



Thursday October 21, 2021
9 am – 3:30 pm
Virtual Conference

Planning Committee

Raghavan Murugan, MD, MS Center for Critical Care Nephrology, Department of Critical Care Medicine
Thomas R. Kleyman, MD Pittsburgh Center for Kidney Research-O'Brien Center, Renal-Electrolyte Division
Fadi G. Lakkis, MD Thomas E. Starzl Transplantation Institute, Department of Surgery
Carlton Bates, MD UPMC Children's Hospital of Pittsburgh, Division of Nephrology

Symposium Purpose: To continue to foster cross-campus research collaboration on acute kidney injury and further AKI awareness, education and advocacy.

9:00-9:05am **Welcome** – Raghavan Murugan, MD, MS

Session 1 – Scientific Presentations

9:05-9:07 Introduction: Fadi Lakkis, MD

9:07-9:22 Preoperative Blood Pressure and Delayed Graft Function after Kidney Transplantation
Chethan Puttarajappa, MD, MS

9:22-9:37 Clinical Decision Support for Drug Associated AKI
Sandra Kane-Gill, PharmD, MS

9:37-9:52 Manipulating Fatty Acid Oxidation to Protect Against Acute Kidney Injury
Sunder Sims-Lucas, PhD

9:52-10:07 The Effect of Therapeutic Plasma Exchange on Kidney Outcomes in Pediatric Patients Requiring CKRT
Dana Fuhrman, DO, MS

10:07-10:22 B cell Cytokines and Renal Transplant Rejection
Aravind Cherukuri, MBBS, PhD, MRCP

10:22-10:32 Discussion/Q&A Moderator: Fadi Lakkis, MD

Session 2 – Abstract Presentations by Junior Investigators

10:32-10:34 Introduction: Carl Bates, MD

10:34-10:44 Chronic subclinical DNA damage in the kidney tubular epithelial cells leads to CKD
Merlin Airik, PhD

10:44-10:54 Kidney tubular AMP-activated protein kinase (AMPK) activation is protective against sepsis-associated acute kidney injury
Juan Toro, MD

10:54-11:04 Requirement for antigen in the maintenance of resident memory T cells in chronic renal allograft rejection
Roger Tieu, medical student

11:04-11:14 Causal Association of Net Ultrafiltration Rate with Survival in Critically Ill Patients
Rahul Bollam, MD

11:14-11:24 Dietary supplementation protects mice from AKI via decreased energy pathways
Anne Barbosa, PhD

11:24-11:34 Discussion/Q&A Moderator: Carl Bates, MD

11:34-12:00 **Abstract Voting/Lunch Break**

Session 3 – Keynote Speakers

12:00-12:05 Introduction of Azra Bihorac, MD, MS: Raghavan Murugan, MD, MS

12:05-12:35 **Keynote Address: Perioperative Acute Kidney Injury**

*Azra Bihorac, MD, MS, R. Glen Davis Professor of Medicine, Surgery and Anesthesiology
University of Florida*

12:35-12:45 Q&A Moderator: Raghavan Murugan, MD, MS

12:45-12:50 Introduction of Sylvie Breton, PhD: Thomas Kleyman, MD

12:50–1:20 **Keynote Address: B Cell Cytokines and Renal Transplant Rejection**

*Sylvie Breton, PhD, Emeritus Professor, Harvard Medical School
Professor of Medicine, Université Laval, Canada Research Chair in Epithelial Dynamics
of Kidney and Reproductive Organs*

1:20-1:30 Q&A Moderator: Raghavan Murugan, MD, MS

1:30-1:35 **Announcement of Abstract Awards** Raghavan Murugan, MD, MS

Session 4 – Scientific Presentations

1:35-1:37 Introduction: Fadi Lakkis, MD

1:37-1:52 Kidney Precision Medicine Project Update
Paul Palevsky, MD

1:52-2:07 Cell-free plasma hemoglobin and renal injury in extracorporeal therapy
Nahmah Kim-Campbell, MD, MS

2:07-2:22 Non-septic Acute Kidney Injury and De Novo Sepsis in Critically Ill Children
Cassandra Formeck, MD, MS

2:22-2:37 Harnessing Remote Ischemic Preconditioning as a Preventive Therapy for Contrast-associated Acute Kidney Injury
Oladipupo Olafiranye, MD

2:37-2:47 Discussion/Q&A Moderator: Carl Bates, MD

Session 5 – COVID-19

2:47-2:49 Introduction: Thomas Kleyman, MD

2:49-2:59 COVID-19 Update
Graham Snyder, MD, MS

2:59-3:09 REMAP-CAP: COVID
David Huang, MD, MSc

3:09-3:19 COVID-19 Vaccine Update
Paul Duprex, PhD

3:19-3:30 Panel Discussion & Q&A / Moderator: Thomas Kleyman, MD

3:30 **Close Symposium:** Raghavan Murugan, MD, MS



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Program Overview, Learning Objectives, Target Audience

This symposium will promote the clinical knowledge related to diagnosis and personalized treatment of acute kidney injury (AKI). It will help to improve the care of critically ill patients who develop or are at risk for AKI. It will also promote communication and collaboration among experts and specialists treating and researching acute kidney injury. The understanding of AKI and the effective strategies for developing, implementing, and performing protocols for managing the condition will be enhanced. The symposium is targeted for doctors, fellows, researchers, and professionals in the medical and research fields of critical care medicine, transplantation, nephrology, and the renal-electrolyte division. The symposium also serves as a platform to spread kidney awareness and to educate and share resources with patients and the community.

Faculty Listing

1. Carlton Bates, MD – University of Pittsburgh; Chief, Division of Nephrology; UPMC Children’s Hospital of Pittsburgh; Pittsburgh, PA
2. Azra Bihorac, MD, MS – University of Florida; Glen Davis Professor of Medicine, Surgery and Anesthesiology, Department of Medicine, Division of Nephrology, Hypertension and Renal Transplantation, Gainesville, FL
3. Sylvie Breton, PhD – Université Laval; Professor of Medicine, Canada Research Chair in Epithelial Dynamics of Kidney and Reproductive Organs, Department of Obstetrics and Gynecology, Emeritus Professor, Harvard Medical School, Quebec City, Canada
4. Rebecca Burkhart – University of Pittsburgh; Executive administrator, Division of Nephrology, UPMC Children’s Hospital of Pittsburgh, Pittsburgh, PA
5. Aravind Cherukuri, MBBS, PhD, MRCP – University of Pittsburgh; Assistant Professor of Medicine and Surgery, Department of Medicine, Renal-Electrolyte Division; Pittsburgh, PA
6. Paul Duprex, PhD – University of Pittsburgh; Professor of Microbiology and Molecular Genetics, Director of the Center for Vaccine Research, Pittsburgh PA
7. Michele Elder, RN, BSN – University of Pittsburgh; Operations Manager, Center for Critical Care Nephrology, Department of Critical Care Medicine, Pittsburgh, PA
8. Cassandra Formeck, MD, MS – University of Pittsburgh; Department of Pediatrics, Instructor of Pediatrics, Pittsburgh, PA
9. Dana Fuhrman, DO, MS – University of Pittsburgh; Assistant Professor of Critical Care Medicine and Pediatrics, Department of Critical Care Medicine, Pittsburgh, PA
10. David Huang, MD, MPH – University of Pittsburgh; Professor of Critical Care Medicine and Emergency Medicine, Department of Critical Care Medicine, Pittsburgh PA
11. Sandra Kane-Gill, PharmD, MS – University of Pittsburgh; Professor of Pharmacy and Therapeutics, School of Pharmacy, Pittsburgh, PA
12. Nahmah Kim-Campbell, MD, MS – University of Pittsburgh; Assistant Professor of Critical Care Medicine and Pediatrics, Department of Critical Care Medicine, Pittsburgh, PA

13. Thomas Kleyman, MD – University of Pittsburgh; Chief, Renal-Electrolyte Division, Professor of Cell Biology, Professor of Pharmacology and Chemical Biology, Pittsburgh, PA
14. Fadi Lakkis, MD – University of Pittsburgh; Frank and Athena Sarris Chair in Transplantation Biology, Professor of Surgery, Immunology, and Medicine, Scientific Director, Thomas E. Starzl Transplantation Institute, Pittsburgh, PA
15. Carmela Londino, MBA, MS – University of Pittsburgh; Department of Medicine, Program Administrator, Renal-Electrolyte Division, Pittsburgh, PA
16. Brandon McLaughlin, BA – University of Pittsburgh, Department of Critical Care Medicine, Academic Coordinator, Pittsburgh, PA
17. Raghavan Murugan, MD, MS – University of Pittsburgh; Department of Critical Care Medicine, Center for Critical Care Nephrology, and CRISMA Center, Professor of Critical Care Medicine and Clinical & Translational Science Pittsburgh, PA
18. Karen Nieri, BA – University of Pittsburgh; Department of Critical Care Medicine, Administrative Assistant, Pittsburgh, PA
19. Amy Nye, BS – University of Pittsburgh, Thomas E. Starzl Transplantation Institute, Executive Administrator, Pittsburgh, PA
20. Wendy O'Donnell, MSPR – University of Pittsburgh; Department of Critical Care Medicine, Director of Communications, Pittsburgh, PA
21. Oladipupo Olafiranye, MD, MS – University of Pittsburgh, Assistant Professor of Medicine and Emergency Medicine, Department of Medicine, Division of Cardiology, Pittsburgh, PA
22. Paul Palevsky, MD – University of Pittsburgh; Professor of Medicine, Renal-Electrolyte Division, Chief, Renal Section VA Pittsburgh Healthcare System, Pittsburgh, PA
23. Chethan Puttarajappa, MD, MS – University of Pittsburgh; Assistant Professor of Medicine, Department of Medicine, Renal-Electrolyte Division, Pittsburgh, PA
24. Sunder Sims-Lucas, PhD – University of Pittsburgh; Department of Pediatrics, Assistant Professor of Pediatrics, Pittsburgh, PA
25. Graham Snyder, MD, MS – University of Pittsburgh; Associate Professor of Medicine and Medical Director of Infection Prevention and Hospital Epidemiology, Department of Medicine, Division of Infectious Diseases, Pittsburgh, PA

CME Accreditation and Designation Statement

In support of improving patient care, the University of Pittsburgh is jointly accredited by the Accreditation Council for Continuing Medical Education (ACCME) and the Accreditation Council for Pharmacy Education (ACPE), and the American Nurses Credentialing Center (ANCC), to provide continuing education for the healthcare team.

Physicians

The University of Pittsburgh School of Medicine designates this virtual activity for a maximum of 4.5 *AMA PRA Category 1 Credits*TM. Physicians should only claim credit commensurate with the extent of their participation in the activity.

Other Health Care Professionals

Other health care professionals will receive a certificate of attendance confirming the number of contact hours commensurate with the extent of participation in this activity.



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Disclaimer Statement

The information presented at this CME program represents the views and opinions of the individual presenters, and does not constitute the opinion or endorsement of, or promotion by, the UPMC Center for Continuing Education in the Health Sciences, UPMC/University of Pittsburgh Medical Center or Affiliate and University of Pittsburgh School of Medicine. Reasonable efforts have been taken intending for educational subject matter to be presented in a balanced, unbiased fashion and in compliance with regulatory requirements. However, each program attendee must always use his/her own personal and professional judgement when considering further application of this information, particularly as it may relate to patient diagnostic or treatment decisions including, without limitation, FDA-approved uses and any off-label uses.

Faculty Disclosure

All individuals in a position to control the content of this education activity including members of the planning committee, speakers, presenters, authors, and/or content reviewers have disclosed all relevant financial relationships with any entity producing, marketing, re-selling, or distributing health care goods or services, used on, or consumed by, patients.

The following relevant financial relationships were disclosed:

1. Azra Bihorac – Grant/Research Support: NIH
2. Sylvie Breton – Stockholder/Scientific Founder: Kantum Pharma
3. Sandra Kane-Gill – Grant/Research Support: NIH
4. Raghavan Murugan – Grant/Research Support: NIH, Consultant: Baxter
5. Paul Palevsky – Consultant: Janssen
6. Sunder Sims-Lucas – Grant/Research Support: NIH
7. Graham Snyder – Consultant: infectious diseases connect (UPMC entity)

No other planners, members of the planning committee, speakers, presenters, authors, content reviewers and/or anyone else in a position to control the content of this education activity have relevant financial relationships to disclose.

The University of Pittsburgh is an affirmative action, equal opportunity institution.

We gratefully acknowledge support from Baxter Healthcare Corp, bioMerieux, and Spectral Medical for their educational grants.

The Americans with Disabilities Act information

Participation by all individuals is encouraged. Advance notification of any special needs will help us provide better service. Please notify us of your needs at least two weeks in advance of the program by emailing Wendy O'Donnell at wendyodonnell@pitt.edu.