**Division Introduction**

As the major program in North Texas caring for children with gastrointestinal (GI) and liver disorders, the Division of Pediatric Gastroenterology at UT Southwestern Medical Center, in partnership with the Children's Health System, provides patient-centered care to an ever expanding population. The Division's mission is to improve the lives of children with gastrointestinal and liver diseases through quality care, innovative clinical programs, education and training of healthcare providers, and state-of-the-art techniques in basic, translational and clinical research.

Under the direction of Drew Feranchak, M.D., Pediatric Gastroenterology’s Division Chief, this nationally recognized division includes distinguished faculty focusing on diverse areas of gastroenterology, including molecular biology of cholestatic liver disease, chronic viral hepatitis, neurogastroenterology, inflammatory bowel disease, therapeutic endoscopy, intestinal rehabilitation and liver transplantation. Currently the Division is comprised of 20 faculty members (19 physicians and one PhD scientist) who provide outstanding care to patients with gastrointestinal and liver disorders, including inpatient, outpatient and procedural services. In addition, the Division’s physicians provide supervision to 15 Advance Practice Providers (Physician Assistants or Nurse Practitioners).

The Division, ranked 7th in the nation by U.S. News and World Reports in 2016, provides clinical services and medical leadership at three practice sites:

- Children’s Medical Center Dallas
- Children’s Health™ Specialty Center Plano
- Texas Health Presbyterian Hospital

The clinical activity of the Division is centered on a high quality and volume service, with more than 20,000 outpatient visits, 2,000 inpatient admissions and 3,000 procedures per year.

All these functions are organized in a programmatic fashion into 15 distinct clinical programs:

- Aerodigestive Program
- Celiac Disease
- Childhood Obesity
- Chronic Abdominal Pain
- Cystic Fibrosis Center
- Eosinophilic/Allergic disorders
- Feeding Disorders
- General Gastroenterology
- Hepatology/Liver Transplant
- Inflammatory Bowel Disease
- Intestinal Immunology
- Intestinal Rehabilitation and Short Bowel Disease
- Neuro-Gastroenterology
- Pancreatic Disorders
- Therapeutic Endoscopy/Gastroenterology Laboratory
Faculty

One new faculty member joined the Division in 2016, Dr. Sarah Barlow, bringing the total to 20 full-time pediatric gastroenterology faculty members.

Sarah Barlow, M.D., M.P.H.

Professor

B.A.
Yale College, New Haven, CT, 1981

M.D.
UT Southwestern Medical Center, Dallas, TX, 1989

M.P.H.
Harvard University, Boston, MA, 1996

Postdoctoral Training
Residency, Pediatrics
Brown University School of Medicine, Providence, RI, 1990-1992
Fellowship, Pediatric Gastroenterology
Tufts University School of Medicine, Boston, MA, 1993-1997

Interests
Management of obesity and NAFLD in children and adolescents, population health approaches to child and adolescent obesity

Honors / Awards

Best Pediatric Specialists in Dallas, *D Magazine*  
- John Andersen  
- Brad Barth  
- Ashish Patel  
- Norberto Rodriguez-Baez  
- Meghana Sathe

Texas Super Doctor, *Texas Monthly Magazine*  
- John Andersen

Texas Rising Stars, *Texas Monthly Magazine*  
- Michele Alkalay  
- Meghana Sathe

John Andersen
- Best of the Best, America’s Most Honored, *American Registry*  
- Provider of the Month, Children’s Health, Gastroenterology Clinic

Rinarani Sanghavi
- Mom Approved Doctors, *DFW/North Texas Child Magazine*

Meghana Sathe
- Promotion to Associate Professor

David Troendle
- NASPHGAN Endoscopy Prize, Best endoscopy related abstract
Invited Lectures

Ashish Patel

  - Chairperson: Symposium – 7 GERD
  - “Novel Therapeutics in IBD”

Norberto Rodriguez-Baez

- NASPGHAN/Nestlé First Year Fellows Conference, Fort Lauderdale, FL, January 2016
  - “Make Friends No Enemas – GI Quiz Show”
  - “Clinical Research Exercise”
  - “Work-Life Balance”

- Pediatric Gastroenterology Fellowship Noon Conference – Rainbow Babies & Children’s Hospital, Case Western Reserve University, Cleveland, OH, April 2016
  - “GI Jeopardy”

- Pediatric Gastroenterology Fellowship Noon Conference – Nationwide Children’s Hospital, The Ohio State University College of Medicine, Columbus, OH, August 2016
  - “Are You Smarter Than a 5th Grader?”

Rina Sanghavi

- 12th Annual Texas Association of Neonatal Nurse Practitioners (TXANNP) conference, Houston, TX, January 2016
  - “GI Issues in the Premature Baby”

Meghana Sathe

- NASPGHAN/Nestlé First Year Fellows Conference, Fort Lauderdale, FL, January 2016
  - “Top 10 Ways to Achieve Work-Life Balance”

- Alagille’s Alliance Education Day, San Diego, CA, June 2016
  - Nutrition Panel

David Troendle

- World Congress of Pediatric Gastroenterology, Hepatology and Nutrition 2016, Montreal, Canada, October 2016
  - “Specialized Imaging and Procedures in Pancreatitis”

Conference Presentations


Oral Presentation, American Gastroenterological Association Meeting – Digestive Disease Week, San Diego, CA, May 2016
“Ruxolitinib, A Selective Jak1/2 inhibitor, blocks IL-13/STAT6 Signaling and Eotaxin-3 Expression in Esophageal Epithelial Cells and Fibroblasts: A Potential Agent to Treat Inflammation and Fibrosis in EoE.”

Wang J, Park JY, Souza RF, Spechler SJ, Cheng E.

Poster, American Gastroenterological Association Meeting – Digestive Disease Week, San Diego, CA, May 2016
“In Children with Esophageal Eosinophilia, Most Esophageal Biopsies Contain Insufficient Lamina Propria to Evaluate for Fibrosis, and Fibrosis Often is Present When Endoscopy Shows Only an Inflammatory Phenotype”
Cheng E, Park JY, Albert DM, Wang J, Dunbar KB, Souza RF, Spechler SJ, Moawad FJ.
Poster, American Gastroenterological Association Meeting – Digestive Disease Week, San Diego, CA, May 2016
“Eotaxin-3 Expression by Esophageal Epithelial Cells Correlates Inversely with Acid Reflux in Patients with Symptomatic Esophageal Eosinophilia”

Nichols-Vinueza D, Luu H, Rodriguez-Baez N, Rivera-Sanchez Y, Chen K, Yan M, Yu H, Wong L, De la Morena M.
Poster, American Gastroenterological Association Meeting – Digestive Disease Week, San Diego, CA, May 2016
“Eotaxin-3 Expression by Esophageal Epithelial Cells Correlates Inversely with Acid Reflux in Patients with Symptomatic Esophageal Eosinophilia”

Poster, American Academy of Allergy, Asthma and Immunology Annual Meeting, Los Angeles, CA, March 2016
“Use of Rituximab in Late Onset Leaky Severe-Combined-Immunodeficiency”

Poster, American Academy of Allergy, Asthma and Immunology Annual Meeting, Los Angeles, CA, March 2016
“Use of Rituximab in Late Onset Leaky Severe-Combined-Immunodeficiency”

Oral Presentation, NICHD’s Child Health Research Centers (CHRC) Annual Retreat, Bethesda, MD, September 2016
“Role of Enteroendocrine Cells in Inflammatory Bowel Disease Pathogenesis”

Education and Training

The Division continues to provide new and innovative training strategies for students, residents, fellows and junior faculty, as well as educational programs to the local community and nationally.

The three-year, ACGME-accredited fellowship program, directed by Drs. Norberto Rodriguez and Meghana Sathe, provides comprehensive training for nine gastroenterology fellows (three annually). The training program is dynamic and innovative, offering individualized training tracks in quality improvement, therapeutic endoscopy, motility and clinical and basic research. First year fellows’ emphasis are on acquiring knowledge and clinical skills in gastroenterology, hepatology and nutrition. Second and third year fellows will focus on a basic science or clinical project that meets the ACGME requirements for scholarly activity. Both areas emphasize acquiring skills in scientific presentation, writing abstracts and manuscripts, and grant development. The first-time passing rate for the ABP-certified Pediatric Gastroenterology board exam for graduating fellows is 100%, and the majority of graduates go on to hold faculty appointments.

Focused areas of research by the Division’s current fellows include:
- Hepatobiliary Transport Physiology
- Pathogenesis of Eosinophilic Esophagitis
- Mechanisms of Pruritus Associated with Chronic Liver Disease
- Metabolic Liver Disease
- Immunobiology, Genetics and Epidemiology of Pediatric IBD
Research Activities

Funded research spans a wide range of important areas in both basic science and clinical investigation. The Division has many active ongoing research studies including several National Institutes of Health (NIH)-sponsored studies to understand the origins of childhood liver, esophageal and intestinal diseases. The Division is participating in more than 40 ongoing IRB-approved clinical trials, including several national, multicenter studies evaluating treatments for pancreatic disease, Cystic Fibrosis, inflammatory bowel disease, hepatitis and liver failure.

Liver Research

The Liver Research Laboratory, headed by Dr. Drew Feranchak, is investigating basic mechanism of bile formation and hepatobiliary transport, the regulatory role of purinergic signaling in biliary secretion and mechanisms of fatty liver disease. Dr. Feranchak, a NIH-funded investigator, is recognized internationally for his innovative approaches to elucidating the basic mechanisms regulating bile formation and signaling within the liver. Dr. Feranchak’s research is pivotal, since it is very likely that therapeutic interventions for cholestatic liver disease will emerge by targeting these signaling pathways.

The Liver Research Laboratory also includes Drs. Qin Li and Amal Dutta who are investigating novel targets for the treatment of cholestatic liver diseases such as those associated with Cystic Fibrosis. The lab is supported by Charles Kresge, Lab Manager, and provides training opportunities for post-doctoral fellows, residents and students.

- Dr. Norberto Rodriguez-Baez is the principle site investigator for a national, multicenter, NIH-supported study examining the causes for fulminant hepatic failure in children, as well as studies evaluating the best treatment strategies for children with hepatitis B and C.

- Dr. Charina Ramirez’s research focuses on metabolic liver disease including Niemann-Pick type C and non-alcoholic fatty liver disease (NAFLD). She is conducting a novel trial evaluating the effects of specialized diets in the treatment of childhood fatty liver disease.

Gastroenterology Research

The second general area of active research involves inflammation in the GI tract including, studies to understand the pathogenesis of eosinophilic esophagitis and inflammatory bowel disease (IBD).

- Dr. Edaire Cheng is a NIH-funded investigator unraveling the basic causes of eosinophilic esophagitis. She has developed novel cell and mouse models which are providing new insights into this disease, as well as uncovered the mechanisms of eosinophilic infiltration and tissue remodeling in the esophagus.

- Dr. Luis Sifuentes is studying basic mechanisms of inflammatory bowel disease. He is supported by a departmental, NIH-sponsored, Child Health Research Career Development Award and is working closely with Dr. Ezra Burnstein in the Department of Internal Medicine’s Division of Gastroenterology at UT Southwestern to understand the molecular basis of early-onset IBD. Using cutting edge genomic and proteomic approaches, together they have identified novel genes that play a role in early-onset IBD.

- Dr. Ashish Patel is the site leader for the multicenter collaborative known as Improve Care Now. He has been instrumental in the development of a nutritional management algorithm and is leading treatment trials in patients with IBD. Dr. Patel is also the primary investigator on multiple grants, including funding from the NIH, CCFA and Broad Foundation. He also leads several industry supported trials evaluating novel therapies for pediatric IBD.
• Dr. Rina Sanghavi, an expert in neurogastroenterology, is exploring new therapies for constipation, motility disorders, and aerodigestive disorders in children. Studies are underway exploring the contribution of the intestinal microbiome to GI motility.

• Dr. Brad Barth, Director of Therapeutic Endoscopy at Children’s, is studying therapeutic interventions for complex childhood hepatobiliary and pancreatic disorders. His clinical and research interests include therapeutic endoscopy, ERCP, endoscopic treatment of gastrointestinal bleeding, and complex esophageal strictures.

• Dr. David Troendle’s research focuses on advanced endoscopic training and interventional endoscopic approaches for the treatment of pancreatic disease. He is also evaluating educational and training approaches in advanced therapeutic endoscopy for pediatric practitioners.

• Dr. Sarah Barlow’s research interests are in childhood obesity and nonalcoholic fatty liver disease.

Clinical Activities
The nationally recognized clinical programs of the Division of Gastroenterology are housed at Children’s Medical Center Dallas with satellite activity at Children’s at Legacy, Southlake, and THR. In the patient-centered environment, physicians are joined by nurse practitioners, physician assistants, child psychologists, dieticians, speech therapists, child life specialists, a social worker, an enterostomal therapist/educator, and a care coordinator to provide multidisciplinary, comprehensive state-of-the-art care for children with virtually any gastrointestinal or liver problem.

Gastroenterology Clinical Laboratory
The gastroenterology laboratory staff of six nurses and two endoscopy technicians supports not only routine endoscopic procedures, but also advanced and therapeutic endoscopy, including ERCP, EUS, balloon enteroscopy and capsule endoscopy and a full range of motility procedures, including anorectal, esophageal, antroduodenal, small bowel and colonic.

Specialized Programs
The Division also provides several specialized clinical programs. Referrals are accepted for all of the following programs and a Gastroenterology physician is on call daily to take calls from physicians.

Neurogastroenterology Program

Under the direction of Dr. Rina Sanghavi, this program provides comprehensive care for children with complex motility dysfunctions, including intestinal pseudo-obstruction, dysmotility following infection of surgery and neuromyopathies. It is home to one of the few ANMS-certified pediatric motility labs in the country performing esophageal, antroduodenal, colonic motility, and impedance studies. It is the only bowel management program in North Texas for children with simple and complex anorectal malformations, the only multidisciplinary abdominal pain program and the only aerodigestive disorders management program in the area.

Aerodigestive Program

Directed by Dr. Rinarani Sanghavi and Dr. Romaine Johnson (ENT), the multidisciplinary aerodigestive program combines the services of gastroenterology, pulmonology, and ear, nose and throat (ENT) specialists. Pediatric patients are referred nationwide for comprehensive evaluation of swallowing, breathing, and feeding disorders.
This specialized program includes procedural services such as esophageal impedance, endoscopy bronchoscopy and laryngoscopy.

**Chronic Abdominal Pain Program**

Directed by Dr. Rinarani Sanghavi and Dr. Thomas Spain (Pain Specialist), the chronic abdominal pain program (CAPP) provides a comprehensive evaluation and treatment of children with chronic abdominal pain. This multidisciplinary program includes a skilled team consisting of gastroenterologists, pain management specialists, psychologists, and skilled nurses. It is the only comprehensive pain management program in North Texas for children with abdominal pain.

**Hepatology & Liver Transplantation Program**

Producing internationally recognized research and clinical studies in acute liver failure, viral hepatitis and chronic liver diseases, this is an internationally recognized active Pediatric Liver Transplantation program. The transplant program performs whole and split liver transplants using deceased or living donor livers to treat a range of liver diseases with outcomes that are above national averages.

**Intestinal rehabilitation Program**

Under the direction of Dr. Nandini Channabasappa, this is the only program of this type in the Southwest and is one of the largest in the country. The program provides a comprehensive and integrated approach to nutritional support, including parenteral and enteral feeding programs, for children with short bowel syndrome, pseudo-obstruction and other disorders resulting in intestinal failure, as well as for those who have had intestinal transplantation.

**Pediatric Inflammatory Bowel Disease (IBD) Program**

Directed by Dr. Ashish Patel, this program provides specialized care for children with inflammatory bowel disease, conducts research into new treatments, genetics and epidemiology, and is a founding member of the now 80+ center international collaboration, the Improve Care Now network, establishing quality improvement indicators and benchmarks in order to rapidly advance patient care and optimize outcomes. The Center is one of the largest IBD centers in the nation caring for more than 400 children with Crohn’s disease or ulcerative colitis and providing consultations to patients from throughout the U.S. and internationally.

**Pediatric Intestinal Immunology Clinic (PIIC)**

Directed by Dr. Bhaskar Gurram, the Pediatric Intestinal Immunology Clinic provides comprehensive evaluation and care to children with immunodeficiency and/or immune dysregulation with corresponding intestinal inflammation. It combines the skilled gastroenterologists, immunologists, geneticists and pathologists, and it is the only one of its kind in Texas.

**Childhood Obesity Program**

Directed by Dr. Sarah Barlow, the Childhood Obesity program is cross-disciplinary, cross-site approach to obesity care. The program provides resources for primary care providers, including electronic health record clinical decision support, connections to community-based weight management programs, and nutritional education.
Therapeutic Endoscopy Program

Directed by Dr. Brad Barth, the Therapeutic Endoscopy Program is one of the few programs in the United States performing specialized, cutting-edge endoscopic procedures, including endoscopic retrograde cholangiopancreatography (ERCP) in children of all ages and leads the nation in endoscopic innovation, research, and training. More than 3,000 endoscopic procedures performed per year, including specialized procedures such as ERCP and endoscopic ultrasound. The program, which houses a state-of-the-art training program with a simulation lab, has won the North American Society of Pediatric GI endoscopy prize three times.

Cystic Fibrosis Program

The childhood Cystic Fibrosis program is co-directed by Drs. Meg Sathe from Pediatric Gastroenterology and Preeti Sharma from Pediatric Respiratory Medicine, and provides a comprehensive team approach to this complex and chronic disease. It is actively involved in many national multicenter trials, including clinical trials of new and innovative treatments.

Eosinophilic Esophagitis and Esophageal Disorders Program

Co-directed by Drs. Edaire Cheng and Aakash Goyal, this program treats children with eosinophilic esophagitis in a multidisciplinary approach. It supports ongoing basic research into the basic mechanisms underlying disease pathogenesis.

Celiac Disease Program

Directed by Dr. Michele Alkalay and located at the Legacy campus in Plano, this is a multidisciplinary program involving intense nutritional and family support for children with celiac disease and gluten sensitivity.

Pancreatic Disorders Program

Co-directed by Drs. Brad Barth and David Troendle, this is a comprehensive program that brings the latest in minimally invasive surgical techniques to the treatment of children with disorders of the pancreas. Utilizing advanced therapeutic techniques improves recovery time and results in a smaller incision and less pain.

Feeding Disorders Program

Directed by Dr. Gaith Semrin, the Feeding Disorders program at Children’s Health consists of a multidisciplinary team dedicated to the care of patients with disorders of oral feeding. The mission of the program is to formulate individual therapy, foster feeding independence, and improve the quality of life for patients with feeding problems.

2016 Patient Statistics

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**Current Grant Support**

**Bradley Barth**

**Grantor:** University of Iowa  
**Title of Project:** INSPPIRE to Study Pediatric Chronic Pancreatitis  
**Role:** Principle Investigator  
**Dates:** 2015 - 2016

**Edaire Cheng**

**Grantor:** National Institutes of Diabetes and Digestive and Kidney Diseases (K08)  
**Title of Project:** The Role of Periostin and Th2 Cytokines in Eosinophilic Esophagitis Fibrogenesis  
**Role:** Principal Investigator  
**Dates:** 2013 – 2017

**Grantor:** American Gastroenterological Association (Research Scholar Award)  
**Title of Project:** Eosinophilic Esophagitis Fibrogenesis  
**Role:** Principal Investigator  
**Dates:** 2013 – 2017

**Andrew Feranchak**

**Grantor:** NIH NIDDK 5 R01 DK078587-07  
**Title of Project:** Mechanosensitive Signaling in Cholangiocyte Secretion  
**Role:** Principal Investigator  
**Dates:** 2016 – 2020

**Grantor:** Children’s Medical Center Research Foundation  
**Title of Project:** Cholangiocyte Secretion and Bile Formation  
**Role:** Principal Investigator  
**Dates:** 2014 – 2016

**Grantor:** Cystic Fibrosis Foundation Pilot and Feasibility Award  
**Title of Project:** Development and Characterization of a Polarized Cystic Fibrosis Bile Duct Epithelial Model  
**Role:** Principal Investigator  
**Dates:** 2016 – 2018

**Grantor:** NIH - K12 Child Health Research Career Development Award (CHRCDA)  
**Title:** Antecedents and Sequela of Childhood Onset Diseases  
**Role:** Mentor (PI: Perez-Fontan, J)  
**Dates:** 2011 – 2020

**Ashish Patel**

**Grantor:** NIH 1U01DK095745-01  
**Title:** PROTECT – Predicting Response to Standardized Pediatric Colitis Therapy  
**Role:** Site Principal Investigator  
**Dates:** 2012 – 2017

**Grantor:** CCFA  
**Title:** Risk Stratification and Identification of Immunogenetic and Microbial Markers of Rapid Disease Progression in Children with Crohn’s Disease  
**Role:** Site Principal Investigator  
**Dates:** 2013 – 2016
Grantor: NIH R01-DK087694-01A1
Title: Gene Discoveries in Subjects with Crohn’s Disease of African Descent
Role: Site Principal Investigator

Norberto Rodriguez-Baez

Grantor: NIH / University of Pittsburgh (Grant No. U01-DK072146)
Title: Pediatric Acute Liver Failure Study Group Registry and Biological Samples
Role: Co-Investigator

Grantor: NIH / Johns Hopkins University (Grant No. U01-DK082872002)
Title: Hepatitis B Research Network – Effect of HBV DNA Methylation and the Mutant 1762T/1764A on Viral Load and HCC
Role: Co-Investigator
Dates: 2008 – 2020

Grantor: Gilead Sciences
Title: A Phase 2, Open-Label, Multicenter, Multi-cohort, Single-Arm Study to Investigate the Safety and Efficacy of Sofosbuvir + Ribavirin in Adolescents and Children with Genotype 2 or 3 Chronic HCV Infection
Role: Co-Investigator
Dates: 2014 - 2016

Grantor: Gilead Sciences
Title: A Phase 2, Open-Label, Multicenter, Multi-cohort Study to Investigate the Safety and Efficacy of Ledipasvir/Sofosbuvir Fixed Dose Combination in Adolescents and Children with Chronic HCV Infection
Role: Co-Investigator
Dates: 2014 - 2016

Charina Ramirez

Grantor: Children’s Medical Center Research Foundation (CCRAC)
Title: Low Carbohydrate in Obese Children with Non-Alcoholic Fatty Liver Disease
Role: Principle Investigator

Meghana Sathe

Grantor: Cystic Fibrosis Foundation
Title: SATHE14GE0 Developing Innovative Gastroenterology Specialty Training Program (DIGEST)
Role: Principle Investigator
Dates: 2014 – 2017

Grantor: Cystic Fibrosis Foundation
Title: SATHE14YO Therapeutic Drug Center
Role: Co-Principle Investigator

Grantor: Cystic Fibrosis Foundation
Title: CC034-34 TX-34/34 Children’s Medical
Role: Co-Principle Investigator
Grantor: Cystic Fibrosis Foundation  
Title: CC034-34 TX-34/34 Children’s Medical  
Role: Co-Principal Investigator  

Grantor: Cystic Fibrosis Foundation  
Title: SATHE14QI0 One CF Center: Learning and Leadership Collaborative  
Role: Principal Investigator  

Grantor: Abbott Laboratories and Janssen Research and Development LLC  
Title: CFFC A Long-Term Prospective Observational Safety Study of the Incidence of and Risk Factors for Fibrosing Colonopathy in US Patients with Cystic Fibrosis Treated with Pancreatic Enzyme Replacement Therapy: A Harmonized Protocol across Sponsors  
Role: Principle Investigator  
Dates: 2012 – 2022

Grantor: Cystic Fibrosis Therapeutics Development Network and Scott Sagel, MD  
Title: AQUADEKs2-IP-12 A Multi-Center, Randomized, Controlled, Double-Blind Study of the Effects of an Antioxidant-Enriched Multivitamin Supplement on Inflammation and Oxidative Stress in Cystic Fibrosis Patients  
Role: Sub-Investigator  

Grantor: Vertex Pharmaceuticals Incorporated  
Title: VX661-108 A Phase 3, Randomized, Double-Blind, Placebo-Controlled, Crossover Study to Evaluate the Efficacy and Safety of Ivacaftor and VX-661 in Combination with Ivacaftor in Subjects Aged 12 Years and Older With Cystic Fibrosis, Heterozygous for the F508del-CFTR Mutation, and a Second Allele with a CFTR Mutation Predicted to Have Residual Function  
Role: Sub-Investigator  
Dates: 2015 – 2017

Grantor: Parion Sciences  
Title: A Randomized, Double-Blind, Placebo-Controlled, Parallel-Group Study to Evaluate the Safety and Efficacy of P-1037 Solution for Inhalation in Patients with Cystic Fibrosis  
Role: Sub-Investigator  
Dates: 2015 -2016

Grantor: Cystic Fibrosis Therapeutics Development and Steven Rowe, MD  
Title: GOAL-OB-11 e2 A Randomized, Double-Blind, Placebo-Controlled, Parallel-Group Study to Evaluate the Safety and Efficacy of P-1037 Solution for Inhalation in Patients with Cystic Fibrosis  
Role: Sub-Investigator  
Dates: 2011 - 2016

David Troendle

Grantor: Children’s Clinical Research Advisory Committee (CCRAC)  
Title: Intravenous Ibuprofen for the Prevention of Post-ERCP Pancreatitis in Children and Adolescents, a Pilot Study  
Role: Principal Investigator  
Dates: 2014 - 2016
Peer-Reviewed Publications


