

Behavioral Medicine and Clinical Psychology

Division Photo



First Row: J. Cyran, E. Pearl, J. Noll, R. Plummer, I. Parkins, L. Stark, R. Kniskern, A. Roddenberry, T. Proano-Raps, S. Cortina; Second Row: L. Crosby, R. Nestheide, W. Lopez, C. Piazza-Waggoner, J. McClure, M. Nortz Gragert, B. Smolyansky; Third Row: J. Rausch, M. Mitchell, S. Powers, B. LeJeune, K. Byars, J. Creedon, A. Lynch-Jordan, W. Hansen; Fourth Row: J. Carey, S. Kashikar-Zuck, L. Merk, R. Loren, A. Moser, K. Hommel, A. Modi, J. Epstein, J. Langberg, S. Chertock, J. Myers, J. Brewer, W. Sirbu; Missing: R. Ammerman, D. Beebe, P. Crawford, D. Drotar, L. Endres, M. Ernst, K. Hood, R. Ittenbach, L. Opipari-Arrigan, A. Pai, D. Ris, H. Roehrig, P. Ryan, J. Schultz, N. Walz, M. Zeller

Division Data Summary

Research and Training Details

Number of Faculty	33
Number of Joint Appointment Faculty	1
Number of Research Fellows	8
Number of Research Students	8
Number of Support Personnel	76
Direct Annual Grant Support	\$4,822,066
Peer Reviewed Publications	88

Clinical Activities and Training

Number of Clinical Staff	18
Number of Clinical Fellows	4
Number of Clinical Students	4
Number of Other Students	39
Inpatient Encounters	4,174
Outpatient Encounters	31,276

Significant Publications

McGrady ME, Laffel L, Drotar D, Repaske D, Hood KK. Depressive symptoms and glycemic control in adolescents with type 1 diabetes: mediational role of blood glucose monitoring. *Diabetes Care*. 2009 May;32(5):804-6.

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.

Hommel KA, Davis CM, Baldassano RN. Objective versus subjective assessment of oral medication adherence in pediatric inflammatory bowel disease. *Inflamm Bowel Dis.* 2009 Apr;15(4):589-93.

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.

Drotar D. Ethics of treatment and intervention research with children and adolescents with behavioral and mental disorders: Recommendations for a future research agenda. *Ethics and Behavior.* 2008;18:307-13.

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.

Noll JG, Shenk CE, Barnes JE, Putnam FW. Childhood abuse, avatar choices, and other risk factors associated with internet-initiated victimization of adolescent girls. *Pediatrics.* 2009 Jun;123(6):e1078-83.

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.

Beebe DW, Difrancesco MW, Tlustos SJ, McNally KA, Holland SK. Preliminary fMRI findings in experimentally sleep-restricted adolescents engaged in a working memory task. *Behav Brain Funct.* 2009;5:9.

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.

Ammerman RT, Putnam FW, Altaye M, Chen L, Holleb LJ, Stevens J, et al. Changes in depressive symptoms in first time mothers in home visitation. *Child Abuse Negl.* 2009 Mar;33(3):127-38.

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 DeFrancesco, 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: Kercksmar, CM

Dr. Dennis Drotar has been working with Dr. Carolyn Kercksmar 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; Cassedy, A**

Dr. Dennis Drotar has been working with Drs. Ittenbach and Cassedy 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 Opiari-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 Opiari-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 Opirari-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

Joint Appointment Faculty Members

Richard Ittenbach, PhD, Associate Professor

Division of Biostatistics and Epidemiology

Measurement of treatment adherence, research bioethics, and mixed methods studies, particularly as they relate to study and design-related issues

Clinical Staff Members

- **James Brewer, EdD**
- **Joanne Carey, PhD**

- Sanford Chertock, PhD
- Jennifer Creedeon, PhD
- Jessica Cyran, PhD
- Linda Endres, PhD
- William Hansen, PhD
- Wendi Lopez, PsyD
- Jessica McClure, PsyD
- Lynne Merk, PhD
- Ann Moser, PhD
- James Myers, PhD
- Robert Nestheide, PhD
- Irina Parkins, PhD
- Tara Proano-Raps, PsyD
- Angela Roddenberry, PhD
- William Sirbu, PhD
- Beverly Smolyansky, PhD

Trainees

- Stacy Flowers, PhD, PL-1, Spaulding University, Louisville, Kentucky
- Michele Herzer, PhD, PL-1, Rosalind Franklin University, North Chicago, Illinois
- Lisa Ingerski, PhD, PL-1, University of Florida, Gainesville, Florida
- Natalie Kelly, PhD, PL-1, IUPUI, Indianapolis, Indiana
- Jennifer Potter, PhD, PL-2, University of Cincinnati
- Megan Ratcliff, PhD, PL-1, University of Georgia, Athens, Georgia
- Paul Rosen, PhD, PL-1, University of Kentucky, Lexington, Kentucky
- Chad Shenk, PhD, PL-2, University of Nevada-Reno
- Shalonda Slater, PhD, PL-2, University of Florida
- Stephanie Spear, PhD, PL-2, University of Nevada-Reno
- Jessica Valenzuela, PhD, PL-2, University of Miami
- Laura Williams, PhD, PL-2, University of Florida

Significant Accomplishments

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

1. Ammerman RT, Putnam FW, Margolis PA, Van Ginkel JB. ["Quality improvement in child abuse prevention programs."](#) *Preventing child maltreatment: community approaches*. New York: Guilford; 2009: 121-138.
2. Beebe DW, Difrancesco MW, Tlustos SJ, McNally KA, Holland SK. [Preliminary fMRI findings in experimentally sleep-restricted adolescents engaged in a working memory task](#) . *Behav Brain Funct*. 2009; 5: 9.
3. Epstein J. ["A pathophysiology of attention deficit/hyperactivity disorder: clues from neuroimaging."](#) *Neuroimaging in developmental clinical neuroscience*. Cambridge, UK ; New York : Cambridge University Press; 2009: 113-129.
4. Frank DA, Blenner S, Wilbur MAB, Black MM, Drotar D. ["Failure to thrive."](#) *Child abuse medical diagnosis and management*. Elk Grove, IL: American Academy of Pediatrics; 2009: 465-512.
5. Hershey AD, Powers SW, Winner P, Kabbouche MA. [Pediatric headaches in clinical practice](#) . Chichester, UK ; Hoboken, NJ; Wiley-Blackwell
6. Langberg JM, Epstein JN. ["Failing out of school: language and reading weaknesses: psychotherapeutic perspective."](#) *DSM-IV-TR casebook and treatment guide for child mental health*. Washington, DC: American Psychiatric Publishing; 2009: 307-309.
7. Pai AL, Drotar D. ["Medication adherence in pediatric oncology."](#) *Quick reference for oncology clinicians: the psychiatric and psychological dimensions of cancer symptom management*. Charlottesville, Virginia: IPOS Press; 2009: 90-96.
8. Powers SW, Ernst MM, Hershey AD. ["Biofeedback for childhood migraine."](#) *Current management in child neurology*. Hamilton, ON: B.C. Decker; 2009: 83-86.
9. Quittner AL, Cruz I, Modi A, Marciel KK. ["Measuring adolescent quality of life ."](#) *Behavioral approaches to chronic disease in adolescence: a guide to integrative care*. New York: Springer; 2009: 311-327.
10. Shemesh E, Drotar D. ["Treatment adherence."](#) *Clinical manual of pediatric psychosomatic medicine*. Arlington, VA: American Psychiatric Publishing; 2009: 465-512.
11. Wright JP, Boisvert D, Dietrich KN, Ris MD. ["The ghost in the machine and criminal behavior: criminology for the 21st Century."](#) *Biosocial criminology: new directions in theory and research*. New York: Routledge; 2009: 73-89.
12. Hack M, Taylor HG, Schluchter M, Andreias L, Drotar D, Klein N. [Behavioral outcomes of extremely low birth weight children at age 8 years](#) . *J Dev Behav Pediatr*. 2009; 30: 122-30.
13. Hommel KA. [Learned helplessness in pediatric juvenile rheumatic disease: an experimental examination in children and adolescents](#) . Saarbrücken, Germany; VDM Verlag
14. Hommel KA, Davis CM, Baldassano RN. [Objective versus subjective assessment of oral medication adherence in pediatric inflammatory bowel disease](#) . *Inflamm Bowel Dis*. 2009; 15: 589-93.
15. Hood KK. [The influence of caregiver depressive symptoms on proxy report of youth depressive symptoms: a test of the depression-distortion hypothesis in pediatric type 1 diabetes](#) . *J Pediatr Psychol*. 2009; 34: 294-303.
16. Langberg JM, Brinkman WB, Lichtenstein PK, Epstein JN. [Interventions to promote the evidence-based care of children with ADHD in primary-care settings](#) . *Expert Rev Neurother*. 2009; 9: 477-87.
17. Marino BS, Tomlinson RS, Drotar D, Claybon ES, Aguirre A, Ittenbach R, Welkom JS, Helfaer MA, Wernovsky G, Shea JA. [Quality-of-life concerns differ among patients, parents, and medical providers in children and adolescents with congenital and acquired heart disease](#) . *Pediatrics*. 2009; 123: e708-15.
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Grants, Contracts, and Industry Agreements

Grant and Contract Awards

Annual Direct / Project Period Direct

AMMERMAN, R

Increasing Retention in Home Visitation

Health Resources and Services Administration

R40 MC 006632 01/01/06 - 12/31/09 \$169,978 / \$680,359

DROTAR, 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

R21 MH 085842	04/01/09 - 03/31/11	\$149,734 / \$273,875
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

Drug and Non-Drug Treatment of Pediatric Chronic Headache

National Institutes of Health

R01 NS 050536

07/01/06 - 06/30/10

\$321,937 / \$1,277,481

Research Training In Child Behavior And Nutrition

National Institutes of Health

T32 DK 063929

07/01/08 - 06/30/13

\$212,736 / \$1,221,322

STARK, L**Behavioral Treatment and Nutrition In Pediatric Chronic Disease**

National Institutes of Health

K24 DK 059492

09/26/06 - 08/31/11

\$164,152 / \$822,904

WALZ, N**Social Development Following Preschool Brain Injury**

National Institutes of Health

K23 HD 046690

01/01/05 - 12/31/09

\$111,507 / \$533,061

Social Competence with Peers Following Early Childhood Traumatic Brain Injury

National Institutes of Health

R03 HD 055218

08/01/08 - 06/30/10

\$50,000 / \$100,000

ZELLER, M**Adolescent Bariatric: Controlled Longitudinal Study of Psychosocial Development**

National Institutes of Health

R01 DK 080020

03/01/08 - 02/28/13

\$418,544 / \$2,126,379

Intake and Eating Behavior in Adolescents who Undergo Bariatric Surgery

National Institute of Health (University of Pennsylvania)

PA-07-24

06/01/08 - 05/31/13

\$33,477 / \$167,385

Current Year Direct**\$ 4,822,066**

Total \$4,822,066
