

April 16, 2010

The Westin Edmonton, Edmonton, Alberta

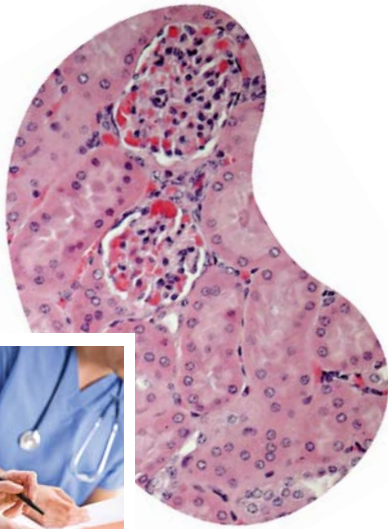
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UNIVERSITY OF
ALBERTA

AKI 2010

Acute Kidney Injury and Renal Support



Program

- 7:00 – 8:00 am Breakfast and Registration
North Foyer/BC/Alberta
- 8:00 – 8:10 am **Opening Remarks and Welcome**
Manitoba / Saskatchewan
- 8:10 – 8:50 am **KEYNOTE:** **The Emerging Landscape of Critical Care Nephrology**
Rinaldo Bellomo, Melbourne University
- 8:50 – 10:00 am **PLENARY PANEL #1:** **Acute Kidney Injury**
Moderators:
Curtis Johnston
Sean Bagshaw
Definition and Epidemiology
Ravindra Mehta, University of California
Diagnosis Using Novel Biomarkers
Prasad Devarajan, University of Cincinnati
Management and Interventions
Noel Gibney, University of Alberta
- 10:00 – 10:20 am Break and Poster Viewing
North Foyer
- 10:20 – 10:50 am **DEBATE:** **Fluid Management in AKI: "Fill and Spill" or "Squeeze and Diurese?"**
Moderator:
Noel Gibney
Rinaldo Bellomo vs. Ravindra Mehta
- 10:50 am – 12:10 pm **TRACK #1:** **Syndromes of Acute Kidney Injury**
Moderators:
Ravindra Mehta
Prasad Devarajan
Manitoba/Saskatchewan
Pediatric Acute Kidney Injury
Michael Zappitelli, McGill University
Severe Sepsis/Septic Shock
Rinaldo Bellomo, Melbourne University
Crush Injury and Rhabdomyolysis (Mass Casualty)
Geoffrey Sheinfeld, University of Maryland
Cardio-Renal Syndrome
Sean Bagshaw, University of Alberta

continued

10:50 am – 12:10 pm
continued

TRACK # 2:
Moderators:
Noel Gibney
Samantha Taylor
Turner Valley

Principles of Renal Support

Renal Support physiology
Adam Romanovsky, University of Alberta
Transitioning Modalities of Renal Support
Neesh Pannu, University of Alberta
Methods of Anticoagulation
Noel Gibney, University of Alberta
Patient Safety During Renal Support
Samantha Taylor, University of Alberta

12:10 – 1:10 pm

Lunch and Poster Viewing
North Foyer/BC/Alberta

1:10 – 1:40 pm

DEBATE:
Moderator:
Sean Bagshaw

Renal Support in the Hemodynamically Unstable Patient: Continuous or Prolonged Intermittent?
Rinaldo Bellomo vs. Ravindra Mehta

1:40 – 3:00 pm

TRACK # 1:
Moderator:
Ravindra Mehta
Manitoba/Saskatchewan

Advanced Renal Support in Critical Illness

Hemofiltration in Sepsis
Rinaldo Bellomo, Melbourne University
Hepato-Renal Syndrome/Extracorporeal Liver Support
Constantine Karvellas, University of Alberta
Renal Support in Brain Injury
Curtis Johnston, University of Alberta
Support for Pediatric TAMOF Syndrome
Michael Zappitelli, McGill University

TRACK # 2:
Moderator:
Samantha Taylor
Turner Valley

Principles of Renal Support II

Management of Intra-Dialytic Hypotension
Curtis Johnston, University of Alberta
CRRT and Sodium Disorders
Adam Romanovsky, University of Alberta
Trouble-Shooting Scenarios
Samantha Taylor, University of Alberta

3:00 – 3:20 pm

Break and Poster Viewing
North Foyer

3:20 – 4:30 pm

PLENARY PANEL # 2:
Moderators:
Rinaldo Bellomo
Michael Zappitelli
Manitoba/Saskatchewan

Renal Support in Critical Illness

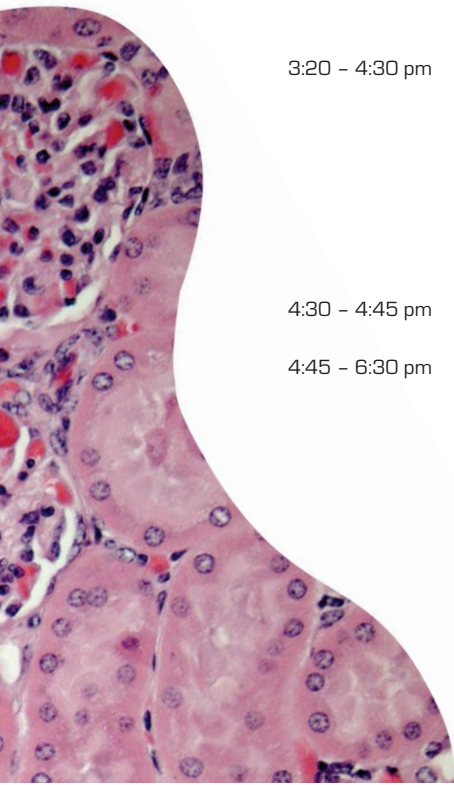
Renal Support Dose Intensity
Rinaldo Bellomo, Melbourne University
Antimicrobial Dosing during Renal Support
Sean Bagshaw, University of Alberta
Timing of Initiation of Renal Support
Sean Bagshaw, University of Alberta

4:30 – 4:45 pm

Closing Remarks

4:45 – 6:30 pm

Reception and Poster Viewing
North Foyer



Speakers

Sean Bagshaw, MD, MSc, FRCPC

Sean Bagshaw is an Assistant Professor in the Division of Critical Care Medicine at the University of Alberta in Edmonton, Alberta, Canada. He acquired training at the University of Calgary (Internal Medicine, Critical Care Medicine, Masters of Science Epidemiology) prior to completing a critical care nephrology fellowship in the Department of Intensive Care Medicine, at the Austin Hospital in Melbourne, Australia.

Dr. Bagshaw is funded by Alberta Innovates Health Solutions. His main research interests have focused on the clinical, epidemiological and translational issues related to acute kidney injury and the application of extracorporeal blood purification in critically ill patients. Dr. Bagshaw's current projects include diuretic therapy in early acute kidney injury, albumin dialysis in liver failure, and factors related with initiation of renal support in critically ill patients. He has published over 90 peer-reviewed papers, and numerous book chapters, and peer-reviewed for over 25 medical journals.

Dr. Bagshaw is a member of several organizations including the Canadian Critical Care Society, Canadian Critical Care Trials Group, Australia New Zealand Intensive Care Society, and the Acute Kidney Injury Network.

Rinaldo Bellomo, MBBS, MD, FRACP, FJFICM

A Professor of Medicine at Melbourne University, Rinaldo Bellomo has written extensively in the area of Renal Support, with hundreds of scientific papers and book chapters to his name. Prof. Bellomo is the Renal Section editor for all major Critical Care Medicine Textbooks, and the Founding Chair of the Australian and New Zealand Intensive Care (ANZIC) Society Clinical Trials Group, and is a Board Member for the ANZIC Research Centre.

Prasad Devarajan, MD

Prasad Devarajan is the Williams Endowed Chair, Professor of Pediatrics and Developmental Biology, Director of Nephrology and Hypertension, Director of Clinical Laboratories, and CEO of the Dialysis Unit at Cincinnati Children's Hospital Medical Center and University of Cincinnati. He has authored over 150 peer-reviewed publications, and serves on the Editorial and Review Boards for over 30 journals. He has been continuously funded by the National Institutes of Health and several other foundations for 20 years.

Dr. Devarajan's major research interests lie in the pathogenetic pathways, diagnostic biomarkers, and novel therapies of acute kidney injury. His laboratory has pioneered the discovery, translation, and validation of NGAL as a biomarker of acute kidney injury.

Noel Gibney, MD

Noel Gibney is the current Medical Director for the Regional Critical Care Program and Director for the Division of Critical Care Medicine, Faculty of Medicine, University of Alberta.

Along with the electronic ICU, Dr. Gibney has a special interest in shock trauma air rescue, serving as a board member since 2003. Other areas of interest include renal replacement therapy, improving patient safety and quality, and researching sepsis management and outcomes.

Curtis Johnston, MD, FRCPC

Curtis Johnston currently holds the administrative roles of Chief of Medicine and Critical Care at the Royal Alexandra Hospital in Edmonton, AB. His clinical roles are in the areas of Critical Care Medicine and Nephrology. Dr. Johnston is also an Associate Clinical Professor in Nephrology and Critical Care with the University of Alberta.

His clinical interests are acute kidney injury, fluid and electrolyte problems, renal replacement therapy and acute renal failure.

Constantine Karvellas, MD, FRCPC

Constantine Karvellas is an Assistant Clinical Professor of Medicine at the University of Alberta, Edmonton, Canada. He is a full-time Staff Specialist in Hepatology and Intensive Care Medicine. Prior to his critical care training, he completed a CIHR/CAG fellowship in Hepatic failure at King's College Hospital in London, UK. He has original research published in several major critical care and hepatology journals. His research interests include extra-corporeal liver support and the use of scoring systems in acute and acute on chronic liver failure.

Ravindra L. Mehta, MD, FACP, FASN

Ravindra Mehta is a Professor of Medicine in the Division of Nephrology and Associate Chair for Clinical Affairs in the Department of Medicine at the University of California, San Diego (UCSD) where he directs the Acute Dialysis Program. He is an internationally recognized expert in the field of acute renal failure and has directed several clinical studies in the management of patients with kidney disease. Dr. Mehta is also the Chair of the International Society of Nephrology Committee on Acute Kidney Injury, founding member of the Acute Dialysis Quality Initiative and the Acute Kidney Injury network (AKIN). He has authored or coauthored several scientific articles, papers and book chapters, and is actively involved in resident and scholar teaching. In 2003, he was awarded the School of Medicine Faculty teaching award. In 2008, he was recognized by the American Nephrologists of Indian Origin for his achievements in nephrology.

In March 2009, Dr. Mehta was elected as a Fellow of the Royal College of Physicians in the UK. He has been on the faculty at San Diego since 1988.

Neesh Pannu, MD, SM, FRCPC

Neesh Pannu is an Associate Professor in the Division of Nephrology at the University of Alberta. She has a clinical and research interest in the epidemiology and management of acute kidney injury.

Adam Romanovsky, MD, FRCPC

Adam Romanovsky is a fellow in Critical Care medicine at the University of Alberta where he also completed his training in Internal Medicine and Nephrology. Aside from critical care nephrology, Dr. Romanovsky maintains a strong clinical interest in fluid and electrolyte disorders and international health.

Geoffrey Sheinfeld, MD

An Assistant Professor of Medicine at the University of Maryland, Geoffrey Sheinfeld works in the divisions of Pulmonary and Critical Care Medicine and Trauma Critical Care Medicine. Dr. Sheinfeld earned his Medical Degree at Boston University, and has interests in Critical Care Medicine, Nephrology, and Internal Medicine.

Samantha Taylor, RN, BSCN, CNCC(C)

Samantha Taylor is a Clinical Nurse Educator of Critical Care at the University of Alberta Hospital. She completed her training in 1991 at the University of Alberta and has worked in Edmonton, and overseas including Australia, and Saudi Arabia. She is a member of the Canadian Association of Critical Care Nurses and her interests include MARS (liver dialysis), CRRT and IHD, patient simulations for Mock code blue, and coordination and teaching ACLS courses.

Michael Zappitelli, MD, MSc

Michael Zappitelli practices Pediatric Nephrology at the Montreal Children's Hospital. He is the recipient of New Investigator salary awards and start-up grants from the Fondation de Recherche en Sante du Quebec (FRSQ) and the Kidney Research Scientist Core and National Training Program. After completing his training in Pediatric Nephrology and in Epidemiology and Biostatistics at McGill University, he completed a research fellowship in Pediatric Critical Care Nephrology at Texas Children's Hospital, Baylor College of Medicine, Houston, Texas. Dr. Zappitelli has performed research in estimating glomerular filtration rate in children, using serum creatinine and cystatin C-based equations; has published manuscripts on the use of early biomarkers of acute kidney injury in children and on the validation of a pediatric definition for acute kidney injury; and has written several book chapters on diagnosis and management of pediatric acute kidney injury and provision of acute renal replacement therapy. He continues to perform research in early biomarkers and on epidemiology and definition of pediatric acute kidney injury.

Conference Objectives

- Identify the emerging landscape of critical care nephrology
- Summarize the definition, epidemiology, diagnosis and management of Acute Kidney Injury.
- Review renal support as it applies to critical illness, specifically in dose intensity, timing of initiation, and antimicrobial dosing.
- Discuss continuous vs. prolonged intermittent renal support in the hemodynamically unstable patient
- Evaluate fluid management techniques in Acute Kidney Injury

Organizing Committee

Noel Gibney, University of Alberta (Chair)
Sean Bagshaw, University of Alberta
Dat Chin, University of Alberta
Curtis Johnston, Royal Alexandra Hospital
Ellen Reil, University of Alberta
Adam Romanovsky, University of Alberta
Samantha Taylor, University of Alberta (formerly)

Conference Secretariat

Buksa Conference Management and Program Development
Suite 307, 10328 - 81 Avenue NW
Edmonton AB T6E 1X2
aki@buksa.com
780-436-0983 Ext 229
www.buksa.com/aki

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