Behavioral Medicine and Clinical Psychology

Division Photo


Division Data Summary

<table>
<thead>
<tr>
<th>Research and Training Details</th>
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<tr>
<td>Number of Faculty</td>
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<td>Number of Joint Appointment Faculty</td>
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<td>Number of Research Fellows</td>
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<td>Peer Reviewed Publications</td>
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<th>Clinical Activities and Training</th>
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<td>Number of Clinical Staff</td>
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<td>Outpatient Encounters</td>
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Significant Publications


These findings represent the first published report that supports the mediational role of adherence between depression and glycemic control in adolescents. This also provides support for our conceptual framework to develop interventions for adolescents with type 1 diabetes and depressive symptoms by treating depressive symptoms before attempting to promote adherence. Data collected from the K23 were analyzed by a UC graduate student, Meghan McGrady, who is conducting her dissertation research with Dr. Hood.

This is the first study to compare objective and subjective ratings of medication adherence in the two most common medications used to treat IBD. It also is the first to distinguish between prevalence of nonadherence and frequency of nonadherence.


This is the first summary of recommendations for a future agenda for research on the ethics of treatment and intervention research with children and adolescents with behavioral and mental disorders. This was based on a consensus conference of an interdisciplinary (pediatrics, psychology, sociology, bioethics, child and adolescent psychiatry) group of investigators that was convened by the author. The recommendations provide a roadmap for research priorities in this important new area of research.

This is the first summary of recommendations for a future agenda for research on the ethics of treatment and intervention research with children and adolescents with behavioral and mental disorders. This was based on a consensus conference of an interdisciplinary (pediatrics, psychology, sociology, bioethics, child and adolescent psychiatry) group of investigators that was convened by the author. The recommendations provide a roadmap for research priorities in this important new area of research.


This manuscript details results from the first study of its kind to objectively quantify avatar choices in a lab setting and to simultaneously relate these choices to adolescent risk behaviors associated with internet-initiated victimization. Along with a host of additional risk-factors, provocative avatars (via empirical quantification) and confirmed childhood abuse were among the significant and independent risk-factors associated with on-line sexual advances and, in turn, off-line, in-person encounters. This report constitutes substantial advances in explicating how internet self-presentations can render adolescents vulnerable to internet-initiated exploitation and victimization. Findings will aid in education and prevention efforts aimed at reducing victimization and will serve to enhance the comprehensive care of adolescents.


This is the first published study to use functional neuroimaging to study the impact of sleep deprivation on the brain activation patterns of children, and the first to look at such effects after chronic sleep restriction in any sample. Studying the effect of chronic sleep restriction in adolescents is particularly relevant in light of the high base rate of sleep restriction in this developmental period, and promises to provide insight into the mechanisms by which such sleep restriction could impact both immediate functional deficits and long-term changes in neural organization. These preliminary findings form the foundation of a new externally-funded follow-up study.


This study is the first to document the prevalence and course of depressive symptoms in mothers participating in a child abuse prevention program. It documents the high rate of depression in this high risk sample, highlights the fact that most depressed mothers do not receive mental health treatment, and delineates predictors of worsening course. In particular, a history of interpersonal trauma emerged as a strong predictor of continued depressive symptoms over the first year of service.

**Division Highlights**

### Launching Research Careers and Success with Transitions of NIH K Awards to R01s

The National Institutes of Health established Mentored Research Career Development Awards (K23 and K01) in 1998 to promote entry of new investigators into research careers. These awards provide significant protected time to develop programmatic lines of research, with the average award being approximately $135,000 a year. Despite this and other initiatives to promote the entry and career development of new investigators the percentage of new investigators that achieve R01 awards was only 25 to 30% of all new R01s awarded between 1998 and 2007. Making sure junior faculty have the necessary tools and mentorship to launch and maintain a research career is an important mission of the Division of Behavioral Medicine and Clinical Psychology. This year was especially notable for the transition of many of our early career faculty to R level awards from the National Institutes of Health. Dr. Korey Hood, an assistant professor in our Adherence Center who currently holds a K23, received a R03 to examine a family-based psychosocial intervention to treat depression in youth with type 1 diabetes. Dr. Dean Beebe, an associate professor in our neuropsychology program, successfully transitioned from a Research Career Development Award (K23) to an R01 focused on understanding the effect of sleep deprivation on the neurobehavioral functioning in teens. Dr. Josh Langberg, a second year assistant professor in our ADHD Center, received an R01 to examine innovative school-based treatment approaches for adolescents with ADHD, and an independent award treatment development grant from
the US Department of Education to examine the effectiveness of an organizational skills intervention for children with ADHD. These transitions and accomplishments are especially notable in the current NIH budget climate where only the most significant, innovative, and well-written science is getting funded, and are a testament to the mentorship provided by faculty across our Division.

**Division Collaboration**

**Collaboration with Mayerson Center for Safe and Healthy Children**
**Collaborating Faculty:** Putnam, FW
Dr. Robert Ammerman has been working with Dr. Putnam in the Mayerson Center for Safe and Healthy Children. Dr. Putnam is a co-investigator in research on the impact of home visitation on high risk mothers and children, treatment of postpartum depression in first-time mothers in home visitation, and impact of motivational interviewing on retention and adherence in prevention programs.

**Collaboration with Division of Biostatistics and Epidemiology**
**Collaborating Faculty:** Altaye, M
Dr. Robert Ammerman is working with Dr. Mekibib Altaye from the Division of Biostatistics and Epidemiology. Dr. Altaye is co-investigator and biostatistician on funded studies of retention and adherence in home visitation and treatment of postpartum depression in mothers in home visitation.

**Collaboration with Health Policy and Clinical Effectiveness**
**Collaborating Faculty:** Donovan, EF
Dr. Robert Ammerman has been working with Dr. Edward Donovan from Health Policy and Clinical Effectiveness. Dr. Donovan is a co-investigator in ongoing research efforts in Every Child Succeeds examining infant mortality and related clinical issues.

**Collaboration with Health Policy and Clinical Effectiveness**
**Collaborating Faculty:** Phelan, KJ
Dr. Robert Ammerman and Dr. Kieran Phelan are working on adapting an intervention to prevent injury in young children for use in the context of home visitation. The injury prevention intervention, designed and evaluated by Dr. Phelan in the ongoing Home Study, has significant promise for the high risk populations served in home visitation.

**Collaboration with Division of Child Psychiatry**
**Collaborating Faculty:** Harris, E
Dr. Robert Ammerman is working as a co-investigator with Dr. Elana Harris on her pilot study (Dr. Harris is also working with Donald L. Gilbert, M.D. from Neurology and Mark DeFancesco, Ph.D. from Radiology) on treating obsessive-compulsive disorder in children using repetitive transcranial magnetic stimulation.

**Collaboration with Center for Health Care Quality**
**Collaborating Faculty:** Margolis, P
Dr. Peter Margolis has been collaborating with Dr. Robert Ammerman by providing consultation and support for the Quality Improvement Program in Every Child Succeeds.

**Collaboration with Division of Pulmonary Medicine; Division of Pediatric Otolaryngology**
**Collaborating Faculty:** Amin, RS; Willging, JP
Dr. Dean Beebe has been working as a co-investigator with Drs. Raouf Amin and Paul Willging on the CHAT study, an NIH-supported, multisite study investigating the impact of adenotonsillectomy on the sleep and daytime neurobehavioral functioning of children with obstructive sleep apnea.

**Collaboration with Department of Radiology; Neurology Division**
**Collaborating Faculty:** Holland, SK; DiFrancesco, M; Rose, DF
In collaboration with Drs. Holland and DiFrancesco from Radiology and Dr. Rose from Neurology, Dr. Dean Beebe is the PI on an NIH-funded study of the impact of experimental sleep restriction on neurobehavioral and functional neural activation in otherwise healthy adolescents.

**Collaboration with Division of Rheumatology ; Department of Radiology**
**Collaborating Faculty:** Brunner, HI; Holland, SK; DiFrancesco, M
Dr. Dean Beebe has been working with Drs. Brunner, Holland, and DiFrancesco as a co-investigator on an NIH-funded grant investigating the neurocognitive and functional neuroimaging sequelae of pediatric lupus.

**Collaboration with Division of Cardiology; OT/Patient Services**
**Collaborating Faculty:** Marino, BS; Mun-Bryce, SA
Dr. Dean Beebe has been working with Dr. Bradley Marino from Cardiology and Dr. Sheila Mun-Bryce from OT/Patient Services as co-investigator on a study of the medical and neuropsychological predictors of quality of life in survivors of childhood cardiac disease.
Collaboration with Division of Pulmonary Medicine; Division of Pediatric Otolaryngology; Division of Cardiology
Collaborating Faculty: Amin, RS; Willging, JP; Kimball, TR
In conjunction with Drs. Amin, Willging, and Kimball, Dr. Dean Beebe has added targeted neurobehavioral outcome measures to an NIH-funded study initially designed to look at the mediators of cardiac morbidity in children with obstructive sleep apnea. The goal of Dr. Beebe's addition is to gather pilot data on whether those mediators also contribute to neurobehavioral morbidity.

Collaboration with Neurology Division; Division of Pulmonary Medicine
Collaborating Faculty: Jain, S; Glauser, TA; Simakajornboon, N
Dr. Dean Beebe has been working with Drs. Jain, Glauser, and Simakajornboon as a co-investigator on a pilot study examining the impact of melatonin treatment on sleep, seizure frequency, and neurobehavioral functioning in children with epilepsy.

Collaboration with Division of Cardiology
Collaborating Faculty: Uzark, K
Dr. Dean Beebe has been working with Dr. Karen Uzark from Cardiology as a co-investigator on a study that examined the neurobehavioral outcomes of children a year post cardiac transplantation. Related paper is now in press.

Collaboration with Division of Pulmonary Medicine; Division of Cardiology
Collaborating Faculty: Amin, RS; Kirk, S
Dr. Dean Beebe has been working with Drs. Amin and Kirk, analyzing data from his now-completed K23 that examines the impact of sleep pathology on the neurobehavioral functioning, metabolic functioning, dietary choices, and success in weight management among overweight children and adolescents. Multiple papers have been published or are under review.

Collaboration with Center for Environmental Health, General Pediatrics
Collaborating Faculty: Yolton, K
Dr. Dean Beebe has been working with Dr. Yolton on an NIH-funded project linking environmental tobacco smoke to childhood sleep and behavioral disturbances. A manuscript under review examines the impact of environmental tobacco smoke on sleep; another will look at the degree to which sleep changes mediates the relationships between smoke exposure and daytime behaviors.

Collaboration with Division of General and Community Pediatrics
Collaborating Faculty: Yolton, K
Dr. Dean Beebe has been working with Dr. Yolton on an integrated sleep measures into longitudinal NIH-funded research project that investigates the effects of environmental factors on child development from infancy through 36 months. The goal of the collaboration will be to examine the interrelationship between these environmental conditions, sleep, and neurobehavioral development over time.

Collaboration with Division of Physical Medicine and Rehabilitation
Collaborating Faculty: Wade, S
Dr. Dean Beebe has been working with Dr. Shari Wade to convert integrated sleep measures into an ongoing, NIH-funded longitudinal study of outcome following traumatic brain injury (TBI) in preschool children. The goals of this collaboration include examining the impact of TBI on sleep over time, as well as whether sleep predicts neurobehavioral recovery after TBI.

Collaboration with Division of Developmental and Behavioral Pediatrics
Collaborating Faculty: Gilman, RC
Dr. Dean Beebe has been working with Dr. Richard Gilman and two others from the Division of Developmental and Behavioral Pediatrics. Dr. Beebe oversees the sleep assessment aspects of Dr. Gilman's pilot study of the impact of improved sleep on the behaviors of children with ADHD.

Collaboration with Division of Gastroenterology, Hepatology, & Nutrition
Collaborating Faculty: Heubi, JE
Through the GCRC Behavioral Core, Dr. Dean Beebe is involved with Dr. Heubi in the CLiC study, which examines longitudinal outcomes in children with intrahepatic cholestasis.

Collaboration with Heart Institute
Collaborating Faculty: Krawczeski, CD
Through the GCRC Behavioral Core, Dr. Dean Beebe is involved in Dr. Krawczeski's Single Ventricle Reconstruction (SVR) study, which is looking at short- and long-term medical and functional outcomes after SVR surgery in children.

Collaboration with Division of Nephrology
Collaborating Faculty: Strife, CF
Through the GCRC Behavioral Core, Dr. Dean Beebe is involved with Dr. Strife's Chronic Kidney Disease (CKID) study, examining the causes and consequences of chronic kidney disease in children.

Collaboration with Division of Gastroenterology, Hepatology, and Nutrition
Collaborating Faculty: Bucuvalas, JC
Through the GCRC Behavioral Core, Dr. Dean Beebe is involved in Dr. John Bucuvalas' Biliary Atresia Research Consortium (BARC) study, examining the causes and consequences of biliary atresia in children.

Collaboration with Gastroenterology, Hepatology, and Nutrition
Collaborating Faculty: Bucuvalas, JC
Through the GCRC Behavioral Core, Dr. Dean Beebe is involved in Dr. John Bucuvalas' Functional Outcomes in Pediatric Liver Transplantation (FOG) study.

Collaboration with Neurology Division
Collaborating Faculty: Glauser, TA
Through the GCRC Behavioral Core, Dr. Dean Beebe is involved in Dr. Tracy Glauser's Childhood Absence Epilepsy (CAE) study examining the impact of different medication regimens on children with new onset absence epilepsy.

Collaboration with Division of Hematology/Oncology
Collaborating Faculty: Smith, FO
Through the GCRC Behavioral Core, Dr. Dean Beebe has limited involvement in Dr. Frank Smith's Oxandrolone study.

Collaboration with Division of Pulmonary Medicine
Collaborating Faculty: Amin, RS; Simakajornboon, N
Dr. Kelly Byars has been working with Dr. Raouf Amin and Dr. Narong Simakajornboon on investigations examining 1) barriers to adherence in children using continuous positive airway pressure to treat obstructive sleep apnea and 2) the prevalence of behavioral sleep disorders in patients referred for evaluation of obstructive sleep apnea.

Collaboration with Division of Endocrinology
Collaborating Faculty: Dolan, LM
Dr. Dennis Drotar has been working with Dr. Larry Dolan on an R01: multisite descriptive study of adherence and self-management in ALL.

Collaboration with Division of Clinical Pharmacology
Collaborating Faculty: Vinks, AA
Dr. Dennis Drotar has been working with Dr. Sander Vinks on an R01: multisite randomized trial of problem solving intervention to promote treatment.

Collaboration with Division of Hematology/Oncology
Collaborating Faculty: Perentesis, JP
Dr. Dennis Drotar has been working with Dr. John Perentesis on an R01: multisite randomized trial of problem solving intervention to promote treatment adherence for ALL.

Collaboration with Division of Pulmonary Medicine
Collaborating Faculty: Seid, M
Dr. Dennis Drotar has been working with Dr. Michael Seid on an R21: cell phone intervention to promote treatment adherence in adolescents with asthma.

Collaboration with Division of Pulmonary Medicine
Collaborating Faculty: Kercsmar, CM
Dr. Dennis Drotar has been working with Dr. Carolyn Kercsmar on a pilot study of the impact of feedback to physicians concerning treatment adherence in pediatric asthma on health outcomes.

Collaboration with Division of Adolescent Medicine
Collaborating Faculty: Britto, MT
Dr. Dennis Drotar has been working with Dr. Maria Britto on a pilot study of the effectiveness of interventions to promote treatment adherence in adolescents with asthma.

Collaboration with Division of Allergy/Immunology
Collaborating Faculty: Hershey, GK
Dr. Dennis Drotar has been working with Dr. Neeru Hershey on data analysis and a manuscript concerning the genetics of health-related quality of life in pediatric asthma.

Collaboration with Division of Gastroenterology, Hepatology, & Nutrition/Liver Transplantation
Collaborating Faculty: Bucuvalas, JC
Dr. Dennis Drotar has been working with Dr. John Bucuvalas on a new multisite R01: to validate a bioassay based measure of treatment adherence.

Collaboration with Division of Rheumatology
Collaborating Faculty: Brunner, HI
Dr. Dennis Drotar has been working with Dr. Brunner on a health outcomes grant to study the efficacy of text messaging and motivational interviewing on adherence in adolescents with lupus.

Collaboration with Division of Health Policy and Clinical Effectiveness
Collaborating Faculty: Simpson, L; Lannon, C
Dr. Dennis Drotar has been working with Drs. Simpson and Lannon on a review of research on the impact of medication formulation on adherence.

Collaboration with Division of Health Policy and Clinical Effectiveness
Collaborating Faculty: Margolis, P; Simpson, L
Dr. Dennis Drotar has been working with Drs. Margolis and Simpson on the Collaboration Health Services Research Matrix steering committee.

Collaboration with Division of Cardiology
Collaborating Faculty: Marino, BS
Dr. Dennis Drotar has been working with Dr. Bradley Marino in ongoing studies of health-related quality of life in congenital heart disease.

Collaboration with Division of Biostatistics and Epidemiology
Collaborating Faculty: Ittenbach, RF; Cassidy, A
Dr. Dennis Drotar has been working with Drs. Ittenbach and Cassidy on a review of adherence research in congenital heart disease; studies of the measurement of treatment adherence in type I diabetes: measurement properties of the Diabetes Self Management Profile.

Collaboration with Division of Developmental and Behavioral Pediatrics
Collaborating Faculty: Froehlich, TE
Dr. Jeff Epstein served as the primary mentor on Dr. Tanya Froehlich's K12 award and now serves as the primary mentor on her K23 award.

Collaboration with Division of Developmental and Behavioral Pediatrics
Collaborating Faculty: Gilman, RC
Dr. Jeff Epstein is mentoring Dr. Richard Gilman on a research project he is developing to examine interventions for sleep problems in children with ADHD.

Collaboration with General and Community Pediatrics
Collaborating Faculty: Brinkman, WB
Dr. Jeff Epstein serves as the primary mentor on Dr. Bill Brinkman's KL2 award. He is also the primary mentor on a K23 award that he submitted to NIH and received a score of 10 and will likely be funded in the coming months.

Collaboration with General and Community Pediatrics
Collaborating Faculty: Lichtenstein, P
Dr. Jeff Epstein collaborates with Dr. Phil Lichtenstein, who is the medical director for the ADHD Collaborative, a community-based intervention to improve the quality of ADHD care in the Cincinnati area.

Collaboration with Division of Child Psychiatry
Collaborating Faculty: Delgado, SV
Dr. Delgado is working as the physician on an industry-funded clinical trial for which Dr. Jeff Epstein is the PI.

Collaboration with Division of Child Psychiatry
Collaborating Faculty: Kowatch, RA
Dr. Jeff Epstein and one of his post-doctoral fellows have been working with Dr. Robert Kowatch on a project examining emotion dysregulation in children with ADHD and bipolar disorder.

Collaboration with Division of Gastroenterology, Hepatology, & Nutrition
Collaborating Faculty: Denson, LA
Dr. Kevin Hommel has been working with Dr. Lee Denson on several grant-funded projects including NIH, P&G Pharmaceuticals, and Digestive Health Center funded studies. Two of these studies are RCTs using behavioral intervention to improve treatment adherence.

Collaboration with Division of Allergy and Immunology
Collaborating Faculty: Rothenberg, ME
Dr. Kevin Hommel has been working with Dr. Marc Rothenberg from the Division of Allergy and Immunology on a study examining treatment adherence and concomitant behavioral factors in children with eosinophilic gastrointestinal disorders (EGID).

Collaboration with Division of Rheumatology
Collaborating Faculty: Lovell, DJ; Ting, T
Dr. Susmita Kashikar-Zuck has been working with Dr. Daniel Lovell and Dr. Tracy Ting on a grant-funded research collaboration on a multi-site randomized clinical trial of cognitive-behavioral intervention for juvenile fibromyalgia syndrome.

Collaboration with Anesthesia Division
Collaborating Faculty: Goldschneider, KR; Szabova, A
Dr. Susmita Kashikar-Zuck has been working with Dr. Kenneth Goldschneider and Dr. Alex Szabova on a clinical database of pediatric chronic pain patients seen in the multidisciplinary pain clinic.

Collaboration with Division of Pain Management
Collaborating Faculty: Goldschneider, KR; Szabova, A; Harding, K; Paulford-Lecher, N; McKenna, LA; Wolf, D
Dr. Anne Lynch-Jordan has been working with the Division of Pain Management on a project that involves maintaining a clinical database in the Pain Management Clinic. Posters presented at the American Pain Society from this group. Currently working on a manuscript, Development of an adolescent pain behavior questionnaire, from data collected as part of this clinic.

Collaboration with Neurology Division
Collaborating Faculty: Glauser, TA; Morita, DA
Dr. Glauser serves as a mentor on Dr. Avani Modi's K23 award. Dr. Modi collaborates on multiple projects related to clinical outcomes in the New Onset Seizure Disorder clinic with both Drs. Glauser and Morita. Studies are focused on validation of side effects questionnaires, examining quality of life for patients with seizures, and pharmacokinetic modeling of antiepileptic drugs.

Collaboration with Department of Surgery
Collaborating Faculty: Inge, TH
Dr. Avani Modi has been working with Dr. Inge on a U01 grant examining outcomes of adolescent bariatric surgery.

Collaboration with Division of Pulmonary Medicine
Collaborating Faculty: Acton, JD
Dr. Avani Modi has been working with Dr. James Acton on a collaborative study conducted in the area of CF, examining rates of anxiety and depressive symptoms in patients with CF and their caregivers.

Collaboration with Division of Pulmonary Medicine
Collaborating Faculty: Wooldridge, JL
Dr. Avani Modi has been working with Dr. Jamie Wooldridge on a collaborative study conducted in the area of CF, examining the health-related quality of life in children who have experienced pulmonary exacerbations.

Collaboration with Division of Pulmonary Medicine
Collaborating Faculty: Seid, M
Dr. Lisa Opipari-Arrigan has been working with Dr. Michael Seid on a project that involves measuring and improving pediatric healthcare quality, barriers to care, and health-related quality of life for vulnerable children with asthma.

Collaboration with Division of Pulmonary Medicine and Center for Health Care Quality
Collaborating Faculty: Seid, M
Dr. Lisa Opipari-Arrigan has been working with Dr. Michael Seid. The project involves empirically defining and measuring the clinical encounter and determining how the clinical encounter affects adherence and health outcomes for children with cystic fibrosis.

Collaboration with Division of Nephrology
Collaborating Faculty: Goebel, JW
Dr. Ahna Pai has been working with Dr. Jens Goebel on a project examining the allocation of treatment responsibility in patients with kidney transplants.

Collaboration with Division of Nephrology
Collaborating Faculty: Goebel, JW
Dr. Ahna Pai has been working with Dr. Jens Goebel from the Division of Nephrology on a project that involves developing a real time adherence assessment system.

Collaboration with Division of Hematology/Oncology
Collaborating Faculty: Davies, SM
Dr. Ahna Pai has been working with Dr. Davies on a project examining oral medication adherence in children following stem cell transplant.

Collaboration with The Headache Center, Neurology Division
Collaborating Faculty: Hershey, AD; Kabbouche, MA
Dr. Scott Powers has been working with the Headache Center on a range of clinical and translational research studies, ranging from genomics to clinical trials to outcomes research.

Collaboration with Diabetes Center, Division of Endocrinology
Collaborating Faculty: Dolan, LM
Dr. Scott Powers has been collaborating with the Diabetes Center on studies that focus on type 1 diabetes and type 2 diabetes. Most studies involve NIH T32 fellows. A major line of research is a multi-site effort with Dr. Susana Patton at the University of Michigan and focuses on dietary adherence and diabetes outcomes in young children with type 1 diabetes.

Collaboration with Cystic Fibrosis Center, Division of Pulmonary Medicine
Collaborating Faculty: Acton, JD; Wooldridge, JL
Dr. Scott Powers is working with the Cystic Fibrosis Center on clinical and translational research in cystic fibrosis, including clinical trials, studies through the CF Foundation Therapeutics Development Network, and health outcomes research.

Collaboration with Department of Radiology
Collaborating Faculty: Brody, AS
Dr. Scott Powers has been working with the Division of Radiology on studies funded by the CF Foundation examining lung disease in young children with CF via high resolution CT tests as part of a multi-center NIH funded clinical trial focused on improving growth in young children with CF via behavioral and nutrition treatment.

Faculty Members

Lori J. Stark, PhD, Professor; Division Director
Research Interests: Improving health and nutritional outcomes of children with chronic conditions including cystic fibrosis and obesity through behavioral interventions

Robert Ammerman, PhD, Professor; Scientific Director, Every Child Succeeds
Research Interests: Development of early childhood preventive interventions to promote optimal child development and reduce negative behavioral and health outcomes.

Dean Beebe, PhD, Associate Professor Clinical
Research Interests: Investigating the daytime cognitive and behavioral effects of pediatric sleep problems

Kelly Byars, PhD, Associate Professor Clinical
Research Interests: The assessment and treatment of pediatric insomnia and pediatric obstructive sleep apnea.

Sandra Cortina, PhD, Assistant Professor Clinical
Research Interests: Understanding and improving adherence to treatment in pediatric chronic illness

Peggy A. Crawford, PhD, Assistant Professor Clinical
Research Interests: Understanding individual and family factors associated with better outcomes in children with diabetes

Lori Crosby, PsyD, Associate Professor Clinical; Director, O’Grady Residency Program in Psychology
Research Interests: Understanding psychosocial factors as they impact sickle cell disease, adherence, anxiety, adolescents, health disparities

Dennis Drotar, PhD, Professor; Director, Center for the Promotion of Treatment Adherence
Research Interests: Understanding and improving adherence to treatment in pediatric chronic illness

Jeffrey N. Epstein, PhD, Associate Professor; Director, Center for ADHD
Research Interests: Improving health and behavioral outcomes of children with ADHD through development and dissemination of evidence-based treatments

Michelle Ernst, PhD, Assistant Professor Clinical; Director, Consultation Liaison Services
Research Interests: Clinical effectiveness of pediatric psychology interventions within the inpatient pediatric setting.

Kevin Hommel, PhD, Research Assistant Professor
Research Interests: Improving adherence to treatment regimens in pediatric inflammatory bowel disease, eosinophil and associated gastrointestinal disorders

Korey Hood, PhD, Research Assistant Professor
Research Interests: Investigation of the impact of psychological and family factors on type 1 diabetes management and outcomes, the biologic and environmental links between depression and type 1 diabetes

Susmita Kashikar-Zuck, PhD, Associate Professor; Training Director, Psychology Postdoctoral Fellowship Program
Research Interests: Psychosocial issues and behavioral treatment of pediatric chronic pain
Joshua Langberg, PhD, Research Assistant Professor  
**Research Interests:** Development of effective treatments for adolescents with ADHD

Brenna LeJeune, PhD, Assistant Professor Clinical  
**Research Interests:** Understanding neurobehavioral outcomes following pediatric traumatic brain injury, childhood cancers, and their clinical interventions

Richard Loren, PhD, Assistant Professor Clinical  
**Research Interests:** Dissemination of effective treatments for ADHD

Anne Lynch-Jordan, PhD, Assistant Professor Clinical; **Associate Training Director, O’Grady Residency Program in Psychology**  
**Research Interests:** Understanding the role of pain expression and factors contributing to decreased functioning such as school attendance/absences in the pediatric chronic pain population.

Monica J. Mitchell, PhD, Associate Professor  
**Research Interests:** To develop culturally-appropriate, family-based interventions for children with sickle cell disease and children with other pediatric conditions, and to improve health outcomes in children

Avani C. Modi, PhD, Research Assistant Professor  
**Research Interests:** Examining adherence to medical regimens for children with chronic illnesses (e.g., epilepsy, cystic fibrosis) and its impact on health outcomes

Jennie G. Noll, PhD, Associate Professor; **Director, Data Core**  
**Research Interests:** Understanding long-term bio-psycho-social sequelae of childhood abuse

Marsha Nortz, PhD, Assistant Professor Clinical; **Director, Postdoctoral Residency in Pediatric Neuropsychology**  
**Research Interests:** Understanding neurobehavioral outcomes following childhood cancer, pediatric traumatic brain injury, and their clinical interventions

Lisa Opipari-Arrigan, PhD, Adjunct Associate Professor  
**Research Interests:** Improving health outcomes and quality of life for pediatric patients with chronic illnesses

Ahna Pai, PhD, Research Assistant Professor  
**Research Interests:** Understanding and improving adherence to transplant regimens including solid organ, stem cell and bone marrow

Erica Pearl, PsyD, Instructor Clinical  
**Research Interests:** Developing and disseminating evidence-based interventions for children exposed to violence

Carrie Piazza-Waggoner, PhD, Assistant Professor Clinical  
**Research Interests:** Understanding the impact of family functioning and chronic illness outcomes

Scott Powers, PhD, Professor; **Director of Clinical and Translational Research; Director, Center for Child Behavior and Nutrition Research and Training; Co-Director, The Headache Center**  
**Research Interests:** Two primary foci, Child Behavior and Nutrition and Pediatric Pain

Joseph Rausch, PhD, Research Assistant Professor  
**Research Interests:** Elucidating the short- and long-term dynamic interactions between human behavior and health outcomes

Douglas Ris, PhD, Professor; **Director, Neuropsychology Program**  
**Research Interests:** Investigating the neurobehavioral outcomes of children treated for brain tumors and those exposed to lead

Helmut Roehrig, PhD, Assistant Professor Clinical  
**Research Interests:** Pediatric obesity determinants and treatment, adolescent pregnancy after bariatric surgery

Patricia Ryan, PhD, Adjunct Assistant Professor  
**Research Interests:** Understanding radiation late-effects in treatment for pediatric brain tumors

Janet R. Schultz, PhD, Adjunct Associate Professor

Nicolay Walz, PhD, Assistant Professor Clinical  
**Research Interests:** Understanding and improving child and family outcomes following traumatic brain injury

Meg Zeller, PhD, Associate Professor  
**Research Interests:** Psychosocial outcomes of pediatric obesity and adolescent bariatric surgery

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**Joint Appointment Faculty Members**

Richard Ittenbach, PhD, Associate Professor  
Division of Biostatistics and Epidemiology  
**Research Interests:** Measurement of treatment adherence, research bioethics, and mixed methods studies, particularly as they relate to study and design-related issues

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**Clinical Staff Members**

- James Brewer, EdD
- Joanne Carey, PhD
Leadership in Community Engagement on the Successfully Funded CTSA

Our Division, and its marquee community research program, INNOVATIONS in Community Research and Program Evaluation, led by Drs. Monica Mitchell and Lori Crosby, played an instrumental role as a partner in the Community Engagement core in the academic health center-wide efforts towards a successful CTSA application. Going forward, this Core will realize the bidirectional and transformative goal of bringing the community and clinical and translational researchers together to optimize health outcomes across the region and across the nation. Specifically, over the course of the five year program, this grant will achieve several aims, including: (1) developing a Community Partner Council that strengthens community sensitivity and participation in research, particularly in underserved and health disparity populations; (2) ensuring that research translated from the bench to the bedside is implemented in the community; (3) creating a community-wide Institutional Review Board which will make research more feasible and efficient within the community and across institutions; (4) increasing participation in the existing pediatric and the newly created adult physician-based research network; and (5) providing training in community-based participatory research and evidence-based practice for community members, community physicians, and academic health faculty. Through this Core, Dr. Mitchell will promote the development of pilot grants that engage community members around health education, promotion or improvement activities. In addition, the CTSA Community Engagement Core is committed to training students (high school through fellowship) in translational research and the Core’s first three high school students will complete their first round of training and summer research projects in July 2009.

Quality Improvement in Behavioral Health: Innovative programs disseminated in first of their kind publications

Improving clinical outcomes through quality improvement that brings evidence-based care from research to the bedside is a core mission of CCHMC. Clinicians and researchers in the Division of Behavioral Medicine have partnered to make this a reality and have shown themselves to be the leaders in the quality improvement movement within pediatric psychology. Under the leadership of Dr. Anne Lynch-Jordan, the clinicians and researchers who work with children and adolescents referred for treatment of pain effectively designed and implemented a system to define and collect patient outcomes. This effort resulted in the creation of a system for reliable collection of outcomes at 97% of all treatment visits
and demonstrated improvement in functional disability in 67% of the patients seen. The Pain Team is now using this data to refine our treatment procedures to improve outcomes. Dr. Michelle Ernst partnered with the Division of Pulmonary Medicine to improve the delivery of airway clearance therapy (ACT) to adolescents with cystic fibrosis while they are inpatient at CCHMC to the prescribed 4 per day. Using behavioral interventions to motivate youth to partner with their respiratory therapists, the percent of patients receiving ACT 4 times per day increased by 23%. The data from both of these efforts are the first of this kind in the field of pediatric psychology and were recently accepted for publication in a special issue on quality improvement in the Journal of Pediatric Psychology.

Division Publications

13. Hommel KA. Learned helplessness in pediatric juvenile rheumatic disease: an experimental examination in children and adolescents. Saarbrucken, Germany; VDM Verlag


49. Bolling C, Crosby L, Boles R, Stark L. How pediatricians can improve diet and activity for overweight


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Grants, Contracts, and Industry Agreements

<table>
<thead>
<tr>
<th>Grant and Contract Awards</th>
<th>Annual Direct / Project Period Direct</th>
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<tbody>
<tr>
<td><strong>AMMERMAN, R</strong></td>
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<tr>
<td>Increasing Retention in Home Visitation</td>
<td>Health Resources and Services Administration</td>
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<tr>
<td>R40 MC 006632</td>
<td>01/01/06 - 12/31/09</td>
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| **DORTAR, D**             |                                      |
| Self-Management of Type 1 Diabetes During Adolescence | National Institutes of Health |
| R01 DK 069486             | 08/01/07 - 07/31/11                  | $416,614 / $1,705,154 |

| Promoting Treatment Adherence in Adolescent Leukemia | National Institutes of Health |
| R01 CA 119162             | 09/28/07 - 07/31/12                  | $576,555 / $3,006,866 |

| **EPSTEIN, J**            |                                      |
| Response Variability in Children with ADHD | National Institutes of Health |
| R01 MH 074770             | 06/01/06 - 03/31/10                  | $218,475 / $900,000 |

| Disseminating a Model Intervention to Promote Improved ADHD Care in the Community | National Institutes of Health |
| R21 MH 082714             | 06/01/08 - 05/31/10                  | $112,500 / $247,500 |

| Development of a Multifaceted Cognitive Training Program for Children with ADHD | National Institutes of Health |
HOMMEL, K

**Behavioral Treatment of Nonadherence in Pediatric Inflammation**  
National Institutes of Health  
K23 DK 079037  
01/01/08 - 04/30/12  
$119,500 / $119,500

**Digestive Health Center: Bench to Bedside Research in Pediatric Digestive Disease**  
National Institutes of Health  
P30 DK 078392  
06/01/09 - 05/31/09  
$30,000 / $30,000

**Bone Health in Pediatric Crohn Disease**  
National Institutes of Health (Children's Hospital of Philadelphia)  
R01 DK 073946  
08/01/07 - 07/31/11  
$13,497 / $41,525

**Digestive Health Center: Bench to Bedside Research in Pediatric Digestive Disease**  
National Institutes of Health  
P30 DK 078392 (supplement)  
06/01/09 - 05/31/09  
$20,000 / $20,000

HOOD, K

**Depression in Children and Adolescents with Type I Diabetes**  
National Institutes of Health  
K23 DK 073340  
08/01/07 - 07/31/10  
$124,000 / $372,077

**Family Based Psychosocial Intervention for Depressed Youth with Type I Diabetes**  
National Institutes of Health  
R03 DK 081711  
04/01/09 - 03/31/11  
$50,000 / $100,000

KASHIKAR-ZUCK, S

**A Randomized Clinical Trial in Juvenile Fibromyalgia**  
National Institutes of Health  
R01 AR 050028  
07/01/04 - 06/30/09  
$268,158 / $1,630,447

MITCHELL, M

**Sister Circles for Professional African American Women**  
National Institutes of Health (Kent State University)  
R21 MH 076722  
03/01/08 - 02/28/10  
$31,204 / $62,408

**Ameliorating Attention Problems in Children with SCD**  
National Institute of Health (Temple University)  
R21 HD049244  
03/01/08 - 02/28/09  
$17,952 / $17,952

**CTSA - Community Engagement**  
National Institute of Health  
03/01/09 - 02/28/12  
$48,211 / $192,844

**Comprehensive Sickle Cell Center**  
National Institutes of Health  
U54 HL 070871  
07/11/03 - 03/31/12  
$108,644 / $108,644

MODI, A

**Novel Adherence Measurement and Intervention in Children**  
National Institutes of Health  
K23 HD 057333  
02/15/08 - 01/31/13  
$116,432 / $587,293

NOLL, J.

**Preventing Teen Pregnancy: Prepregnancy Psychosocial Mechanisms for At-Risk Females**  
National Institutes of Health  
R01 HD 052533  
03/10/07 - 02/29/12  
$333,884 / $1,697,610

**Preventing Teen Pregnancy: Prepregnancy Psychosocial Mechanisms for At-Risk Females**  
National Institute of Health  
R01 HD 052533 (supplement)  
06/01/09 - 10/31/09  
$5,000 / $5,000

POWERS, S

**Behavioral and Nutrition TX to Help CF Preschoolers Grow**  
National Institutes of Health  
R01 DK 054915  
09/15/05 - 07/31/10  
$423,490 / $2,233,976

**Behavioral Treatment for Dietary Adherence in Children**  
National Institutes of Health  
K24 DK 059973  
07/01/06 - 06/30/11  
$155,885 / $778,316
<table>
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<tr>
<th>Project Title</th>
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<th>Funding Details</th>
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<td>Drug and Non-Drug Treatment of Pediatric Chronic Headache</td>
<td>R01 NS 050536</td>
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<td>Research Training In Child Behavior And Nutrition</td>
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<td>Social Competence with Peers Following Early Childhood Traumatic Brain Injury</td>
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<td>Adolescent Bariatric: Controlled Longitudinal Study of Psychosocial Development</td>
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<td>Intake and Eating Behavior in Adolescents who Undergo Bariatric Surgery</td>
<td>PA-07-24</td>
<td>06/01/08 - 05/31/13</td>
<td>$33,477 / $167,385</td>
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| Total-current-year-direct-expenses                              | $ 4,822,066 |
| Total-total-expenses                                           | $ 4,822,066 |