PICU Faculty Research Involvement

Jeremy Affolter
1. Pediatric Acute Respiratory Distress Syndrome Incidence and Epidemiology (PARDIE)

Andrew Ausmus
1. A Needs Assessment of Brain Death Education in Pediatric Critical Care Medicine Fellowships

Geoffrey Allen
1. The SAFE Extrapolation to Paediatric Intensive Care (SAFE-EPIC) Study
2. Sedation Management in Pediatric Patients with Acute Respiratory Failure
3. Genomic Analysis of the Pediatric Systemic Inflammatory Response Syndrome

Paul Bauer
1. The Relative Impact of High-Risk Unscheduled Transfers to the Pediatric Intensive Care Unit and Subsequent Mortality

Jennifer Flint
1. A Feeding Protocol for Infants with Single Ventricle Anatomy May Decrease Morbidity and Mortality Associated with Feeding Complications (Including Necrotizing Enterocolitis)
2. Laparoscopic Gastrostomy Tube Placement in Patients with Complex Congenital Heart Disease
3. Pilot Randomized Control Trial of Necrotizing Enterocolitis Screening using Abdominal Radiograph versus Bowel Ultrasound plus Abdominal Radiograph in Congenital Heart Disease Patients
4. Multicenter, Open-Label, Dose Escalation Study to Evaluate Safety, Tolerability, and Pharmacokinetics of RLX030 in Addition to Standard of Care in Pediatric Patients from Birth to <18 years of Age, Hospitalized with Acute Heart Failure
5. A Phase 3b, Multicenter, Open-label, Randomized Withdrawal Trial of Effects of Titrated oral SAMSCA (tolvaptan) on Serum Sodium, Pharmacokinetics, and Safety in Children and Adolescent Subjects Hospitalized with Euvolemic or Hypervolemic Hyponatremia
6. Developing Pediatric Residents’ Knowledge and Skills in cardiopulmonary resuscitation through A Guided Mentoring Model
7. Analysis of a clinical protocol for the care of critically ill children with burns and/or inhalation injury.
9. Characterizing acute and chronic ischemic and hemorrhagic stroke in patients with congenital heart disease
**Yong (Kato) Han**

1. Comparison of PEWS to other Scoring Systems in their Ability to Triage Hospital Admission Placement during Interfacility Transport
2. The Relative Impact of High-Risk Unscheduled Transfers to the Pediatric Intensive Care Unit and Subsequent Mortality
3. Feasibility of Utilizing Near Infrared Spectroscopy (NIRS) and Comparison with Capillary Refill Time as Noninvasive Surrogate Endpoints for Goal-Directed Shock Resuscitation in Children

**Jenna Miller**

1. Implementing Just In Time Clinical Resuscitation Training in the Intensive Care Unit
2. Developing Pediatric Residents’ Knowledge and Skills in Cardiopulmonary Resuscitation through a Guided Mentoring Model
3. PIQIC National Collaborative for Pediatric Burn Resuscitation Protocol Development
4. Severe Illness in Children Exposed to Trimethoprim-Sulfamethoxazole (TMP-SMX)

**Laura Miller-Smith**

1. Outcomes and Complication of Pediatric Patients following Tracheotomy
2. A Feeding Protocol for Infants with Single Ventricle Anatomy May Decrease Morbidity and Mortality Associated with Feeding Complications
3. Implementing Just In Time Clinical Resuscitation Training in the Intensive Care Unit
5. Attitudes of Emergency Medical Service (EMS) Providers Toward Pediatric Death and Outside-of-Hospital Do Not Resuscitate (DNR) Orders

**Erica Molitor-Kirsch**

1. EEG Monitoring s/p Cardiac Bypass
2. Cardiac Arrest Prevention in the CICU

**Jay Rilinger**

1. CHA Sepsis Collaborative

**Paul Sheeran**

1. Midazolam versus Dexmedetomidine Premedication in Children with Obstructive Sleep Apnea Undergoing Tonsillectomy and Adenoidectomy

**John Sommerauer**

1. Pediatric Acute Respiratory Distress Syndrome Incidence and Epidemiology (PARDI)
Kelly Tieves
1. Assessing the Association between EPAS, Competencies and Milestones in the Pediatric Subspecialties
2. Implementation Trial of a Validated Clinical Decision Rule for Pediatric Abusive Head Trauma. CDR Implementation Trial.

Marita Thompson
1. Neurosedative Requirements Pre and Post Exubation for ARDS Patients on ECMO
2. Use of Delirium Score in Pediatric Critical Care
3. Development of a bronchoscopy score for ARDS patients on ECMO
4. CHA Sepsis Collaborative

Asdis Wagner
1. Parental Perspectives in the PICU Regarding Limitations of Life-Sustaining Therapy, End-of-Life Care, and Do-Not-Resuscitate Orders

Jessica Wallisch
1. Development of a bedside guide engine in severe pediatric traumatic brain injury
2. Pediatric Neurocritical Care Research Group, research network group member