



IRRIV
International
Renal Research
Institute Vicenza



AKI-CRRT-EBPT

Critical Care Nephrology

SCIENTIFIC PROGRAM

JUNE 24-26 2025
VICENZA - ITALY



PLENARY ROOM GIOTTO 8.30 Opening remarks: Claudio Ronco 8.35 Keynote Lecture: Critical Care Nephrology in the era of Artificial Intelligence. K. Kashani		
ROOM GIOTTO - KIDNEY DYSFUNCTION AND INJURY Chairs: J. Kellum - C. Ronco 9.10 Monitoring renal and urinary oxygenation R. Bellomo 9.30 Monitoring kidney injury: What parameters and biomarkers? J. Kellum 9.50 Detecting renal dysfunction: from creatinine to stress test and real time GFR S. Goldstein 10.10 Overcoming a Poor Gold Standard – New (pen)Kid on the Block L. Forni 10.30 Discussion	ROOM TIZIANO a - ADQI NOMENCLATURE UPDATE: FLUID BALANCE AND NET UF Chairs: G. Ramirez Guerrero – T. Reis 9.10 The components of fluid balance in the critically ill R. Mehta 9.30 Fluid management: Nomenclature in CRRT G. Villa 9.50 Net Ultrafiltration. Can we finally agree on definition? T. Reis 10.10 NUF, cardiac index, and relative blood volume during CRRT R. Bellomo 10.30 Discussion	ROOM TIZIANO b - ONCONEPHROLOGY: RESULTS FROM ADQI XXXIV Joint UVA- IRRIV Session Chairs: A. Pani – P. Lentini 9.10 Keynote lecture: AKI in cancer patients: epidemiology and issues M. Rosner 9.50 Onconephrology: ADQI XXXIV statements and resolutions A. Pani 10.10 Research agenda in Onconephrology M. Floris 10.30 Discussion
10.40—11.00 COFFEE BREAK		
ROOM GIOTTO - DEBATES ON SPECIAL TOPICS Chairs: C. Ronco – K. Kashani 11.00 Debate: Managing AKI: novel biomarkers vs UOP and creatinine J. Kellum and R. Bellomo 11.45 Debate: CRRT Start: general rules vs personalization S. Bagshaw and L. Forni 12.20 Discussion	ROOM TIZIANO a - AKI CLINICAL PICTURES Chairs: V. Cantaluppi – S. Goldstein 11.00 The spectrum of AKI from pre-clinical to stage 3 F. Husain-Syed 11.20 Let’s understand persistent AKI and AKD H. Gomez 11.40 Recovery patterns and post-AKI follow up in pediatrics D. Cooper 12.00 AKI to CKD transition G. Castellano 12.20 Discussion	ROOM TIZIANO b - GENDER ISSUES AND ADQI XXXIII STATEMENTS ADQI/IRRIV Joint Session 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 Rs of AKI D. Fuhrman 12.20 Discussion
12.30—13.00 LUNCH BREAK		
13.00—14.30 Industry Sponsored Sessions		
ROOM GIOTTO - KIDNEY FUNCTION IN THE CRITICALLY ILL CACN/IRRIV Joint Session Chairs: A. Brendolan – S. Goldstein 14.30 Real-Time Monitoring of GFR in the OR and ICU S. Goldstein 14.50 Glomerular and tubular Renal Functional Reserve V. Cantaluppi 15.10 Renal Functional Reserve – Is it Ready for Prime-Time D. Cooper 15.30 Renal Functional Reserve in congenital heart diseases D. Fuhrman 15.50 Discussion	ROOM TIZIANO a - METABOLIC AND NUTRITIONAL ASPECTS SIAARTI/IRRIV Joint Session Chairs: S. De Rosa – S. Romagnoli 14.30 Metabolic disorders in AKI S. Romagnoli 14.50 Nutritional aspects in AKI and CRRT S. De Rosa 15.10 Usual feeding or trophic feeding in ICU: TARGET PROTEIN intake R. Bellomo 15.30 Increasing protein intake - is it worth the EFFORT or should we be PRECise S. Bagshaw 15.50 Discussion	ROOM TIZIANO b - CRRT PRACTICE IN 2025 Chairs: A. Tolwani – G. Villa 14.30 Literature review and ongoing trials in Critical Care Nephrology K. Kashani 15.10 Unanswered question in RRT. What future trials? L. Forni 15.30 Whose values will be served? Involving patients in decision-making J. Kellum 15.50 Discussion
ROOM GIOTTO - BIOENGINEERING AND BIOMATERIALS Purdue University/IRRIV/UNIPD joint session Chairs: W. Clark – D. Soranno 16.00 Membranes and sorbents: the bioengineer perspective W. Clark 16.20 Pediatric medical device design across different organ systems D. Soranno 16.40 Machine learning methods applied to ultrasound and contrast-enhanced CT images J. Kim 17.00 Hybrid materials for cardiovascular applications A. Bagno 17.20 Discussion	ROOM TIZIANO a - PHARMACOLOGICAL INTERVENTIONS TO SLOW PROGRESSION OF CKD AND CVD Chairs: A. Whaley Connell – J. Neyra 16.00 Role of pharmacist in critical care nephrology L. Awdishu 16.20 Amino acids and CKD in cardiac surgery R. Bellomo 16.40 Blood pressure, glycemic and weight control M. Rosner 17.00 Future directions in arresting disease progression A. Whaley Connell 17.20 Discussion	ROOM TIZIANO b - ECOS ACADEMY Joint IRRIV/ECOS Academy session Chairs: T. Rimmelé – L. Forni 16.00 A parallel rapid removal of pathogens a and circulating tumor cells with hemoadsorption V. Premužić 16.20 Combined cytokine and endotoxin removal A. Lorenzin 16.40 CRRT and Hemoadsorption combined with ECMO A. Schneider 17.00 Extracorporeal Liver Support J. Prowle 17.20 Discussion
ROOM GIOTTO—Joint session SIN/IRRIV Chairs: V. Cantaluppi - D. Soranno 17.30 Selected Poster Oral Presentation	17.30—18.30 Industry Sponsored Sessions	
ROOM GIOTTO - OPENING CEREMONY	18.30 Keynote Speech: Kidney in a chip L. Perin	

15.00 - 17.30

ROOM CANOVA

(NO EMC)

PoCUS Workshop

JUNE 25	PLENARY ROOM GIOTTO - Hector Wong, MD Memorial Special Lecture Chair: <i>S. Goldstein</i> 8.30 The Current State of Sepsis (Research?) – A Definition and Pathophysiology at Odds <i>A. Akcan Arikan</i>		
	ROOM GIOTTO - CARDIORENAL INTERACTIONS: NEW INSIGHTS Chairs: <i>A. Whaley Connell – K. Gist</i> 9.10 Cardiorenal syndrome revisited <i>A. Kazory</i> 9.30 Inflammation/congestion pathways <i>G. Ramirez Guerrero</i> 9.50 Management of AKI and Refractory Cardiorenal Syndrome <i>F. Husain-Syed</i> 10.10 Renal outcomes in cardiac Cath-lab procedures <i>F. Ronco</i> 10.30 Discussion	ROOM TIZIANO a - AKI AND BEYOND Chairs: <i>V. Cantaluppi—D. Selewski</i> 9.10 Unraveling AKI terminology and concepts <i>J. Kellum</i> 9.30 The impact of point of care creatinine on the epidemiology of AKI <i>R. Bellomo</i> 9.50 Patterns of AKI recovery and non-recovery (AKI-AKD-CKD) <i>L. Forni</i> 10.10 Post AKI Clinic <i>E. See</i> 10.30 Discussion	ROOM TIZIANO b - HANDS ON CRRT Joint University of Alabama/IRRIV Chairs: <i>A. Tolwani—G. Villa</i> 9.10 When I start CRRT <i>S. Bagshaw</i> 9.30 How do I prescribe CRRT <i>A. Tolwani</i> 9.50 How do I choose CRRT technique <i>G. Villa</i> 10.10 How do I monitor CRRT <i>T. Rimmelé</i> 10.30 Discussion
	10.40—11.00 COFFEE BREAK		
	ROOM GIOTTO - NEW CARDIORENAL PROTECTION STRATEGIES Chairs: <i>F. Ronco—F. Husain Syed</i> 11.00 Pharmacological options in CRS <i>A. Kazory</i> 11.20 SGLT-2 inhibitors in hospitalized patients <i>R. Bellomo</i> 11.40 Non-steroidal MRA and GLP1RA in Cardiorenal syndromes <i>A. Whaley Connell</i> 12.00 Complement blockade in AKI and CRS <i>G. Castellano</i> 12.20 Discussion	ROOM TIZIANO a - SEPSIS AND SEPSIS-ASSOCIATED AKI Chairs: <i>T. Reis—T. Rimmelé</i> 11.00 Oxidant stress and hemoadsorption in critical illness <i>G. Ramirez Guerrero</i> 11.20 Endotoxin in sepsis-associated AKI: Tigris update <i>J. Kellum</i> 11.40 Role of extracellular vesicles in SA-AKI <i>V. Cantaluppi</i> 12.00 Pathophysiology of sepsis-associated AKI <i>H. Gomez</i> 12.20 Discussion	ROOM TIZIANO b - THE KIDNEY DURING EXTRACORPOREAL SUPPORT Society of CCN/IRRIV joint session Chairs: <i>L. Forni—V. Premužić</i> 11.00 The Kidney during CRRT: when to stop extracorporeal support? <i>L. Forni</i> 11.20 The Kidney in ECMO <i>D. Selewski</i> 11.40 The kidney during temporary mechanical cardiac support <i>A. Shaw</i> 12.00 Management of antibiotics during CRRT and hemoadsorption: myths and facts <i>G. Klinkmann</i> 12.20 Discussion
	12.30—13.00 LUNCH BREAK		
	13.00—14.30 Industry Sponsored Sessions		
	ROOM GIOTTO - LUNG-KIDNEY INTERACTION ESICM/IRRIV joint session Chairs: <i>M. Ostermann—S. De Rosa</i> 14.30 Lung-Kidney crosstalk <i>M. Ostermann</i> 14.50 Managing combined renal and respiratory dysfunction <i>F. Husain-Syed</i> 15.10 Extracorporeal CO2 removal: indications and management <i>G. Grasselli</i> 15.30 Lung – heart – Kidney interaction in Pediatrics <i>K. Gist</i> 15.50 Discussion	ROOM TIZIANO a - NEONATAL AND PEDIATRIC CRRT CCHMC/IRRIV Joint session Chairs: <i>D. Cooper—S. Goldstein</i> 14.30 Lessons learned from building neonatal CRRT programs <i>S. Menon</i> 14.50 Instituting and maintaining a CRRT Quality improvement program <i>J. Neyra</i> 15.10 Impact of fluid balance on outcomes in critical care nephrology <i>S. Goldstein</i> 15.30 Pediatric ECMO and CRRT <i>A. Akcan Arikan</i> 15.50 Discussion	ROOM TIZIANO b - BIOMARKERS UPDATE Chairs: <i>A. Zarbock—J. Prowle</i> 14.30 Update on AKI biomarkers <i>A. Zarbock</i> 14.50 Biomarkers of Kidney Fitness: Predicting subacute kidney disease <i>D. Fuhrman</i> 15.10 Metanalyses for biomarkers: can they be trusted? <i>J. Kellum</i> 15.30 Renin as a biomarker for shock management <i>R. Bellomo</i> 15.50 Discussion
	ROOM GIOTTO - BRAIN-KIDNEY INTERACTION AND MOF Chairs: <i>L. Awdishu—S. Bagshaw</i> 16.00 AKI and delirium <i>S. Bagshaw</i> 16.20 AKI in brain injury (TBI + non-TBI injury) <i>J. Prowle</i> 16.40 Pharmacology in AKI + brain injury <i>L. Awdishu</i> 17.00 RRT and Hemoadsorption in neurocritical care patients <i>G. Ramirez Guerrero</i> 17.20 Discussion	ROOM TIZIANO a - EXTRACORPOREAL THERAPEUTIC OPTIONS IN ICU UPMC/IRRIV joint session Chairs: <i>H. Gomez—M. Zanella</i> 16.00 New indications for hemoadsorption therapy <i>M. Marcello</i> 16.20 Managing endotoxemia with hemoadsorption <i>J. Kellum</i> 16.40 The candidate endotype for adsorption in sepsis <i>H. Gomez</i> 17.00 Therapeutic Plasma Exchange in Children <i>D. Fuhrman</i> 17.20 Discussion	ROOM TIZIANO b - GREEN AND SUSTAINABLE CRITICAL CARE NEPHROLOGY ESICM/IRRIV Joint session Chairs: <i>M. Ostermann—L. Forni</i> 16.00 CRRT in 2025: possible green solutions <i>M. Ostermann</i> 16.20 Green CRRT: technical options and solutions <i>A. Lorenzin</i> 16.40 Changing from Paper to Digital. e-prescribing CRRT for AKI <i>I. Baldwin</i> 17.00 Green device development <i>G. Gavioli</i> 17.20 Discussion

10.00 - 12.30

ROOM CANOVA

(NO EMC)

PoCUS Workshop

15.00 - 17.30

ROOM CANOVA

(NO EMC)

PoCUS Workshop

ROOM GIOTTO - ECMO IN CRITICAL CARE NEPHROLOGY

Chairs: *W. Cheungpasitporn—D. Soranno*

9.00 CRRT on ECMO: Safety, timing, and fluid removal *K. Gist*

9.20 AKI and Disorders of Fluid balance in adults treated with ECMO *K. Kashani*

9.40 The mechanics of CRRT in ECMO *T. Mottes*

10.00 Experience in neonates and pediatric ECMO *D. Selewski*

10.20 Discussion

ROOM TIZIANO a - ACCELERATING EVIDENCE-BASED PRACTICES IN AKI & CCN (HIGHLIGHTS OF ADQI XXXV)

Chairs: *O. Rewa—L. Awdishu*

9.00 Key concepts of implementation science applied to AKI/CCN care *B. Rabin*

9.20 Report of ADQI XXXV Consensus Statements *J. Neyra*

9.40 Case-examples of implementation/QI projects in AKI/CCN taken from ADQI XXXV *O. Rewa*

10.00 Accelerating Evidence-Based Practices in AKI & CCN: what's next? *R. Mehta*

10.20 Discussion

ROOM TIZIANO b - DIAGNOSIS, PREVENTION AND CRRT DOSE

Chairs: *E. See—I. Baldwin*

9.00 The urea/creatinine ratio *J. Prowle*

9.20 Role of ischemic preconditioning *A. Zarbock*

9.40 Dose-intensity in CRRT and alignment with CPB *A. Schneider*

10.00 Lower dose-intensity strategies - who, when and rationale *G. Villa*

10.20 Discussion

10.00 - 12.30
ROOM CANOVA

(NO EMC)

PoCUS
Workshop

10.30—10.50 COFFEE BREAK

ROOM GIOTTO - DIGITAL HEALTH & ICU MANAGEMENT

Mayo Clinic/IRRIV joint session

Chairs: *K. Kashani—P. Lentini*

10.50 Generative AI and Chatbot application in Critical Care Nephrology *W. Cheungpasitporn*

11.10 Specific Applications of Digital Health Solutions for AKI Management *K. Kashani*

11.30 Machine Data for CRRT use with AKI. Live and stored Data, how to get this and use it *I. Baldwin*

11.50 Using big data for CRRT quality control *O. Rewa*

12.10 Discussion

ROOM TIZIANO a - ELECTROLYTES IN ICU AND CRRT

Chairs: *D. Fuhrman—H. Gomez*

10.50 How should we manage potassium in ICU? *J. Prowle*

11.10 How should we manage magnesium in ICU? *A. Schneider*

11.30 How fast should we correct hypernatremia? *R. Bellomo*

11.50 How should we prevent and manage hypophosphatemia *T. Reis*

12.10 Discussion

ROOM TIZIANO b - THE FUTURE OF CRITICAL CARE NEPHROLOGY

Chairs: *J. Kellum—G. Villa*

10.50 From Volume to Value: Redefining AKI Care in Critical Nephrology *R. Mehta*

11.10 What membranes for CRRT in the future? *V. Cantaluppi*

11.30 What role for Adsorption in the future? *C. Ronco*

11.50 Gazing into a Crystal Ball: What Does the Future Hold for Critical Care Nephrology? *L. Forni*

12.10 Discussion

12.30 Adjourn

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