RESEARCH HIGHLIGHTS

The University of Florida Department of Pediatrics ranks in the Top 20 among pediatrics departments at public universities for National Institutes of Health, or NIH, funding, so there is no surprise that our pediatric residency program exudes a culture of research.



NIH funding awarded to UF Department of Pediatrics



of the >>>>>>>> **\$190,417,884**

total dollars that UF received in NIH funding in FY2020, the UF College of Medicine received

\$107,474,930 of it, which is 56%.

Research and contract funding helps support our centers of excellence and specialty programs, which include:

- Child Health Research Institute
- Family Data Center
- Powell Gene Therapy Center
- Powell Center for Rare Disease Research and Therapy
- Center for Neuromuscular and Orphan Diseases

- · UF Diabetes Institute
- · Prader-Willi Syndrome Program
- Turner Syndrome Center
- Cvstic Fibrosis Center
- · Pediatric Asthma Center
- · Congenital Heart Center

- Pediatric Cardiac MRI/CT Center
- · Pediatric Sarcoma Center
- Center for Breastfeeding and Newborns
- Youth Gender Program

Our research network participation includes:

- PRIS Pediatric Research in Inpatient Settings
- QullN Quality Improvement Innovation Networks
- SPS Solutions for Patient Safety
- TEDDY The Environmental Determinants of Diabetes in the Young

- TrialNet Type 1 Diabetes
- COG Children's Oncology Group
- Florida Neonatal Neurologic Network
- ImproveCareNow Research and Quality Improvement Collaborative for Inflammatory Bowel Disease

American Academy of Pediatrics Community Access to Child Health, or CATCH Grants, awarded to pediatric residents:

- Virginia Kockler, MD (2010), Smoking Cessation Resources for Mothers of Newborns
- · Olivia Potter, DO (2012), Gainesville LGBTQ Youth Group
- Nasim Moshtagh, DO (2012), Staying Ahead of Asthma
- · Christian Kegg, DO (2012), Peer-to-Peer Breastfeeding Support Group
- · Diana Montoya-Williams, MD (2013), Seventh Period: Cocooning in High School
- Michelle Spencer, MD (2014), Operation Superbugs! Combating Antibiotic Resistance
- Kourtney Guthrie, MD (2017), Mobile Pediatrics Children of Migrant Workers
- Seon Lee, MD (2018), and Brittany Bruggeman, MD (2018), Healthy Smiles Day Initiative
- · Evelyn Obregon, MD (2020), Barriers for Hispanic Uninsured Children

Sample resident research projects:

- Tav Dibert, MD: Evaluating effective imaging techniques to detect pulmonary emboli in pediatric patients with hypoplastic left heart syndrome who have undergone a Fontan procedure
- Brittany Bruggeman, MD, and Chelsea Zimmerman, MD: Prevalence and characterization of retinopathy in children with Type 1 diabetes using a nonmydriatic fundus camera
- · John-Anthony Coppola, MD: Hypoplastic left heart and the effect of the interstage UF Home Monitoring Program
- Ahsan Rizvi, MD; Brittany DiFabio, MD; Mike Derrick, MD; and Olivia Butters, MD: Program self-evaluation and educational
 practice improvement of senior resident pediatric residents' perceptions of procedural competence
- · Montserrat Corbera-Hincapie, MD: Food insecurity in the immigrant child a social intervention using virtual reality
- John Tadros, MD: Several research projects including: family functioning in pediatric heart transplantation;
 post-operative vasoactive inotrope scores in pediatric heart transplantation;
 C-reactive protein and its correlation with coronary artery vasculopathy
- Courtney Hibbs, MD: Adverse childhood experiences and examining the relationship with asthma exacerbation severity
- · Marie Nader, MD: Simulation training for pediatric advanced life support skills for global health trips
- Evelyn Obregon, MD; Elyse Chaviano, MD; and Maddie Schneck, MD: Barriers for Hispanic uninsured children
- · Holly Breeden, MD: Prospective pilot study of metabolic syndrome and non-alcoholic fatty liver disease in transgender male youth
- Asad Bashir, MD: High-density lipoprotein and triglyceride ratio and C-reactive protein as predictors of coronary artery vasculopathy in pediatric heart transplantation
- · Zach Barbara, DO: Creation of novel ultrasound curriculum for pediatric residents
- Kate Portwood, MD: Retrospective review of brachial plexus injuries to determine the prognostic abilities of Edx, MRI and Active Movement Scale to determine need for future surgical intervention
- Allison Lure, MD: Several research projects including: studying neonatal bowel injury, nSOFA scores, and creating a tool to
 differentiate NEC from SIP pre-operatively; the analysis of meconium of term neonates for transcriptomics; studying outcomes
 in children with maternal marijuana use.