

# Division of Behavioral Medicine & Clinical Psychology

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DIVISION PROFILE	
Number of Faculty	29
Number of Staff Physicians	13
Number of Fellows	
Clinical Fellows	18
Number of Graduate Students	3
Number of Other Students (full and part-time)	3
Number of Support Personnel	63
Annual Total Grant Support (direct)	\$3,715,593
Number of Peer Reviewed Publications	34
Patient Encounters	
Outpatient	24,921
Inpatient	2,688

## FACULTY LISTING

Lori J. Stark,, PhD, ABPP, Professor of Pediatrics, Division Director  
 Robert Ammerman, PhD, ABPP, Professor of Pediatrics, Director, Evaluation and Outcomes of Every Child Succeeds  
 Dean Beebe, PhD, ABNP, Assistant Professor  
 Kathleen Burklow, PhD, Associate Professor  
 Kelly Byars, PsyD, Assistant Professor  
 Lori Crosby, PsyD, Assistant Professor  
 Jeff Epstein, PhD, Associate Professor, Director, ADHD Program  
 Michelle Ernst, PhD, Assistant Professor, Director, Consultation Liaison Program  
 Melisa Foti-Hoff, PsyD, Adjunct Assistant Professor  
 Susmita Kashikar-Zuck, PhD, Associate Professor  
 Anne Kinsman, PhD, Assistant Professor  
 Kimberly Kroeger-Geoppinger, PsyD, Assistant Professor  
 Anne Lynch, PhD, Assistant Professor  
 Melissa Matson, PhD, Assistant Professor  
 Kelly McGraw, PsyD, Assistant Professor  
 Lisa Mills, PhD, Associate Professor  
 Monica Mitchell, PhD, Assistant Professor  
 Jennie Noll, PhD, Research Associate Professor  
 Marsha Nortz, PhD, Assistant Professor  
 Erica Pearl Smith, PsyD, Instructor  
 Scott Powers, PhD, ABPP, Professor of Pediatrics, Director, Postdoctoral Training in Psychology Program  
 M. Douglas Ris, PhD, ABPP/NP, Professor of Pediatrics, Director, Neuropsychology Program  
 Helmut Roehrig, PhD, Assistant Professor  
 Patricia Ryan, PhD, Field Service Associate Professor  
 Brian Saelens, PhD, Assistant Professor  
 Janet R. Schultz, PhD, Adjunct Associate Professor  
 Rena Sorensen-Burnworth, PhD, Assistant Professor  
 Nicolay Walz, PhD, Assistant Professor  
 Margaret Zeller, PhD, Assistant Professor

## STAFF PHYSICIAN LISTING

Beverly Smolyansky, PhD, Clinical Director  
James Brewer, EdD  
Sanford Chertock, PhD  
Linda Endres, PhD  
Rebecca Kniskern, PhD  
Jessica McClure, PsyD  
Bonnie McIntosh, PhD  
F. Lynne Merk, PhD  
Ann Moser, PhD  
James Myers, PhD  
Robert Nestheide, PhD  
Tara Proano-Raps, PsyD  
William Sirbu, PhD, Satellite Coordinator

## OVERVIEW

The Division of Behavioral Medicine and Clinical Psychology is dedicated to advancing child health and health care through the discovery and implementation of empirically supported treatments that address the relationship between children's cognitive, social, emotional, and behavioral functioning and their physical well-being. The teaching mission of the division focuses on training the next generation of practitioners and clinical researchers across the disciplines of psychology and pediatrics. In addition to having nationally recognized residency and postdoctoral fellowship programs, including an NIH/NIDDK funded fellowship in Child Behavior and Nutrition, the psychology faculty are actively involved in the postdoctoral fellowship programs in Nutrition and Gastroenterology and Rheumatology. The division also provides an elective rotation for primary care residents in behavioral health. While the clinical focus of the division is on children with acute and chronic illness, we are able to provide a wide variety of behavioral health services to the Cincinnati Community through our satellite locations. Divisional research includes translational and clinical trial projects and involves leadership on a number of multidisciplinary research teams. Studies funded by the NIH and other sources are focused in the areas of behavioral medicine with an emphasis on promotion of positive health behaviors and behavioral treatment of chronic or acute medical conditions; neuropsychology with an emphasis on medical conditions affecting neurobehavioral functioning; and risk and prevention with an emphasis on understanding and improving behavioral and health outcomes associated with high risk behaviors and environments and attention deficit disorder.

## HIGHLIGHTS

Our commitment to excellent clinical service was highlighted this year through our Process Excellence initiative. Under Process Excellence, leaders were chosen from all areas of the division involved in patient care including academic and staff psychologists at base and satellites, customer service representatives, billing coordinators, and intake personnel to learn and apply quality improvement methods to improve delivery of care in the division. Our accomplishments include streamlining the number of ways a referral can come into the division from 19 to 5, thus eliminating unnecessary delays in processing referrals. We also have been perfecting an open access system to improve ease and speed of scheduling a patient with a psychologist or for psychological testing. Through this initiative the number of days between referral and testing dropped from 29 to 18 days and 46% of patients received testing within 14 days of it being ordered. Patient satisfaction with our services also increased over the year as the number of families who gave the division a top rating of a 10 increased from 64% in the 4th quarter of FY 2005 to 71% by 3rd quarter of FY 06.

We have continued to expand our initiatives in ADHD and inpatient consultation liaison. Dr. Jeff Epstein, a recognized leader in ADHD research, joined the division in December 2005. In addition to assuming the leadership of the ADHD Collaborative, he has brought a significant research expertise in ADHD to CCHMC. Dr. Epstein transferred an R01 and K24 Mid-Career Investigator Award in Patient-Oriented Research on neuroanatomical deficits in ADHD patients and their families, and a subcontract on the Multimodal Treatment of ADHD (MTA) study, the largest, multi-site, clinical trial of treatments for ADHD. In addition, Dr. Epstein received a new R01 to examine response variability of children with ADHD to medication. Dr. Epstein has

already formed mentoring relationships with junior faculty across several divisions. Our inpatient consultation liaison program continues to thrive under the leadership of Dr. Michelle Ernst. A second faculty, Dr. Carrie Piazza-Waggoner, was recruited to allow this program to continue to expand to medical services and floors.

The division continued to excel in obtaining federal funding across our research areas. In addition to Dr. Epstein's R01 in ADHD, Dr. Scott Powers received an R01 to examine behavioral and medication interventions for pediatric headache, and a competitive renewal of his K24 Mid-Career Investigator Award in Patient-Oriented Research Award, "Behavioral Treatment of Dietary Adherence in Children". Dr. Robert Ammerman received two grants: an R40 from Maternal and Child Health Bureau to examine the efficacy of motivational interviewing to improve outcomes for mothers and children in the Every Child Succeeds home visitation program and an R34 from NIMH to examine treatment of depression for "at risk", first time mothers receiving home visitation.

Finally, our residency and postdoctoral training programs continue to excel, as we have successfully recruited our top applicants for the O'Grady Residency Program in Pediatric Psychology and continue to place our graduating residents in top postdoctoral programs including the T32 fellowship at CCHMC and fellowship programs at CHOP.



*Left to Right: J. Noll, R. Ammerman, L. Stark, J. McClure, B. Smolyansky, S. Powers (2nd row) M. Ernst, M. Zeller, L. Endres, M. Nortz, J. Brewer, W. Sirbu (3rd row) J. Epstein, B. Saelens, S. Kashikar-Zuck, T. Proano-Raps, L. Crosby, R. Nestheide (4th row) D. Beebe, D. Ris, A. Moser, M. Mitchell, A. Lynch, L. Merk, S. Chertock*

## TRAINING

Richard Abbey, PhD  
Nicole Bing, PsyD

Gloria Carpenter, PhD  
Kimberly Driscoll, PhD  
Ivy Ho, PhD  
Kimberly Kroeger-Geoppinger, PsyD

Ryan J. Macks, PhD  
Avani C. Modi, PhD  
Thaddeus J. Nestheide, PsyD

University of Oklahoma Health Sciences Center  
Kennedy Krieger Institute, Johns Hopkins  
University School of Medicine  
Cincinnati Children's Hospital  
Children's Hospitals & Clinics Minneapolis  
University of Florida Sciences Center  
Kennedy Krieger Institute, Johns Hopkins  
University School of Medicine  
The Help Group  
Cincinnati Children's Hospital  
Kennedy Krieger Institute, Johns Hopkins  
University School of Medicine

Justina Padgett, PhD	Veteran Affairs Medical Center of Northampton Massachusetts
Erica Pearl, PsyD	University of California, Davis Children's Hospital
Jannel Phillips, PhD	University of Florida
Carrie Piazza-Waggoner, PhD	Cincinnati Children's Hospital
Myling Sumanti, PhD	Children's Hospital of Michigan
Kelly Bryce van Schaick, PhD	Mailman Center for Child Development

#### O'GRADY RESIDENTS IN PSYCHOLOGY

Chanelle Bishop	LaSalle University
Richard Boles	University of Kansas
Heather Jones	University of Maryland

## GRANTS, CONTRACTS AND INDUSTRY AGREEMENTS

Grant and Contract Awards	Annual Direct/Project Period Direct
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<b>Ammerman, R</b>		
Increasing Retention in Home Visitation		
Health Resources & Services Administration		
R40 MC 006632	01/01/06 – 12/31/09	\$171,537/\$680,359
Treatment of Depression of Mothers in Home Visitation		
National Institutes of Health		
R34 MH 073867	06/01/06 – 05/31/09	\$135,000/\$405,000
<b>Beebe, D</b>		
OSA in Obese Teens and Preteens: Neurobehavioral Effects		
National Institutes of Health		
K23 HL 075369	01/05/04 – 12/31/08	\$109,636/\$544,166
<b>Epstein, J</b>		
Response Variability in Children with ADHD		
National Institutes of Health		
R01 MH 074770	06/01/06 – 03/31/10	\$225,000/\$900,000
Functional Neuroanatomical Deficits in ADHD Families		
National Institutes of Health (Duke University subcontract)		
R01 MH 064179	12/01/05 – 04/30/06	\$34,197
Multimodal Treatment Study of Children with ADHD		
National Institutes of Health (Duke University subcontract)		
N01 MC 012012	02/01/06 – 01/31/07	\$17,532
<b>Kashikar-Zuck, S</b>		
A Randomized Clinical Trial in Juvenile Fibromyalgia		
National Institutes of Health		
R01 AR 050028	07/01/04 – 06/30/09	\$337,930/\$1,630,447
<b>Mills, L</b>		
Teen Mothers, Sexual Trauma, and Rapid Repeat Pregnancies		
National Institutes of Health		
K01 HD 042281	06/01/02 – 05/31/07	\$100,890/\$482,979
<b>Mitchell, M</b>		
Depression and Nutrition in Pediatric Sickle Cell Disease		
National Institutes of Health		
K01 MH 064078	03/10/02 – 02/28/07	\$114,697/\$560,827

Noll, J		
Offspring of Maltreated Mothers: Prenatal and Infant Health National Institutes of Health K01 HD 041402	09/01/03 – 02/28/07	\$96,828/\$344,492
Cortisol Activity and Sexual Abuse: Effects Across Development National Institutes of Health R03 HD 045346	12/05/04 – 11/30/06	\$48,825/\$98,825
Powers, S		
Behavioral & Nutrition TX to Help CF Preschoolers to Grow National Institutes of Health R01 DK 054915	09/15/05 – 07/31/10	\$452,950/\$2,233,976
HRCT & Growth in Preschoolers Receiving Behavioral TX Cystic Fibrosis Foundation POWERS05A0	07/01/05 – 06/30/08	\$124,638/\$375,602
Behavioral Treatment for Dietary Adherence in Children National Institutes of Health K24 DK 059973	08/15/01 – 06/30/06	\$87,987/\$422,115
Research Training in Child Behavior and Nutrition National Institutes of Health T32 DK 063929	07/01/03 – 06/30/08	\$207,092/\$866,040
Ris, M		
Neurobehavioral Late Effects in Pediatric Brain Tumors National Institutes of Health R01 CA 112182	3/22/05 – 02/28/10	\$337,200/\$1,751,622
Study of Prevalent Neurotoxicants in Children – Neuro Core National Institutes of Health (Subproject) P01 ES 011261	09/30/01 – 09/29/06	\$50,299/198,408
Study of Prevalent Neurotoxicants in Children - Project 4 Environmental Protection Agency (Subproject) R82938901-0	11/01/01 – 10/31/06	\$141,463/648,094
Saelens, B		
Child Weight Status and Neighborhood Activity and Nutrition Environment National Institutes of Health R01 ES 014240	09/06/05 – 07/31/10	\$435,180/\$2,159,765
Body Fat and Hormones in Adolescent Obesity Treatment National Institutes of Health K23 DK 060476	04/01/02 – 03/31/07	\$106,031/\$508,232
Stark, L		
Behavior Treatment and Nutrition in Pediatric Chronic Diseases National Institutes of Health K24 DK 059492	07/01/01 – 06/30/06	\$122,526/\$610,694
Walz, N		
Social Development Following Preschool Brain Injury National Institutes of Health K23 HD 046690	01/01/05 – 12/31/09	\$104,166/\$533,061

Zeller, M		
Bariatric Surgery in Adolescence: Psychosocial Outcomes National Institutes of Health R03 DK 070889	07/01/05 – 06/30/07	\$50,000/\$100,000
Exploring Barriers to Treatment: Pediatric Obesity National Institutes of Health K23 DK 060031	09/01/01 – 08/31/06	\$103,989/\$498,596
Current Year Direct		\$3,715,593

### Industry Contracts

Current Year Direct Receipts	\$0
<b>TOTAL</b>	<b>\$3,715,593</b>

## PUBLICATIONS

1. Beebe DW. Neurobehavioral effects of obstructive sleep apnea: an overview and heuristic model. *Curr Opin Pulm Med* 2005;11(6):494-500.
2. Beebe DW, Ris MD, Armstrong FD, Fontanesi J, Mulhern R, Holmes E, Wisoff JH. Cognitive and adaptive outcome in low-grade pediatric cerebellar astrocytomas: evidence of diminished cognitive and adaptive functioning in National Collaborative Research Studies (CCG 9891/POG 9130). *J Clin Oncol* 2005;23(22):5198-204.
3. Blunden SL, Beebe DW. The contribution of intermittent hypoxia, sleep debt and sleep disruption to daytime performance deficits in children: consideration of respiratory and non-respiratory sleep disorders. *Sleep Med Rev* 2006;10(2):109-18.
4. Epstein JN, Conners CK, Hervey AS, Tonev ST, Arnold LE, Abikoff HB, Elliott G, Greenhill LL, Hechtman L, Hoagwood K, Hinshaw SP, Hoza B, Jensen PS, March JS, Newcorn JH, Pelham WE, Severe JB, Swanson JM, Wells K, Vitiello B, Wigal T. Assessing medication effects in the MTA study using neuropsychological outcomes. *J Child Psychol Psychiatry* 2006;47(5):446-56.
5. Epstein JN, Kollins SH. Psychometric properties of an adult ADHD diagnostic interview. *J Atten Disord* 2006;9(3):504-14.
6. Hervey AS, Epstein JN, Curry JF, Tonev S, Eugene Arnold L, Keith Conners C, Hinshaw SP, Swanson JM, Hechtman L. Reaction time distribution analysis of neuropsychological performance in an ADHD sample. *Child Neuropsychol* 2006;12(2):125-40.
7. Kashikar-Zuck S. Treatment of children with unexplained chronic pain. *Lancet* 2006;367(9508):380-2.
8. Kashikar-Zuck S, Swain NF, Jones BA, Graham TB. Efficacy of cognitive-behavioral intervention for juvenile primary fibromyalgia syndrome. *J Rheumatol* 2005;32(8):1594-602.
9. Swain NF, Kashikar-Zuck S, Brent Graham T, Prahalad S. Tender point assessment in juvenile primary fibromyalgia syndrome. *Arthritis Rheum* 2005;53(5):785-7.
10. Lynch AM, Kashikar-Zuck S, Goldschneider KR, Jones BA. Psychosocial risks for disability in children with chronic back pain. *J Pain* 2006;7(4):244-51.
11. Short MB, Mills L, Majkowski JM, Stanberry LR, Rosenthal SL. Adolescent girls' access associated with knowledge and access to topical microbicides. *J Women's Health* 2005;13(10):1127-1136.
12. Modi A, Quittner AL. Utilizing computerized phone diary procedures to assess health behaviors in family and social contexts. *Child Health Care* 2006;35(1):29-45.
13. Quittner AL, Buu A, Messer MA, Modi AC, Watrous M. Development and validation of The Cystic Fibrosis Questionnaire in the United States: a health-related quality-of-life measure for cystic fibrosis. *Chest* 2005;128(4):2347-54.

14. Negrao C, 2nd, Bonanno GA, Noll JG, Putnam FW, Trickett PK. Shame, humiliation, and childhood sexual abuse: distinct contributions and emotional coherence. *Child Maltreat* 2005;10(4):350-63.
15. Noll JG, Trickett PK, Susman EJ, Putnam FW. Sleep disturbances and childhood sexual abuse. *J Pediatr Psychol* 2006;31(5):469-80.
16. Piazza-Waggoner C, Adams CD, Cottrell L, Taylor BK, Wilson NW, Hogan MB. Child and caregiver psychosocial functioning in pediatric immunodeficiency disorders. *Ann Allergy Asthma Immunol* 2006;96(2):298-303.
17. Hershey AD, Winner P, Kabbouche MA, Gladstein J, Yonker M, Lewis D, Pearlman E, Linder SL, Rothner AD, Powers SW. Use of the ICHD-II criteria in the diagnosis of pediatric migraine. *Headache* 2005;45(10):1288-97.
18. Kabbouche MA, Powers SW, Vockell AL, LeCates SL, Ellinor PL, Segers A, Manning P, Burdine D, Hershey AD. Outcome of a multidisciplinary approach to pediatric migraine at 1, 2, and 5 years. *Headache* 2005;45(10):1298-303.
19. Powers SW, Jones JS, Ferguson KS, Piazza-Waggoner C, Daines C, Acton JD. Randomized clinical trial of behavioral and nutrition treatment to improve energy intake and growth in toddlers and preschoolers with cystic fibrosis. *Pediatrics* 2005;116(6):1442-50.
20. Powers SW, Mitchell MJ, Patton SR, Byars KC, Jelalian E, Mulvihill MM, Hovell MF, Stark LJ. Mealtime behaviors in families of infants and toddlers with cystic fibrosis. *J Cyst Fibros* 2005;4(3):175-82.
21. Frank LD, Sallis JF, Conway TL, Chapman JE, Saelens BE, Bachman W. Multiple pathways from land use to health. *J Am Plan Assoc* 2005;72(1):75-87.
22. Hayden-Wade HA, Stein RI, Ghaderi A, Saelens BE, Zabinski MF, Wilfley DE. Prevalence, characteristics, and correlates of teasing experiences among overweight children vs. non-overweight peers. *Obes Res* 2005;13(8):1381-92.
23. Kerr J, Rosenberg D, Sallis JF, Saelens BE, Frank LD, Conway TL. Active commuting to school: Associations with environment and parental concerns. *Med Sci Sports Exerc* 2006;38(4):787-94.
24. Saelens BE, Couch SC, Wosje K, Stark L, Daniels SR. Relations among milk and non-milk beverage consumption, calcium, and relative weight in high weight status children. *J Clin Psychol Med Settings* 2006;13(2):117-125.
25. Saelens BE, Frank LD, Auffrey C, Whitaker RC, Burdette HL, Colabianchi N. Measuring physical environments of parks and playgrounds: EAPRS instrument development and inter-rater reliability. *J Phys Act Health* 2006;3(Suppl 1):S190-S207.
26. Stark LJ, Davis AM, Janicke DM, Mackner LM, Hommel KA, Bean JA, Lovell D, Heubi JE, Kalkwarf HJ. A randomized clinical trial of dietary calcium to improve bone accretion in children with juvenile rheumatoid arthritis. *J Pediatr* 2006;148(4):501-7.
27. Stark LJ, Janicke DM, McGrath AM, Mackner LM, Hommel KA, Lovell D. Prevention of osteoporosis: a randomized clinical trial to increase calcium intake in children with juvenile rheumatoid arthritis. *J Pediatr Psychol* 2005;30(5):377-86.
28. Stark LJ, Powers SW. Behavioral aspects of nutrition in children with cystic fibrosis. *Curr Opin Pulm Med* 2005;11(6):539-42.
29. Walz NC, Beebe D, Byars K. Sleep in individuals with Angelman syndrome: parent perceptions of patterns and problems. *Am J Ment Retard* 2005;110(4):243-52.
30. Inge TH, Zeller MH, Lawson ML, Daniels SR. A critical appraisal of evidence supporting a bariatric surgical approach to weight management for adolescents. *J Pediatr* 2005;147(1):10-9.
31. Kahn JA, Degen SJ, Mansour ME, Goodman E, Zeller MH, Laor T, Lanphear NE, Boat TF. Pediatric faculty members' attitudes about part-time faculty positions and policies to support part-time faculty: a study at one medical center. *Acad Med* 2005;80(10):931-9.
32. Kolotkin RL, Zeller M, Modi AC, Samsa GP, Quinlan NP, Yanovski JA, Bell SK, Maahs DM, de Serna DG, Roehrig HR. Assessing weight-related quality of life in adolescents. *Obesity (Silver Spring)* 2006;14(3):448-57.

33. Zeller MH, Modi AC. Predictors of health-related quality of life in obese youth. *Obesity (Silver Spring)* 2006;14(1):122-30.
34. Zeller MH, Roehrig HR, Modi AC, Daniels SR, Inge TH. Health-related quality of life and depressive symptoms in adolescents with extreme obesity presenting for bariatric surgery. *Pediatrics* 2006;117(4):1155-61.