



AKI - CRRT - ECOS

Critical Care Nephrology

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



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 - A. Brendolan*

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
S. Thadani

17.10 Paracorporeal and Extracorporeal Therapies Summit (PPETS)- Rationale and Evolution
A. Akcan Arikan

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*

JUNE 11

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

Joint session University of Alberta/IRRIV

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 - ADQJ 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

10.00 - 12.30

ROOM CANOVA

(NO EMC)

PoCUS Workshop

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 ADQJ XXXII
R. Mehta

11.40 Report from ADQJ 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 - MEDIA-TORS 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
L. Forni

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 ADQJ 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

15.00 - 17.30

ROOM CANOVA

(NO EMC)

PoCUS Workshop

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 Kidney-ventilator interaction and kidney protective ventilation
S. Bagshaw

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

17.00 Ethics vs costs in innovation
C. Ronco

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

10.00 - 12.30
ROOM
CANOVA
(NO EMC)

10.10 - 10.30 COFFEE BREAK

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

Chairs: H. Gomez - V. Premuzić

- 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. Premuzić*
- 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

Joint session University of Alberta/IRRIV

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

PoCUS
Workshop

12.30 - 13.00 LUNCH BREAK

IRRIV SELECTED LECTURES



ROOM TIZIANO a

- 13.00 The role of albumin in clinical research revisited *G. Klinkmann*
- 13.25 How can we use biomarkers to predict AKI trajectory and outcome *J. Prowle*

ROOM TIZIANO b

- 13.00 Amino acids to recruit renal functional reserve in cardiac surgery: a phase III, double blind trial *R. Bellomo*
- 13.25 Pathogen Source Control in Different Clinical Settings *V. Premuzić*

ROOM GIOTTO - SPECIAL CLINICAL SCENARIOS

Joint session University of Melbourne/IRRIV

Chairs: M. Rosner - C. Zoccali

- 14.00 AKI in renal and non-renal solid organ transplantation *V. Cantaluppi*
- 14.20 Role of congestion in AKI *F. Husain Syed*
- 14.40 IV fluids in critical care patients *E. See*
- 15.00 Treating congestion with CRRT: what net ultrafiltration in CRRT? *R. Bellomo*
- 15.20 Clinical complications in CRRT *A. Tolwani*
- 15.40 Determining futility in critical care *S. Bagshaw*
- 16.00 Discussion

ROOM TIZIANO a - ADSORPTION IN CRITICAL ILLNESS

Chairs: A. Schneider - J. Prowle

- 14.00 Hemoadsorption in critical illness *R. Bellomo*
- 14.20 The importance of endo-phenotype *J. Kellum*
- 14.40 The candidate endotype for adsorption in sepsis *C. Ronco*
- 15.00 Hemoadsorption in burns *T. Rimmelé*
- 15.20 Double Plasma Molecular Adsorption System for liver failure *T. Reis*
- 15.40 Sequential extracorporeal therapies in SA-AKI *G. Villa*
- 16.00 Discussion

ROOM TIZIANO b - DIGITAL HEALTH & ICU MANAGEMENT

Joint session Mayo Clinic/IRRIV

Chairs: X. Ding - K. Kashani

- 14.00 **Special lecture:** Generative AI and Chat bot Utilization in Critical Care Nephrology *W. Cheungpasitporn*
- 14.40 Digital health solutions for AKI detection and triaging *K. Kashani*
- 15.00 Automatic data collection from machine in CRRT *A. Akcan Arikian*
- 15.20 Monitoring urine biochemistry in critically ill *S. Romagnoli*
- 15.40 Multiorgan POCUS in AKI *G. Romero Gonzalez*
- 16.00 Discussion

16.30 ADJOURN



"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"



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



ENDORSED BY

JUNE 13