

Behavioral Medicine and Clinical Psychology

Division Details

RESEARCH AND TRAINING DETAILS

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|-------------------------------------|-------------|
| Faculty | 48 |
| Joint Appointment Faculty | 2 |
| Research Fellows and Post Docs | 16 |
| Research Graduate Students | 11 |
| Total Annual Grant Award Dollars | \$9,758,908 |
| Total Annual Industry Award Dollars | \$556,199 |

CLINICAL ACTIVITIES AND TRAINING

| | |
|-----------------------|--------|
| Staff Psychologists | 30 |
| Clinical Fellows | 3 |
| Inpatient Encounters | 5,407 |
| Outpatient Encounters | 51,897 |



Row 1: E McTate, K Bedard-Thomas, E Messer, S Guilfoyle, L Stark, J Cyran

Row 2: S Slater, A Pai, L Crosby, W Lopez, D Graef, J McClure, T Proano-Raps, N Joffe

Row 3: N Zahka, J Kichler, A Scott, H Bensman, L Merk, H Unrue, S Williams, R Brewer, K Byars, T Caudill, K Huiet

Row 4: B Hagood, G Shelby, S Kashikar-Zuck, H Ciesielski, R Apsehoff, J Myers, R Loren, D Beebe, R Nestheide, M McCann, L Tamm, S Powers

Row 5: L Szulczewski, N Cunningham, M Mellon, J Epstein, R Ramsey, S Beal

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Division Highlights

Avani Modi, PhD

Dr. Avani Modi's research focuses on developing interventions to improve adherence in children and adolescents with epilepsy. Dr. Modi has two National Institutes of Health (NIH) intervention grants for youth with epilepsy. Dr. Modi led a team of interdisciplinary researchers (education technology experts, neuropsychologists, graphic designers, and videographers) to develop and test an executive functioning intervention for adolescents with epilepsy, called Epilepsy Journey. This new intervention program received the 1st place Crystal Award from the Association for Educational and Communications Technology Division of Distance Learning. Dr. Modi's research program has garnered local and national recognition. She was one of three recipients of the inaugural 2017 Endowed Scholar Award (booster chair) from Cincinnati Children's Hospital Medical Center. She also received the Mid-Career Research Scientist Award, and represented Cincinnati Children's at the University of Cincinnati award ceremony. She was recently recognized as the 2017 Outstanding Alumna of the Year within the Department of Clinical and Health Psychology in the College of Public Health and Health Professions at the University of Florida.

Dr. Modi has an active research program in adherence to medical regimens and patient-reported outcomes, leads the psychosocial service for the New Onset Seizure Disorder Clinic, and plays a critical role on several NIH and PCORI funded grants with collaborators across the

nation. Using her pediatric self-management model helps to better understand the complex factors and processes in the management of pediatric chronic conditions. She continues to advance adherence science with her colleagues in the [Center for Treatment Adherence and Self-Management](#).

Center for Adherence and Self-Management

The [Center for Adherence and Self-Management](#), in the Division of Behavioral Medicine and Clinical Psychology, has received funding for a renewal of the “Enhancing Pediatric Treatment Adherence and Health Outcomes” T32 postdoctoral training program. This fellowship program trains both MD and PhD researchers to assume leadership roles in developing innovative, high impact research on adherence to medical treatment and chronic illness management that will enhance the health outcomes of children with chronic conditions. Specific training innovations involve the integration of biomedical, behavioral, biostatistics, and health services/outcomes research and reflects in comprehensive training curriculum and research opportunities. Research innovations include novel methods of adherence assessment and intervention involving technology designed to enhance the engagement of children and adolescents, improve the power and duration of intervention effects, and reach diverse populations who cannot easily access traditional clinic-based approaches. This training grant involves a collaboration among 13 divisions in Cincinnati Children's Hospital Medical Center, with primary mentors in the Center for Adherence and Self-Management. Thus far, the program has trained nine PhD fellows and five MD fellows, and graduates have been successful in obtaining early career funding from the National Institutes of Health (NIH) (eg, K07).

Sarah Beal, PhD

Dr. Sarah Beal's research examines development during adolescence and the transition to adulthood, with a specific focus on the impact of child welfare involvement on health and well being during this phase in the lifespan. Dr. Beal has a grant funded by the National Institutes of Health to examine the onset of substance use and sexual risk behavior among teens and young adults with a history of child welfare involvement. The goal of the grant is to use data integrated from child welfare records, and the electronic health record, to assist clinicians and caregivers in connecting young people with preventive services. Additionally, she and Dr. Mary Greiner, MD, MS, in the [Division of General and Community Pediatrics](#) lead an interdisciplinary team (biomedical informatics experts, child welfare professionals, graphic designers, and clinicians) developing a platform to display integrated child welfare and health records data for clinicians and caseworkers to use at the point of care. This will, for the first time, provide up-to-date health and child welfare records for children in the custody of [Hamilton County Jobs and Family Services](#), and serves as a model expandable to other regions. Additionally, funding from the [CareSource Foundation](#) supports a longitudinal study of young people preparing for emancipation from child welfare, and examines the impact of education about healthcare on healthcare utilization as well as the health status for this vulnerable population of young people. These studies have allowed Dr. Beal, and her collaborators in Divisions of General and Community Pediatrics, [Emergency Medicine](#), and [Biomedical Informatics](#) to integrate research findings at the point of care, improving health service delivery and, ultimately, the health and well being of young people in foster care in our community.

Division Publications

1. Powers SW; Coffey CS; Chamberlin LA; Ecklund DJ; Klingner EA; Yankey JW; Korbee LL; Porter LL; Hershey AD; Investigators CHAMP. [Trial of Amitriptyline, Topiramate, and Placebo for Pediatric Migraine](#). *The New England journal of medicine*. 2017; 376:115-124.
2. Inge TH; Jenkins TM; Xanthakos SA; Dixon JB; Daniels SR; Zeller MH; Helmrath MA. [Long-term outcomes of bariatric surgery in adolescents with severe obesity \(FABS-5+\): a prospective follow-up analysis](#). *Lancet Diabetes and Endocrinology*. 2017; 5:165-173.
3. Shalev I; Heim CM; Noll JG. [Child Maltreatment as a Root Cause of Mortality Disparities A Call for Rigorous Science to Mobilize Public Investment in Prevention and Treatment](#). *JAMA Psychiatry*. 2016; 73:897-898.

4. Epstein JN; Kelleher KJ; Baum R; Brinkman WB; Peugh J; Gardner W; Lichtenstein P; Langberg JW. **Specific Components of Pediatricians' Medication-Related Care Predict Attention-Deficit/Hyperactivity Disorder Symptom Improvement.** *Journal of the American Academy of Child and Adolescent Psychiatry.* 2017; 56:483-490.e1.
5. Roy A; Hechtman L; Roy A; Arnold LE; Sibley MH; Molina BSG; Swanson JM; Howard AL; Vitiello B; Severe JB. **Childhood Factors Affecting Persistence and Desistence of Attention-Deficit/Hyperactivity Disorder Symptoms in Adulthood: Results From the MTA.** *Journal of the American Academy of Child and Adolescent Psychiatry.* 2016; 55:937-944.e4.
6. Hechtman L; Swanson JM; Sibley MH; Stehli A; Owens EB; Mitchell JT; Arnold LE; Molina BSG; Hinshaw SP; Jensen PS. **Functional Adult Outcomes 16 Years After Childhood Diagnosis of Attention-Deficit/Hyperactivity Disorder: MTA Results.** *Journal of the American Academy of Child and Adolescent Psychiatry.* 2016; 55:945-952.e2.
7. Swanson JM; Arnold LE; Molina BSG; Sibley MH; Hechtman LT; Hinshaw SP; Abikoff HB; Stehli A; Owens EB; Mitchell JT. **Young adult outcomes in the follow-up of the multimodal treatment study of attention-deficit/hyperactivity disorder: symptom persistence, source discrepancy, and height suppression.** *The Journal of Child Psychology and Psychiatry and Allied Disciplines.* 2017; 58:663-678.
8. Sibley MH; Swanson JM; Arnold LE; Hechtman LT; Owens EB; Stehli A; Abikoff H; Hinshaw SP; Molina BSG; Mitchell JT. **Defining ADHD symptom persistence in adulthood: optimizing sensitivity and specificity.** *The Journal of Child Psychology and Psychiatry and Allied Disciplines.* 2017; 58:655-662.
9. Becker SP; Withrow AR; Stoppelbein L; Luebbe AM; Fite PJ; Greening L. **Sluggish cognitive tempo is associated with suicide risk in psychiatrically hospitalized children.** *The Journal of Child Psychology and Psychiatry and Allied Disciplines.* 2016; 57:1390-1399.
10. Leopold DR; Christopher ME; Burns GL; Becker SP; Olson RK; Willcutt EG. **Attention-deficit/hyperactivity disorder and sluggish cognitive tempo throughout childhood: temporal invariance and stability from preschool through ninth grade.** *The Journal of Child Psychology and Psychiatry and Allied Disciplines.* 2016; 57:1066-1074.
11. Minen MT; De Dhaem OB; Van Diest AK; Powers S; Schwedt TJ; Lipton R; Silbersweig D. **Migraine and its psychiatric comorbidities.** *Journal of neurology, neurosurgery, and psychiatry.* 2016; 87:741-749.
12. Hoogman M; Bralten J; Hibar DP; Mennes M; Zwiers MP; Schweren LSJ; van Hulzen KJE; Medland SE; Shumskaya E; Jahanshad N. **Subcortical brain volume differences in participants with attention deficit hyperactivity disorder in children and adults: a cross-sectional mega-analysis.** *Lancet Psychiatry.* 2017; 4:310-319.
13. Sibley MH; Mitchell JT; Becker SP. **Method of adult diagnosis influences estimated persistence of childhood ADHD: a systematic review of longitudinal studies.** *Lancet Psychiatry.* 2016; 3:1157-1165.
14. Taylor HG; Bowen SR; Beebe DW; Hodges E; Amin R; Arens R; Chervin RD; Garetz SL; Katz ES; Moore RH. **Cognitive Effects of Adenotonsillectomy for Obstructive Sleep Apnea.** *Pediatrics.* 2016; 138:e20154458.
15. Epstein JN; Kelleher KJ; Baum R; Brinkman WB; Peugh J; Gardner W; Lichtenstein P; Langberg JM. **Impact of a Web-Portal Intervention on Community ADHD Care and Outcomes.** *Pediatrics.* 2016; 138:e20154240.
16. O'Connor AM; Wray J; Tomlinson RS; Cassidy A; Jacobs JP; Jenkins KJ; Brown KL; Franklin RCG; Mahony L; Mussatto K. **Impact of Surgical Complexity on Health-Related Quality of Life in Congenital Heart Disease Surgical Survivors.** *Journal of the American Heart Association : Cardiovascular and Cerebrovascular Disease.* 2016; 5.
17. Batalden M; Batalden P; Margolis P; Seid M; Armstrong G; Opiari-Arrigan L; Hartung H. **Coproduction of healthcare service.** *BMJ Quality and Safety.* 2016; 25:509-517.
18. Thomas NH; Xanthopoulos MS; Kim JY; Shults J; Escobar E; Giordani B; Hodges E; Chervin RD; Paruthi S; Rosen CL. **Effects of Adenotonsillectomy on Parent-Reported Behavior in Children With Obstructive Sleep Apnea.** *Sleep.* 2017; 40.

19. Beebe DW; Field J; Milller MM; Miller LE; LeBlond E. **Impact of Multi-Night Experimentally Induced Short Sleep on Adolescent Performance in a Simulated Classroom.** *Sleep.* 2017; 40.
20. Beebe DW. **WEIRD Considerations When Studying Adolescent Sleep Need.** *Sleep.* 2016; 39:1491-1492.
21. Tamm L; Denton CA; Epstein JN; Schatschneider C; Taylor H; Arnold LE; Bukstein O; Anixt J; Koshy A; Newman NC. **Comparing Treatments for Children With ADHD and Word Reading Difficulties: A Randomized Clinical Trial.** *Journal of Consulting and Clinical Psychology.* 2017; 85:434-446.
22. Thomson KE; Modi AC; Glauser TA; Rausch JR; White HS. **The impact of nonadherence to antiseizure drugs on seizure outcomes in an animal model of epilepsy.** *Epilepsia.* 2017; 58:1054-1062.
23. Wagner JL; Modi AC; Johnson EK; Shegog R; Escoffery C; Bamps Y; Austin JK; Schultz RJ; MapelLentz S; Smith G. **Self-management interventions in pediatric epilepsy: What is the level of evidence?.** *Epilepsia.* 2017; 58:743-754.
24. Wagner JL; Kellermann T; Mueller M; Smith G; Brooks B; Arnett A; Modi AC. **Development and validation of the NDDI-E-Y: a screening tool for depressive symptoms in pediatric epilepsy.** *Epilepsia.* 2016; 57:1265-1270.
25. McCullough MB; Robson SM; Stark LJ. **A Review of the Structural Characteristics of Family Meals with Children in the United States.** *Advances in nutrition (Bethesda, Md.).* 2016; 7:627-640.

Grants, Contracts, and Industry Agreements

Annual Grant Award Dollars

| Investigator | Title | Sponsor | ID | Dates | Amount |
|---------------------------------|---|---|---------------------|-------------------------------|-----------|
| Kevin A Hommel, PhD | Development of the Self-management Transition Enhancement Program (STEP) | Crohn's & Colitis Foundation of America | 285083 | 10/01/2013 - 10/31/2017 | \$90,000 |
| Ahna L. H. Pai, PhD | A Clinic-Based Interdisciplinary Intervention for Parents of Children with Cancer | National Institutes of Health | R01 NR014248 | 09/26/2014 - 07/31/2019 | \$633,139 |
| Susmita M Kashikar-Zuck, PhD | Behavioral Interventions and Long Term Outcomes in Juvenile Fibromyalgia Syndrome | National Institutes of Health | K24 AR056687 | 08/01/2014 - 07/31/2019 | \$167,108 |
| Margaret Helen Zeller, PhD | Adolescent Bariatric Surgery: Weight and Psychosocial Risk in Young Adulthood | National Institutes of Health | R01 DK080020 | 06/01/2014 - 05/31/2019 | \$423,628 |
| Dean W Beebe, PhD | Sleep Restriction and the Adolescent Diet: Impact and Mechanisms | National Institutes of Health | R01 HL120879 | 09/01/2014 - 06/30/2018 | \$466,506 |
| Heather Elizabeth Bensman, PSYD | Health & Wellbeing of Sexually Abused Females & Offspring: 25 and 27 yr. Followup | National Institutes of Health (Pennsylvania State University) | R01 HD072468 | 08/15/2013 - 01/31/2017 | \$45,738 |
| Leanne Tamm, PhD | Improving Self-Regulation and School Readiness in Preschoolers | Brady Education Foundation | Brady Foundation | 12/31/2014 - 12/30/2017 | \$98,689 |

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| Jeffery N Epstein, PhD | Neuroimaging Study of Risk Factors for Adolescent Bipolar Disorder | National Institutes of Health (University of Cincinnati) | R01 MH097818 | 07/08/2015 - 06/30/2020 | \$32,364 |
| Stephen P Becker | A Multi-Method Investigation to Distinguish Sluggish Cognitive Tempo from ADHD | National Institutes of Health | K23 MH108603 | 09/18/2015 - 08/31/2020 | \$135,000 |
| Meghan E McGrady, PhD | Patient Preferences and Adherence in Adolescents and Young Adults with Cancer | National Institutes of Health | K07 CA200668 | 05/01/2016 - 04/30/2021 | \$144,855 |
| Avani Modi, PhD | Web-based Intervention to Improve Executive Functioning in Teens with Epilepsy | National Institutes of Health | R21 HD083335 | 02/12/2016 - 01/31/2018 | \$195,000 |
| Stephen P Becker | Cognitive and Behavioral Effects of Sleep Restriction in Adolescents with ADHD | National Institutes of Health | R03 MH109787 | 05/01/2016 - 04/30/2018 | \$70,200 |
| Jeffery N Epstein, PhD | Improving ADHD Teen Driving by Targeting Visual Inattention to the Roadway | National Institutes of Health | R01 HD084430 | 04/01/2016 - 03/31/2021 | \$570,730 |
| Lori E Crosby, PSYD | SCThrive: Improving Self-Management in Adolescents with Sickle Cell Disease | National Institutes of Health | R21 HD084810 | 04/01/2016 - 03/31/2018 | \$195,000 |
| Stephen P Becker | Longitudinal Evaluation of the Impact of Sleep Problems on the Academic and Social Functioning of Adolescents with and without ADHD | US Department of Education (Virginia Commonwealth University) | R305A160126 | 07/01/2016 - 06/30/2020 | \$178,757 |
| Stephen P Becker | Sluggish Cognitive Tempo: Examining its Impact on Educational Functioning | US Department of Education | R305A160064 | 08/01/2016 - 07/31/2020 | \$340,742 |
| Ahna L. H. Pai, PhD | Screen to Intervene: A Family-Centered Approach to Identifying and Communicating Family Psychosocial Risk and Developing Evidence Based Clinical Pathways in Hematopoietic Stem Cell Transplantation | Alex's Lemonade Stand Foundation (The Nemours Foundation) | Alex's lemonade stand | 01/15/2016 - 01/14/2019 | \$38,620 |
| Jeffery N Epstein, PhD | Improving ADHD Behavioral Care Quality in Community-Based Pediatric Settings | Agcy for Healthcare Research and Quality | R18 HS024690 | 07/01/2016 - 04/30/2020 | \$792,944 |
| Kevin A Hommel, PhD | MigraineManager: A Self-Management Health Care | National Institutes of Health | R21 NS094476 | 05/01/2016 - 04/30/2018 | \$195,000 |

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| | Resource for Pediatric Migraine | | | | |
| Ahna L. H. Pai, PhD | Nonadherence: Undermining Health Outcomes in Pediatric HSCT | National Institutes of Health | R01 CA157460 | 03/01/2016 - 02/28/2018 | \$269,432 |
| Kevin A Hommel, PhD | Enhancing Treatment Adherence and Health Outcomes | National Institutes of Health | T32 HD068223 | 05/01/2016 - 04/30/2017 | \$6,143 |
| Sarah J Beal, PhD | Using Administrative and Clinical Data to Detect Drug Use and HIV Risk in Foster Care | National Institutes of Health | K01 DA041620 | 02/15/2017 - 01/31/2022 | \$173,475 |
| Scott W Powers, PhD Margaret H Zeller | Research Training in Child Behavior and Nutrition | National Institutes of Health | T32 DK063929 | 07/01/2016 - 06/30/2018 | \$221,770 |
| Dennis D Drotar, PhD | Self-Management of Type 1 Diabetes During Adolescence | National Institutes of Health | R01 DK069486 | 07/01/2016 - 06/30/2018 | \$582,008 |
| Kevin A Hommel, PhD | Enhancing Pediatric Treatment Adherence and Health Outcomes | National Institutes of Health | T32 HD068223 | 05/04/2017 - 04/30/2022 | \$252,844 |
| Robert T Ammerman, PhD | Engaging Fathers in Home Visitation: Incorporation of a Co-Parenting Intervention | National Institutes of Health | R01 HD069431 | 07/01/2016 - 06/30/2018 | \$442,642 |
| Jennie G Noll, PhD | Abused and Non-abused Females' High-risk Online Behaviors: Impact on Development | National Institutes of Health | R01 HD073130 | 07/01/2016 - 06/30/2018 | \$562,462 |
| Susmita M Kashikar-Zuck, PhD | Multi-site Randomized Clinical Trial of FIT Teens for Juvenile Fibromyalgia | National Institutes of Health | R01 AR070474 | 06/21/2017 - 05/30/2022 | \$1,766,427 |
| Lisa C Opiari-Arrigan, PhD | Improving Dietary Adherence: Translating a Web-intervention into CF care | Cystic Fibrosis Fdn Therapeutics, Inc (Children's Hospital Boston) | eHealth | 01/01/2016 - 12/31/2018 | \$594,967 |
| Jeffery N Epstein, PhD | An Exploratory Study to Assess the Sustained Effects of Digital Therapy in Pediatric Subjects Ages 8 to 12 Years Old with Attention Deficit Hyperactivity Disorder (ADHD) | Duke University | Duke;Akili | 09/12/2016 - 03/21/2018 | \$57,719 |
| Rachel Anne Becker Herbst, PhD | Impact of a Behavioral Health Resident Education Curriculum | Academic Pediatric Association | Young Investigator | 03/01/2017 - 02/28/2018 | \$14,999 |

on Physician Communication
and Parental Behavior

Total Annual Grant Award Dollars

\$9,758,908

Annual Industry Award Dollars

| Investigator | Industry Sponsor | Amount |
|-------------------------------------|-------------------------------|-----------|
| Scott W Powers, PhD | Vasa Applied Technologies Ltd | \$556,199 |
| Total Annual Industry Award Dollars | | \$556,199 |
