Faculty Research Involvement

Jeremy Affolter
1. Pediatric Cardiac Critical Care Consortium (PC4)
2. National Pediatric Cardiology Quality Improvement Collaborative (NPC-QIC)
3. 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. Genomic Analysis of the Pediatric Systemic Inflammatory Response Syndrome
2. The SAFE Extrapolation to Paediatric Intensive Care (SAFE-EPIC) Study
3. Sedation Management in Pediatric Patients with Acute Respiratory Failure

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. Pediatric Stroke: Do patient demographics and presenting symptoms help predict the diagnosis of stroke in pediatric patients who present with acute neurological
3. Laparoscopic Gastrostomy Tube Placement in Patients with Complex Congenital Heart Disease
4. Pilot Randomized Control Trial of Necrotizing Enterocolitis Screening using Abdominal Radiograph versus Bowel Ultrasound plus Abdominal Radiograph in Congenital Heart Disease Patients
5. 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
6. 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
7. Developing Pediatric Residents' Knowledge and Skills in cardiopulmonary resuscitation through A Guided Mentoring Model
8. PIQIC National Collaborative for Pediatric Burn Resuscitation Protocol Development

Yong (Kato) Han
1. Randomized, Double-blind, Placebo-Controlled Study to Evaluate the Efficacy and Safety of SAGE-547 Injection in the Treatment of Subjects with Super-Refractory Status Epilepticus
2. Ventilator-Associated Infections Point Prevalence Study (VAIN)
3. The Relative Impact of High-Risk Unscheduled Transfers to the Pediatric Intensive Care Unit and Subsequent Mortality
4. Feasibility of Utilizing Near Infrared Spectroscopy (NIRS) and Comparison with Capillary Refill Time as Noninvasive Surrogate Endpoints for Goal-Directed Shock Resuscitation in Children
5. Pediatric Acute Respiratory Distress Syndrome Incidence and Epidemiology (PARDI)
6. Comparison of PEWS to other Scoring Systems in their Ability to Triage Hospital Admission Placement during Interfacility Transport

**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

**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. Pilot Randomized Control Trial of Necrotizing Enterocolitis Screening using Abdominal Radiograph versus Bowel Ultrasound plus Abdominal Radiograph in Congenital Heart Disease Patients
4. Parental Perspectives in the Pediatric Intensive Care Unit Regarding Limitations of Life-Sustaining Therapy, End-Of-Life Care, and Do-Not-Resuscitate Orders
5. The Impact of the Diagnosis of Non-Accidental Trauma on Family Consent for Organ Donation
6. Implementing Just In Time Clinical Resuscitation Training in the Intensive Care Unit

**Erica Molitor-Kirsch**
1. Cardiac arrest prevention in the CICU
2. Continuous EGG s/p congenital heart surgery

**Jay Rilinger**
1. Trans-Cranial Doppler Use in Identification of Neurologic Injury in Pediatric Extra-Corporeal Membrane Oxygenation Therapy
2. Implementing Just In Time Clinical Resuscitation Training in the Intensive Care Unit
3. 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. Pediatric Acute Respiratory Distress Syndrome Incidence and Epidemiology (PARDIE)
3. Implementation Trial of a Validated Clinical Decision Rule for Pediatric Abusive Head Trauma. CDR Implementation Trial.

**Marita Thompson**

1. Neurosedative Requirements Pre and Post Extubation 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. Cerebral edema following severe traumatic brain injury and asphyxial cardiac arrest
2. Inhibition of aquaporin-4 mediated cerebral edema
3. Inflammasomes and inflammation-mediated secondary injury following traumatic brain injury
4. Interdisciplinary end-of-life and palliative care education