

Session

Description: The course will cover basic, translational, and clinical science as it relates to pediatric critical care nephrology. The course is designed to deliver an overview of current research advances and clinical practice strategies in pediatric critical care nephrology, including AKI pathophysiology, fluid balance, utilization of biomarkers, and future therapeutic targets. The second half of the course will focus on pediatric continuous renal replacement therapy (CRRT) basics followed by in deep dives into complex case based CRRT management scenarios. The speakers will aim to help foster ideas for future research, quality improvement projects, and improved care.

Cost: \$175 (includes box lunch)

Learning Objectives:

- Upon completion, participants will understand the pathophysiology, risk factors and outcomes associated with pediatric AKI.
- Upon completion, participants will better understand the impact of fluid balance on outcomes, indication for kidney support therapy, and the delivery of kidney support therapy.
- Upon completion, learners will better understand novel biomarkers of AKI, pediatric critical care nephrology (AKI, fluid balance), fundamentals of CRRT, and challenging cases in CRRT.

Presentations:

★ 7:00 AM – 7:25 AM ET

Setting the stage: Epidemiology, risk factors, risk stratification and outcomes associated with AKI in pediatrics

Speaker: Rajit (Raj) Basu, MD MS (he/him/his) – Ann & Robert H. Lurie Children's Hospital of Chicago

★ 7:25 AM – 7:50 AM ET

Understanding the pathophysiology, phases of AKI, and molecular mechanisms surrounding AKI

Speaker: Michelle Starr, MD MPH (she/her/hers) – Indiana University School of Medicine and Riley Hospital for Children

★ 7:50 AM – 8:15 AM ET

From Bench-to-Bedside: AKI as a Multisystem Disease

Speaker: Danielle E. Soranno, MD (she/her/hers) – Indiana University School of Medicine

★ 8:15 AM – 8:40 AM ET

From Serendipity to Utility: The Bench-to-Bedside Journey of AKI Biomarkers

Speaker: Prasad Devarajan, MD FAAP FASN – CCHMC

★ 8:40 AM – 9:05 AM ET

Fluid balance, Fluid Overload, and Outcomes in Critically Ill Children

Speaker: David Selewski, MD, MS – Medical University of South Carolina College of Medicine

★ 9:05 AM – 9:30 AM ET

Bringing it all together: Mobilizing 2 decades of pediatric critical care nephrology to improve outcomes at the bedside

Speaker: Stuart Goldstein, MD (he/him/his) – Cincinnati Children's Hospital Medical Center

★ 9:30 AM – 10:00 AM ET

Break

★ 10:00 AM – 10:45 AM ET

Kidney support therapy Basics: Anticoagulation, Access, dosing, and fluid removal

Speaker: Shina Menon, MD (she/her/hers) – Seattle Children's

★ 10:45 AM – 11:15 AM ET

It's all about that base (and the acid). Complicated cases in citrate anticoagulation

Speaker: Jordan Symons, MD – University of Washington School of Medicine

★ 12:00 PM – 12:30 PM ET

CRRT and Extracorporeal therapy in Acute Liver failure

Speaker: Dana Fuhrman, DO, MS (she/her/hers) – UPMC Childrens Hospital of Pittsburgh

★ 12:30 PM – 1:00 PM ET

Extracorporeal therapies for Intoxication

Speaker: David Askenazi, MD, MSPH – University of Alabama at Birmingham

★ 1:00 PM – 1:30 PM ET

Dysnatremia and Hyperosmolar cases on CRRT

Speaker: Elizabeth Harvey, MD FRCPC (she/her/hers) – University of Toronto Temerty Faculty of Medicine