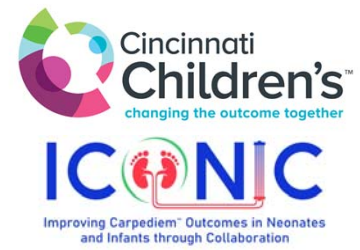


ICONIC- Improving Carpediem™ Outcomes in Neonates and Infants through Collaboration



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on behalf of the *ICONIC Collaborative*

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INTRODUCTION

- Infants receiving Continuous Kidney Replacement Therapy (CKRT) experience worse outcomes compared to children and adults
- Technical challenges, lack of dedicated devices for children <10 kg, and infrequent occurrence have led to limited knowledge on best practices
- The CARDio-Renal PEdiatric DLysis Emergency Machine (Carpediem™) is the first dedicated platform in the United States to provide CKRT to neonates and young infants
- Single site use is expected to be infrequent making best practice strategies difficult to interpret individually

OBJECTIVES

A multicenter quality improvement and research registry dedicated to identifying best practices and treatment strategies to improve outcomes in this population

Specific Aims:

- Develop a multi-center quality improvement collaborative network (ICONIC) to discuss program development, share best practices, treatment hurdles, and quality metrics in infant CKRT with the Carpediem™ device in the United States.
- Establish a Registry and Repository for Research
 1. Understand practice pattern variation across the US related to indications for treatment and general use
 2. Evaluate predictors of Carpediem™ filter life within patient and prescription level data
 3. Describe patient survival, renal recovery and long-term outcomes of patients that are treated with Carpediem™.
 4. Create a longitudinal database to compare how education and quality improvement metrics change outcomes
 5. Establish a biorepository for future research studies

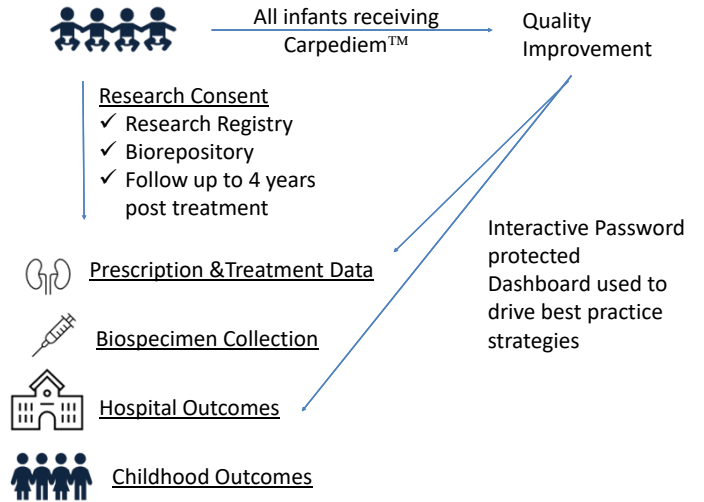
STRUCTURE

- 7 Core centers (first sites to start using Carpediem™) serve as the steering committee. This committee facilitates and oversees research and quality improvement related activities.
- Collaborative sites may elect to participate in Quality Improvement, research, or both. Collaborative sites can submit requests for research proposals
- Membership is multidisciplinary and includes physicians, advanced practice providers, nursing, pharmacy and dieticians
- Bimonthly meetings to facilitate discussion related to understanding best practices and streamlining care and efficiency through "Clinical Practice Excellence" presentations and discussion

DATA

Site Specific Data: Care delivery models & Educational practices

Patient Specific Data:



CONCLUSIONS

The development of ICONIC is critical in understanding best practices related to infant CKRT and improving outcomes in this population.

SITES

Core Sites

Mayo Clinic; Rochester, MN
Texas Children's; Houston, TX
Cincinnati Children's; Cincinnati, OH
Seattle Children's Seattle, WA
C.S. Mott Children's; Ann Arbor, MI
University of Iowa, Iowa City, IA
Golisano Children's; Rochester, NY

Collaborative Sites

Cohen Children's; New York, NY
OHSU; Portland, OR
University of New Mexico; Albuquerque, NM
Children's Hospital of Colorado; Denver, CO
UAMS; Little Rock, AR
CHOA; Atlanta, GA
Children's Hospital and Medical Care, Omaha, NE
UCLA; Los Angeles, CA
Lucile Packard Children's, San Francisco, CA

