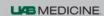


Virtual Training

via



The Neonatologist's Perspective ~ Christine Stoops, DO, MPH



1.5 Day Course

CURRICULUM AGENDA ALL TIMES LISTED ARE CENTRAL DAYLIGHT TIME

| Monday, May 24, 2021 | | 1:30-1:45 | Medications During Kidney Support Therapy ~ Traci Henderson, RPh |
|-------------------------------|--|---|---|
| 7:30-7:45 All participants | Log-In/Zoom Admittance will enter Waiting Room until start of meeting. | 1:45-2:00 | Nutrition During Kidney Support Therapy ~ Katelyn Stinson, RDN, LD |
| 7:45-8:00 8:00-8:15 | Roll Call/Introductions Welcome: | 2:00-2:15 | Access for Kidney Support Therapy in Infants ~ Vince Mortellaro, MD |
| 0.00-0.13 | ~ Suzanne White, RN, BSN, CPN Dialysis Director, Renal Care Center | 2:15-2:30 | Break |
| | Children's of Alabama ~ David Askenazi, MD, MSPH • Pre-Test, Goals & Rules of Course • Housekeeping Items | 2:30-4:15 | Hands-On Nursing Specific Tasks ~ Suzanne Gurosky, BSN, RN ~ Daryl Ingram, BSN, RN, CDN ~ Kara Short, MSN, CRNP ~ Jolyn Morgan, MSN, APRN, CNP, CDN |
| 8:15-8:45 | Acute Kidney Injury and Fluid Overload in Small Children ~ David Askenazi, MD | 4:15-4:25 | Educating Your Team ~ Jolyn Morgan, MSN, APRN, CNP, CDN |
| 8:45-9:15 | End-Stage Kidney Failure in Neonates ~ Tennille Webb, MD | 4:25-4:45 | Caring for Your Program ∼ David Askenazi, MD, MSPH |
| 9:15-10:00 | Principles of Neonatal Kidney Support Therapy, Part 1 | 4:45-5:00 | Concluding Remarks: Bringing It All Together ∼ David Askenazi, MD, MSPH |
| | ~ Michael Zappitelli, MD | 5:00 | Dismissal |
| 10:00-10:15 | Break | | |
| 10:15-11:00 | Principles of Neonatal Kidney Support Therapy, Part 2 ~ Jennifer Jetton, MD | Tuesday, May 25, 2021 | |
| 11:00-11:45 | Principles of Neonatal Kidney Support Therapy, Part 3 | 8:15-12:00 | Morning Groups ~ Simulation Team and NICKS Faculty |
| | ~ Kara Short, MSN, CRNP | 1:15-5:00 | Afternoon Groups |
| 11:45-12:15 | Caring for the Neonate on Kidney Support Therapy: A Parent's Perspective ~ Kara Short, MSN, CRNP, with the Wilson family | ~ Simulation Team and NICKS Faculty Participants will be divided into either morning or afternoon groups. All participants will be actively engaged in four separate simulations. NICKS and Simulation Center faculty will be supervising simulations and readily available to answer questions. All simulations will include a post debriefing. | |
| 12:15-1:00 | Break | | |
| 1:00-1:30 | Caring for the Neonate on Kidney Support Therapy: | | |



OVERALL LEARNING OBJECTIVES

At the end of the course, the learner will:

- Recognize the epidemiology of neonatal acute kidney injury and neonatal end-stage kidney failure.
- 2. Recognize the indications and optimal timing of Kidney Support Therapy in neonates and infants.
- 3. Identify the principles central to the provision of safe and effective treatment using different forms of neonatal kidney support therapy.
- 4. Develop strategies to optimize the kidney support program at each participant's home institution through educational, administrative, personnel and quality improvement initiatives.

SESSION-SPECIFIC LEARNING OBJECTIVES

Acute Kidney Injury and Fluid Overload in Small Children

- Review the epidemiology of neonatal and pediatric acute kidney injury (AKI)
- Review data on fluid overload (FO) in critically ill neonates and children
- Describe the common indications for Kidney Support Therapy (KST) in patients with AKI/FO

End-Stage Kidney Failure in Neonates

- Review the epidemiology of neonatal end-stage kidney failure (ESKF)
- Describe the common indications for KST in neonates and infants with ESKF

Principles of Neonatal Kidney Support Therapy Part 1

- Discuss the goals of KST for neonates and infants with AKI, FO, and ESKF
- Review timing of initiation of KST for neonatal AKI/ESKF
- Describe the terminology of KST
 - * Clearance mode (diffusion vs. hemofiltration vs. ultrafiltration)
 - * Peritoneal vs. veno-venous
 - * Continuous vs. intermittent vs. prolonged intermittent
- Discuss elements of the PD prescription
- Discuss specifics (features, pros and cons) for different KST machines available for small children

Principles of Neonatal Kidney Support Therapy Part 2

- Discuss access for patients who need KST
- Review options for KST on Extracorporeal Membrane Oxygenation (ECMO)
- Review options for priming circuits and the rationale for blood primes
- Acquire strategies for optimizing blood prime procedures
- Compare the options, benefits, risks, set up, complications and monitoring for different anticoagulation options

Principles of Neonatal Kidney Support Therapy Part 3

- Discuss elements of a CVVH/CVVHD prescription (blood flow, dialysis/replacement rates, ultrafiltration rates)
- Discuss Filtration Fraction
- Discuss approaches to ultrafiltration rate prescription
- Troubleshoot potential ultrafiltration issues and discuss plans to address these issues
- Review hematocrit scenarios

Caring for the Neonate on Kidney Support Therapy: A Parent's Perspective

- Discuss a patient on KST and his clinical course from birth to now
- Consider the perspective of the parents and the responsibilities of taking care of one of our KST babies

Caring for the Neonate on Kidney Support Therapy: The Neonatologist's Perspective

- Discuss how our approach to making decision to start KST has changed in our NICU
- Discuss cardio-pulmonary disease care in neonates on KST
- Discuss strategies to have the best collaborative practices for your KST program

Nutrition During Kidney Support Therapy

- Discuss importance of nutritional goals during KST
- Review guidelines for nutrition feeding during KST

Medications During Kidney Support Therapy

- Discuss importance of medication goals during KST
- Review guidelines for medication during KST

Access for Kidney Support Therapy in Infants

- Review intravascular and peritoneal dialysis access options for KST
- Discuss the principles of PD and vascular access placement

Hands-On

- Demonstrate set-up and features of modified CVVH on Aquadex
- Demonstrate set-up and features of CARPEDIEM
- Review blood prime procedures
- Discuss options for circuit-to-circuit change
- Discuss dealing with access alarms
- Review recirculation procedures

Educating Your Team for Kidney Support Therapy

- Discuss frequency, documentation, training, and certification of team members
- Review educational training tools

(continued)



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- 3. Identify the principles central to the provision of safe and effective treatment using different forms of neonatal kidney support therapy.
- 4. Develop strategies to optimize the kidney support program at each participant's home institution through educational, administrative, personnel and quality improvement initiatives.

SESSION-SPECIFIC LEARNING OBJECTIVES continued

Caring for Your Program

- Discuss the advantages and disadvantages of different types of nursing structures
- Review Roles and Responsibilities for all team members for the program — during KST initiation and during KST maintenance
- Discuss the importance of standardizing Policies and Procedures
- Review Elements of Order Sets
- Discuss potential quality improvement initiatives







FACULTY

David Askenazi, MD, MSPH

Professor, Pediatric Nephrology Director, Pediatric and Infant Center for Acute Nephrology (PICAN) University of Alabama at Birmingham Children's of Alabama

Tennille Webb, MD

Professor, Pediatric Nephrology University of Alabama at Birmingham Children's of Alabama

Michael Zappitelli, MD

Assistant Professor, Pediatrics Director, Dialysis and Apheresis Program McGill University/Montreal Children's Hospital Montreal, Quebec

Jennifer Jetton, MD

Clinical Associate Professor, Pediatrics Medical Director, Pediatric Dialysis Unit University of Iowa

Kara Short, MSN, CRNP

Acute Dialysis Nurse Practitioner, Pediatric Nephrology Children's of Alabama

Christine Stoops, DO, MPH

Assistant Professor, Pediatric Neonatology University of Alabama at Birmingham Children's of Alabama

Traci Henderson, RPh

Pediatric Nephrology Pharmacist Children's of Alabama

Katelyn Stinson, RDN, LD

Pediatric Nephrology Dietician, Children's of Alabama

Vince Mortellaro, MD

Assistant Professor, Pediatric Surgery University of Alabama at Birmingham Children's of Alabama

Suzanne Gurosky, BSN, RN

Acute Dialysis Nurse Children's of Alabama

Daryl Ingram, BSN, RN, CDN

Head Acute Dialysis Nurse Children's of Alabama

Jolyn Morgan, MSN, APRN, CNP, CDN

Clinical Manager, Pediatric Nephrology Cincinnati Children's Hospital Medical Center

Nancy Tofil, MD, MEd

Professor and Director, UAB Pediatric Critical Care Medical Director, Pediatric Simulation Center at Children's of Alabama

Chrystal Rutledge, MD

Assistant Professor, UAB Pediatric Critical Care Co-Director, Pediatric Simulation Center at Children's of Alabama

Registration Information

Register here

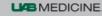
(payment by credit card only)

Physicians: \$325 Nurses/NPs: \$275

Fellows: \$200







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