*

11.20 Pregnancy-Associated AKI. Report from ADQI XXXII  
*R. Mehta*

11.40 Report from ADQI XXXIII  
*D. Soranno*

12.00 The role of sex and gender across the 5 R's of AKI  
*D. Fuhrman*

12.20 Discussion

**ROOM TIZIANO b - MEDIATORS IN AKI and SEPSIS**

Chairs: *J. Prowle - W. Clark*

11.00 Role of oxidant stress in AKI and sepsis  
*F. Galli*

11.20 Role of endotoxin in sepsis-associated AKI  
*J. Kellum*

11.40 Role of extracellular vesicles in sepsis-associated AKI  
*V. Cantaluppi*

12.00 Role of cytokines in sepsis-associated AKI  
*H. Gomez*

12.20 Discussion

12.30 - 13.00 LUNCH BREAK

13.00 - 14.30 Industry - Sponsored Sessions

**ROOM GIOTTO - UPDATE ON BIOMARKERS**

Chairs: *A. Zarbock - M. Plebani*

14.30 TIMP2/IGFBP7  
*A. Zarbock*

14.45 NGAL  
*S. Goldstein*

15.00 CCL14  
*J. Kellum*

15.15 PenKid  
*C. Ronco*

15.30 Biomarkers in pediatric patients  
*Z. Ricci*

15.50 Discussion

**ROOM TIZIANO a - SEPSIS-ASSOCIATED AKI**

Joint session UPMC/IRRIV

Chairs: *S. Bagshaw - V. Cantaluppi*

14.30 SA-AKI: report from ADQI XXVIII  
*L. Forni*

14.50 SA-AKI in Australia: large scale epidemiology  
*E. See*

15.10 Pathophysiology of sepsis-associated AKI  
*H. Gomez*

15.30 The promise of Sodium Ascorbate  
*R. Bellomo*

15.50 Discussion

**ROOM TIZIANO b - DRUGS AND EXTRACORPOREAL THERAPIES**

Joint session University College Dublin/IRRIV

Chairs: *A. Tolwani - A. Lorenzin*

14.30 Pharmacological management during hemoadsorption  
*P. Murray*

14.50 PFAS adsorption by neutral-macroporous resins  
*A. Brendolan*

15.10 Vancomycin-functionalized sorbent in sepsis: a new approach?  
*A. Lorenzin*

15.30 Pharmacokinetics of continuous magnesium infusion in critically ill patients  
*E. See*

15.50 Discussion

**ROOM GIOTTO - CRITICAL CARE NEPHROLOGY PRACTICE PATTERNS**

Joint session CRRT Inc/IRRIV

Chairs: *S. De Rosa - S. Bagshaw*

16.00 Practice variation in CRRT  
*R. Bellomo*

16.20 Value-based care for AKI: the time has come  
*R. Mehta*

16.40 Ethics vs costs in innovation  
*C. Ronco*

17.00 TBD

17.20 Discussion

**ROOM TIZIANO a - DRUGS IN AKI**

Joint session UPMC/IRRIV

Chairs: *P. Murray - D. Fuhrman*

16.00 Pharmacological approaches in sepsis-associated AKI  
*H. Gomez*

16.20 RELIEVE-AKI trial update  
*R. Murugan*

16.40 Pharmacological trial design in AKI  
*P. Murray*

17.00 AI and Machine Learning in Critical Care Nephrology  
*W. Cheungpasitporn*

17.20 Discussion

**ROOM TIZIANO b - CARDIO-RENAL INTERACTIONS**

Chairs: *C. Zoccali - M. Zanella*

16.00 Novel Approaches to Cardiorenal Medicine; a look to our future with Nano-engineering  
*A. Whaley-Connell*

16.20 Fluid management in cardiorenal syndromes  
*A. Kazory*

16.40 Atrial fibrillation in AKI/CKD: detection and management  
*F. Ronco*

17.00 Echocardiographic evaluation: new insights  
*P. Lentini*

17.20 Discussion

17.30 ADJOURN

**PLENARY ROOM GIOTTO: Special lecture**

8.30 Artificial intelligence applied to Critical Care Nephrology

*K. Kashani*

**ROOM GIOTTO - GREEN AND SUSTAINABLE AKI CARE**

Chairs: *A. Kazory - S. De Rosa*

- 9.00 Greening critical care: The role of EBP  
*R. Mehta*
- 9.20 Permissive low-dose CRRT *A. Zarbock*
- 9.40 Silica trials in AKI and sepsis *G. Villa*
- 10.00 Discussion

**ROOM TIZIANO a - CRRT MEMBRANES AND SORBENTS**

Joint session Purdue University College of Engineering/IRRIV

Chairs: *A. Tolwani - T. Rimmelé*

- 9.00 Membranes characteristics and transport mechanisms in CRRT *W. Clark*
- 9.20 CRRT membranes: from expanded permeability to functionalization *C. Ronco*
- 9.40 Sorbents: characteristics and applications *T. Reis*
- 10.00 Discussion

**ROOM TIZIANO b - AKI REPAIR AND RECOVERY**

Chairs: *L. Forni - F. Husain Syed*

- 9.00 **Special lecture:** Renal progenitor cells and mechanisms of repair after AKI  
*P. Romagnani*
- 9.40 Clinical patterns of renal recovery after AKI  
*J. Kellum*
- 10.00 Discussion

10.10 - 10.30 COFFEE BREAK

**ROOM GIOTTO - PLASMA EXCHANGE, APHERESIS AND EX VIVO ORGAN PERFUSION**

Chairs: *H. Gomez - V. Premužić*

- 10.30 How to protect the transplanted kidney during and after surgery? *S. Romagnoli*
- 11.00 Impact of Hemadsorption in heart Transplantation: Result from a RCT  
*E. Nemeth*
- 11.20 A new frontier in Liver Transplantation: the Ex Situ Perfusion *X. Muller*
- 11.40 Non-nephrological indications for therapeutic plasma exchange  
*V. Premužić*
- 12.00 Therapeutic Plasma Exchange in Children  
*D. Fuhrman*
- 12.20 Discussion

**ROOM TIZIANO a - DIAGNOSIS AND AKI TO CKD TRANSITION**

Chairs: *R. Mehta - P. Romagnani*

- 10.30 **Special Lecture:** AKI and lung disease: the potential of lung ultrasound for disease detection and follow up  
*C. Zoccali*
- 11.00 Renal recovery patterns *L. Forni*
- 11.20 Mechanisms of AKI to CKD transition  
*S. Samoni*
- 11.40 Can we prevent transition from AKI to CKD by better RRT? *R. Bellomo*
- 12.00 Pharmacologically managing the triad: Diabetes-CKD-CVD  
*M. Rosner*
- 12.20 Discussion

**ROOM TIZIANO b - MULTIPLE ORGAN SUPPORT & TECHNOLOGY**

Chairs: *G. Villa - A. Tolwani*

- 10.30 **Special lecture:** Technology in children and adults: who comes first?  
*S. Goldstein*
- 11.00 ECCO2R where are we? *F. Husain Syed*
- 11.20 CRRT and ECMO *A. Schneider*
- 11.40 Extracorporeal liver support *J. Prowle*
- 12.00 Using big data for CRRT quality control  
*S. Bagshaw*
- 12.20 Discussion

12.30 - 13.00 LUNCH BREAK

13.00 - 14.30 Industry - Sponsored Sessions

**ROOM GIOTTO - SPECIAL CLINICAL SCENARIOS**

Joint session University of Melbourne/IRRIV

Chairs: *M. Rosner - C. Zoccali*

- 14.30 AKI in renal and non-renal solid organ transplantation *V. Cantaluppi*
- 14.50 Role of congestion in AKI *F. Husain Syed*
- 15.10 IV fluids in critical care patients *E. See*
- 15.30 Treating congestion with CRRT: what net ultrafiltration in CRRT? *R. Bellomo*
- 15.50 Clinical complications in CRRT *A. Tolwani*
- 16.10 Determining futility in critical care  
*S. Bagshaw*
- 16.30 Discussion

**ROOM TIZIANO a - ADSORPTION IN CRITICAL ILLNESS**

Chairs: *A. Schneider - J. Prowle*

- 14.30 Hemoabsorption in critical illness  
*R. Bellomo*
- 14.50 The importance of endo-phenotype  
*J. Kellum*
- 15.10 The candidate endotype for adsorption in sepsis  
*C. Ronco*
- 15.30 Hemoabsorption in burns *T. Rimmelé*
- 15.50 Double Plasma Molecular Adsorption System for liver failure  
*T. Reis*
- 16.10 Sequential extracorporeal therapies in SA-AKI  
*G. Villa*
- 16.30 Discussion

**ROOM TIZIANO b - DIGITAL HEALTH & ICU MANAGEMENT**

Joint session Mayo Clinic/IRRIV

Chairs: *A. Pani - K. Kashani*

- 14.30 **Special lecture:** Generative AI and Chat bot Utilization in Critical Care Nephrology  
*W. Cheungpasitporn*
- 15.10 Digital health solutions for AKI detection and triaging  
*K. Kashani*
- 15.30 Automatic data collection from machine in CRRT  
*A. Akcan Arikan*
- 15.50 Monitoring urine biochemistry in critically ill  
*S. Romagnoli*
- 16.10 Multiorgan POCUS in AKI  
*G. Romero Gonzalez*
- 16.30 Discussion

17.00 ADJOURN

JUNE 13



"ERA's endorsement is for the promotion of education in general, therefore the specific content of the event/course is the responsibility of the organiser"



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