

2013 Research Annual Report

Developmental and Behavioral Pediatrics



Division Details

Division Data Summary

RESEARCH AND TRAINING DETAILS

Number of Faculty	26
Number of Research Fellows	3
Number of Support Personnel	140
Direct Annual Grant Support	\$1,715,747
Peer Reviewed Publications	29

CLINICAL ACTIVITIES AND TRAINING

Number of Clinical Staff	21
Number of Clinical Fellows	5
Number of Other Students	45
Outpatient Encounters	22,835

Division Photo



Row 1: K Kroeger-Geoppinger, K Mason
Row 2: P Logan, T Froehlich, P Manning-Courtney, I Riddle
Row 3: A Esbensen, J Anixt

Significant Accomplishments

Autism Treatment Network Successes

The Kelly O'Leary Center for Autism Spectrum Disorders (TKOC) is entering its sixth year of funding as a member of the Autism Speaks - Autism Treatment Network (AS-ATN). TKOC remains the leading enrollment site for the 17-site network, enrolling a total of 565 patients into the national AS-ATN registry, consisting of 6,380 patients. TKOC was also a contributing site to a novel ASD biorespository study, funded by NIMH and Autism Speaks, collecting blood and urine on 152 children with ASD and their parents. The AS-ATN published a supplement to *Pediatrics* this year, focusing on improving health care for children with ASD and other neurodevelopmental disorders. With support from the AS-ATN, TKOC provided training to over 1,600 ASD providers and family members in FY 2013.

Innovative Developmental-Behavioral Pediatric Research Network

Our Division is one of 12 sites in the Developmental-Behavioral Pediatrics research network, funded by the Maternal and Child Health Bureau. As one of the largest sites in the network, our division has participated in work that has guided key research agendas in the field of developmental-behavioral pediatrics, identified the clinical practice variability within the field, and guided our understanding of using electronic health records to answer clinical research questions within the field of developmental and behavioral pediatrics.

New Advances in ADHD

Froehlich's research, funded by her NIH K23 award, has contributed substantially to the understanding of ADHD. She elucidated the effects of dopamine gene variants on methylphenidate response in children with ADHD. She collaborated on the development of a novel genotyping assay for carboxylesterase 1 (CES1), the enzyme which metabolizes methylphenidate, and is currently evaluating the effects of this genetic variant on methylphenidate response. In addition to her work on identifying predictors of ADHD medication response, she has contributed to our knowledge about the impact of toxic exposures on ADHD-related behaviors (e.g., lead and in-utero tobacco exposure), and is currently co-investigator on an NIH R01 grant which aims to determine the effects of pyrethroid pesticide exposure on ADHD symptoms and executive functioning. Froehlich has also examined national datasets to further understanding of ADHD prevalence, including how socio-demographic disparities (such as poverty, insurance status and race) impact rates of ADHD and its pharmacotherapy.

Research Highlights

Ryan Adams, PhD

Dr. Ryan Adams, Assistant Professor of Pediatrics, has developed an anti-bullying curriculum for girls, with support from Proctor and Gamble and the Secret brand. The web-based curriculum, designed for students, teachers and parents, was tested on 251 girls from three local high schools, with a 5% decrease in the experience of bullying overall, and an 11% decrease for girls experiencing the highest level of bullying at baseline. Adams was supported by the "Secret Mean Stinks" campaign, and the curriculum, known as "[The Girls Guide to Bullying](#)", is available free on-line. "Secret Mean Stinks" will be implementing national dissemination of this important work.

Significant Publications

Adams RE, Cantin S. **Self-Disclosure in Friendships as the Moderator of the Association Between Peer Victimization and Depressive Symptoms in Overweight Adolescents.** *Journal of Early Adolescence*. 2013 April;33(3):341-62.

This study examined the protective effects against bullying and depression from friendships for overweight teens. Best friend self-disclosure made it less likely that the obese adolescents' self-esteem for their physical appearance was affected by peer victimization and protecting self-esteem, in turn, made it less likely that depressive symptoms increased as a result of being victimized. This study identified potential protective factors of friendship in teens who are at risk of being targets of bullying.

Coury DL, Anagnostou E, **Manning-Courtney P**, Reynolds, A, Cole, L, McCoy R, et al. **Use of psychotropic medication in children and adolescents with autism spectrum disorders.** *Pediatrics*. 2012 Nov;130 Suppl 2:S69-76.

This paper described rates of psychotropic medication use in one of the largest and well characterized samples of children and adolescents with autism spectrum disorder. Data from the Autism Treatment Network on over 2800 children provided knowledge about psychotropic medication use and the association with specific of psychiatric co-morbidities as well as family and child demographic characteristics. Disparate care was noted for some children based on type of insurance type, race, and age.

Ehrhardt J, Huntington N, Molino J, Barbaresi W. **Special education and later academic achievement.** *J Dev Behav Pediatr*. 2013 Feb;32(2)111-9.

This paper adds to this body of literature by showing that, in a large, nationally representative sample, the timing of entry to special education services impacts reading achievement in children with reading disorders. Early, evidence-based intervention has been shown to be effective in remediating reading disabilities. For children with reading disabilities, earlier entry to special education (by first grade as compared with second or third grade services) was associated with larger gains in reading achievement between first and fifth grade. As children with learning disabilities, including reading disorders, comprise the largest proportion of US children enrolled in special education services, this work is important in understanding factors which are linked to improved outcomes.

Huerta M, Bishop SL, **Duncan A**, Hus V Lord C. **Application of DSM-5 criteria for autism spectrum disorder to three samples of children with DSM-IV diagnoses of pervasive developmental disorders.** *The American Journal of Psychiatry.* 2012 Oct;169(10):1056-64.

This paper examined the sensitivity and specificity of the DSM-5 criteria for autism spectrum disorder (ASD) in over 4400 children with DSM-IV diagnoses of ASD and 690 children with non-ASD diagnoses. Results indicated that over 90% of children with ASD would continue to meet eligibility for a diagnosis using the proposed DSM-5 criteria for ASD. In addition, when applying DSM-5 criteria, the authors found greater sensitivity in specific subgroups (e.g., females with ASD, children under the age of 4) and greater specificity as compared to DSM-IV criteria. Thus, the DSM-5 criteria for ASD appears to continue to identify most children with previous diagnoses of ASD and also leads to fewer misclassifications as compared to DSM-IV criteria.

Wiley S, Meinzen-Derr J, Stremel-Thomas K, Schalock M, Bashinksi SM, Ruder C. **Read Outcomes for children with deaf-blindness with cochlear implants; a multisite observational study.** *Otol Neurotol.* 2013 Apr;34(3):507-15.

This study shifted the prior level of evidence on outcomes of children with dual sensory loss with cochlear implants from small case series to a large observational study. Among 91 children across the United States with dual sensory loss with a cochlear implant, language outcomes were highly variable. Approximately 25% of children achieving good language levels and cognitive development rather than type of vision impairment was most predictive of better language outcomes.

Division Publications

1. Adams RE, Cantin S. **Self-Disclosure in Friendships as the Moderator of the Association Between Peer Victimization and Depressive Symptoms in Overweight Adolescents.** *Journal of Early Adolescence.* 2013; 33:341-362.
2. Bishop SL, Hus V, Duncan A, Huerta M, Gotham K, Pickles A, Kreiger A, Buja A, Lund S, Lord C. **Subcategories of restricted and repetitive behaviors in children with autism spectrum disorders.** *J Autism Dev Disord.* 2013; 43:1287-97.
3. Bishop SL, Seltzer MM. **Self-reported autism symptoms in adults with autism spectrum disorders.** *J Autism Dev Disord.* 2012; 42:2354-63.
4. Blum NJ, Feldman HM, Barbaresi WJ, Schonfeld DJ, Hansen RL, Forrest CB. **Research priorities for developmental-behavioral pediatrics: a DBPNet consensus study.** *J Dev Behav Pediatr.* 2012; 33:509-16.
5. Boscarino JA, Kirchner HL, Hoffman SN, Sartorius J, Adams RE, Figley CR. **The New York PTSD risk score for assessment of psychological trauma: male and female versions.** *Psychiatry Res.* 2012; 200:827-34.
6. Carboni I, Gilman R. **Brokers at risk: Gender differences in the effects of structural position on social stress and life satisfaction..** *Group Dynamics: Theory, Research, and Practice.* 2012; 16:218-230.

7. Coury DL, Anagnostou E, Manning-Courtney P, Reynolds A, Cole L, McCoy R, Whitaker A, Perrin JM. **Use of psychotropic medication in children and adolescents with autism spectrum disorders.** *Pediatrics*. 2012; 130 Suppl 2:S69-76.
8. Davidovitch M, Hemo B, Manning-Courtney P, Fombonne E. **Prevalence and incidence of autism spectrum disorder in an Israeli population.** *J Autism Dev Disord*. 2013; 43:785-93.
9. DeWall CN, Gilman R, Sharif V, Carboni I, Rice KG. **Left out, sluggardly, and blue: Low self-control mediates the relationship between ostracism and depression.** *Personality and Individual Differences*. 2012; 53:832-837.
10. Ehrhardt J, Huntington N, Molino J, Barbaresi W. **Special education and later academic achievement.** *J Dev Behav Pediatr*. 2013; 34:111-9.
11. Esbensen AJ, Hartley SL. **Cognitive–Behavioral Therapy for Mood Disorders.** In: JL Taylor, WR Lindsay, RP Hastings, C Hatton, eds. *Psychological Therapies for Adults with Intellectual Disabilities*. West Sussex, UK: John Wiley & Sons, Ltd. ; 2013:117-132.
12. Esbensen AJ, Hendershot L, Hickey F, Patterson B. **Accounting for racial disparities in mortality among children with Down Syndrome.** *Journal of Intellectual Disability Research*. 2012; 56:754.
13. Gilman R, Carter-Sowell A, Dewall CN, Adams RE, Carboni I. **Validation of the Ostracism Experience Scale for Adolescents.** *Psychol Assess*. 2012; 25:319-30.
14. Gotham K, Bishop SL, Hus V, Huerta M, Lund S, Buja A, Krieger A, Lord C. **Exploring the relationship between anxiety and insistence on sameness in autism spectrum disorders.** *Autism Res*. 2013; 6:33-41.
15. Hart CK, Wiley S, Choo DI, Eby C, Tucker L, Schapiro M, Meinzen-Derr J. **Developmental disabilities and intracranial abnormalities in children with symptomatic cytomegalovirus and cochlear implants.** *ISRN Otolaryngol*. 2012; 2012:502746.
16. Ho JG, Caldwell RL, McDougle CJ, Orsagh-Yentis DK, Erickson CA, Posey DJ, Stigler KA. **The effects of aripiprazole on electrocardiography in children with pervasive developmental disorders.** *J Child Adolesc Psychopharmacol*. 2012; 22:277-83.
17. Huerta M, Bishop SL, Duncan A, Hus V, Lord C. **Response to Ritvo and Ritvo letter.** *Am J Psychiatry*. 2013; 170:445-6.
18. Huerta M, Bishop SL, Duncan A, Hus V, Lord C. **Application of DSM-5 criteria for autism spectrum disorder to three samples of children with DSM-IV diagnoses of pervasive developmental disorders.** *Am J Psychiatry*. 2012; 169:1056-64.
19. Hus V, Bishop S, Gotham K, Huerta M, Lord C. **Factors influencing scores on the social responsiveness scale.** *J Child Psychol Psychiatry*. 2013; 54:216-24.
20. Kelly NC, Ammerman RT, Rausch JR, Ris MD, Yeates KO, Oppenheimer SG, Enrile BG. **Executive functioning and psychological adjustment in children and youth with spina bifida.** *Child Neuropsychol*. 2012; 18:417-31.
21. Lahiri DK, Sokol DK, Erickson C, Ray B, Ho CY, Maloney B. **Autism as early neurodevelopmental disorder: evidence for an sAPP α -mediated anabolic pathway.** *Front Cell Neurosci*. 2013; 7:94.
22. Manning-Courtney P, Murray D, Currans K, Johnson H, Bing N, Kroeger-Geoppinger K, Sorensen R, Bass J, Reinhold J, Johnson A, Messerschmidt T. **Autism spectrum disorders.** *Curr Probl Pediatr Adolesc Health Care*. 2013; 43:2-11.
23. Mazurek MO, Vasa RA, Kalb LG, Kanne SM, Rosenberg D, Keefer A, Murray DS, Freedman B, Lowery LA. **Anxiety, sensory over-responsivity, and gastrointestinal problems in children with autism spectrum disorders.** *J Abnorm Child Psychol*. 2013; 41:165-76.
24. Richards J, Edwards K, Lackey M, Wallace L, Calleson J, Barber C, Long T, Lin S, Farel A. **Collaborative**

learning and technology skills development: evaluation of an online annual grantee meeting.

Matern Child Health J. 2012; 16:1549-52.

25. Santo JB, Bukowski WM, Stella-Lopez L, Carmago G, Mayman SB, Adams RE. **Factors Underlying Contextual Variations in the Structure of the Self: Differences Related to SES, Gender, Culture, and "Majority/Nonmajority" Status During Early Adolescence.** *Journal of Research on Adolescence.* 2013; 23:69-80.
26. Stigler KA, Mullett JE, Erickson CA, Posey DJ, McDougle CJ. **Paliperidone for irritability in adolescents and young adults with autistic disorder.** *Psychopharmacology (Berl).* 2012; 223:237-45.
27. Wiley S, Meinzen-Derr J. **Use of the ages and stages questionnaire in young children who are deaf/hard of hearing as a screening for additional disabilities.** *Early Hum Dev.* 2013; 89:295-300.
28. Wiley S, Meinzen-Derr J, Stremel-Thomas K, Schalock M, Bashinski SM, Ruder C. **Outcomes for children with deaf-blindness with cochlear implants: a multisite observational study.** *Otol Neurotol.* 2013; 34:507-15.
29. Yuan W, McKinstry RC, Shimony JS, Altaye M, Powell SK, Phillips JM, Limbrick DD, Jr., Holland SK, Jones BV, Rajagopal A, Simpson S, Mercer D, Mangano FT. **Diffusion tensor imaging properties and neurobehavioral outcomes in children with hydrocephalus.** *AJNR Am J Neuroradiol.* 2013; 34:439-45.

Faculty, Staff, and Trainees

Faculty Members

David Schonfeld, MD, Professor

Leadership Division Director (July-Oct)

Research Interests Children's understanding of serious illness (e.g., AIDS, cancer) and death and school-based interventions to advance children's understanding and adjustment and to prevent the onset of risk behaviors.

Patricia Manning-Courtney, MD, Associate Professor

Leadership Co-Interim Division Director (Oct-Jun); Medical Director, Kelly O' Leary Center for Autism Spectrum Disorders

Research Interests Autism and Quality Improvement Access Services

Susan Wiley, MD, Associate Professor

Leadership Co-Interim Division Director (Oct-Jun)

Research Interests Children with dual sensory impairments, children who are deaf/hard of hearing with an additional disability, functional communication in young children who are deaf/hard of hearing

Sonya Oppenheimer, MD, Professor Emerita

Research Interests Spina Bifida; High-Risk Infants; Early Intervention; Down Syndrome

Ryan Adams, PhD, Assistant Professor

Research Interests Adolescent relationships (i.e. friendships, mother-child, romantic relationships); peer groups, peer victimization, & peer experiences of obese adolescents and adolescents w/autism spectrum disorder

Julia Anixt, MD, Assistant Professor

Research Interests ADHD; the diagnosis and management of behavioral and mental health issues in primary care settings, access to care for underserved populations, shared decision-making for medication decisions

Holly Barnard, PhD, Assistant Professor

Research Interests Social interactions of children with ASDs, the impact of hearing loss on cognitive functioning and the role of environmental risk factors (e.g., maternal cotinine levels) on the manifestation of executive dysfunction.

Aimee Duncan, PhD, Assistant Professor

Research Interests Identifying factors that may promote or impede an optimal outcome in adulthood for individuals with ASD, interventions to increase daily living skills and overall independence in adolescents with ASD

Karen Edwards, MD, MPH, Associate Professor

Leadership LEND Program Director/UCEDD Director

Research Interests Leadership training; developmental disabilities in childhood; early identification of developmental disabilities

Jennifer Ehrhardt, MD, Assistant Professor

Research Interests Children in foster care who are at risk for developmental delay, timely access to intervention for young children with delays

Anna Esbensen, PhD, Assistant Professor

Research Interests Lifespan development and health care of individuals with Down Syndrome, with a specific focus on behavioral outcomes, mental health of individuals with intellectual disability, Down Syndrome research registry collaborating across Ohio.

Tanya Froehlich, MD, Assistant Professor

Research Interests ADHD; Health Care Disparities, genetic and phenotypic predictors of ADHD medication response, contributions of environmental exposures to etiology of ADHD.

Richard Gilman, PhD, Associate Professor

Leadership Coordinator, DDBP Psychology and Special Education Services

Research Interests Social relationships of children diagnosed with various disabilities; Therapeutic change mechanisms; Sleep and ADHD; Perfectionism

Kimberly Kroeger-Goeppinger, PhD, Assistant Professor

Research Interests Autism interventions, including early intensive behavioral intervention; group interventions; social skills training

Lisa Kuan, MD, Assistant Professor

Research Interests Academic readiness in young children with cochlear implants, stability of autism spectrum disorder from very early childhood

Patricia Logan, PhD, Assistant Professor

Research Interests Learning disabilities, learning associated with congenital heart disorders

Karen Mason, MD, Assistant Professor

Leadership Director of Residency Rotation

Research Interests Training residents in developmental and behavioral conditions

Donna Murray, PhD, Associate Professor

Leadership Director of Treatment, Kelly O'Leary Center for Autism Spectrum Disorders; Clinical Director, Division of Developmental and Behavioral Pediatrics

Research Interests Face/Name recognition in children with ASD, joint attention and language in children with ASD

Roz Parrish, MSN *, Assistant Professor

Research Interests Interdisciplinary Training (*Deceased)

Jannel Phillips, PhD, Assistant Professor

Research Interests Academic readiness in young children with cochlear implants, executive functioning in children with ventriculoperitoneal shunts.

Ilka Riddle, PhD, Assistant Professor

Research Interests Health disparities and health equity for individuals with disabilities; accessibility and inclusiveness of medical, health care and physical activity environments; health care transition of youth with special health care needs.

David Schor, MD, Associate Professor

Research Interests Public health and policy, Rubinstein Taybi Syndrome

Rebecca Shaffer, PhD, Assistant Professor

Harriet Valentin, MD, Assistant Professor

Research Interests Autism Spectrum Disorder

Pam Williams-Arya, MD, Assistant Professor

Research Interests The impact of sleep on behavior in teens

Michelle Zimmer, MD, Assistant Professor

Research Interests Utility of holistic therapies in promoting health and wellness among children with disability

Clinical Staff Members

Robin Adams, PhD

Terry Barnes, RN, BSN

Jennifer Bass, PsyD

Jennifer Bekins, MS, CCC-SLP

Christena Benson, RN, MPH

Beth Bishop, OTR/L

Carissa Blatz, BA

Emily Boehmler, BA

Annette Bonjour, BS, CCLS

Jennifer Brown, PhD, CCC-SLP

Karen Burkett, RN, MS, CNP

Meredith Burt, MS, CCC-SLP

Jenny Burton, MEd, CCC-SLP

Gretchen Carroll, MA

Deb Case EdD,

Cliff Copeland, MSW, LISW-S

Kristn Currans, PsyD

Patricia Curry, RN, MS, CNP

Kerry Dalton, RA

Brenda Diver, RN
Jamie Donovan, OTR/L, MOT
Mattie Dunn, AA
Patricia Eiler-Sims, PsyD
Anna Esbensen, PhD
Melissa Foti-Hoff, PsyD
Katie Frank, MHS, OTR/L
Bridget Fredstrom, MA
Jane Gaspar, MEd
Jennifer Gastright, BS
Marta Getz, MSW, LISW
Carol Grasha, MA, CCC-SLP
Sarah Greenwell, PhD
Sandra Grether, PhD, CCC-SLP
Andrea Hansen, MA, CCC-SLP
Mary Harrah, RN, BSN, cpn
Sarah Hayes, BA
Tara Heintz, MSW
Amy Hersh, MA, CCC-SLP
Julie Hibner, MA, CCC-SLP
Victoria Hickey, RN, MS
Caryn Hogan, RN, MN
Amy Johnson, OTR/L
Heather Johnson, PsyD
Peter Keiser, MSW, LISW
Bridget Kent, MA, CCC-SLP
Marc Kepner, PsyD
Kathy Krebs, OTR/L
Marcia Lamkin, RN
Peggy Landwehr, RN
Latoya Lemley, AA
Mike Lind, PhD
Cynthia Longmire, HUC
Patty Loretto, RN
Ryan Macks, PhD
Molly Markley, RN, BSN
Stacy Masterson, MEd
Heather Matheson, BA
Susan McGee, RN, MSN, CNP
Teri Messerschmidt, MA, CCC-SLP
Joe Milling, BS
Terry Mitchell, CCRP
Robert Moody, MA
Michelle Moore, DBMMA
Ashley Morris, PCA

Stacey Morrison, PsyD
Elizabeth Mulvihill, RN
Lindsey Murphy, BS, CCLS
Shelley Myers, MS, CCC-SLP
David Neises, MEd, OTR/L, ATP
Patty Norton, RN
Andrea O'Brien, PhD, MSW
Lucy Paredes, RN, BSN
Julie Perron, BA
Chandra Pester, RN, MSN, CNS
Jannel Phillips, PhD
Mindy Reagan, RD, LD
Judy Reinhold, RN, MSN, CNP
Kimberly Reizner, PT, DPT
Mary Faith Roell, MS
Christina Rogers, MA, CCC-SLP
Kathy Rosing, RN
Kimberly Rotundo, MEd
Julia Schott, DBMMA
Tracy Shook, RN, BSN
David Smith, PhD
Kristen Smith, MA, CCC-SLP
Rena Sorensen, PhD
Meghan Stahlhut, MS, CCC-SLP
Christina Stover, MA, CCC-SLP
Rebecca Taylor, RN, MSN, CNP
Laura Thielman, BA
Katherine Thoman, RN, MSN, CNP
Carrie Thomas, BS
Kelly Twehues, MA, CCC-SLP
Sarah Tyo, BA
Megan Vincent, BA
Stephanie Weber, PsyD
Jack Williams, BA
Ann Wilmers, RN

Trainees

Joseph Amaral, Jr., PhD
Brent Anderson, PsyD
Debra (Katie) Bentley, BS, Eastern KY University
Beth Bishop, MOT
Sara Bitter, JD, Case Wester U School Law
Stephanie Bowman, BS, University of Cincinnati
Deborah Boyd, MD, Cincinnati Children's Hospital Medical Center
Ashley Brazil, BS, Univeristy of California, Davis

Jonathan Castillo, MD, Cincinnati Children's Hospital Medical Center
Vilawan Chirdkiatgumchai, MD, Mahidol University
Alyson Dempsey, BA, University of Cincinnati
Alison Downes, MD, Cincinnati Children's Hospital Medical Center
Julie Dunford, BS, University of Cincinnati
Nicole Dupont, MA, University of Cincinnati
Amanda Fowler, DPT
Stephanie Ghantous, EdS, University of Cincinnati
Amy Gladstone, MS, Michigan State University
Thomas (Zach) Goble, PhD, University of Kentucky
Alana Goldstein, PsyD
Lyndsie Hall, PhD, Youngstown State
Sarah Hayes, EdS, Xavier University
Allison Heinekamp, MOT, Xavier University
Danielle Henderson, PhD
Lauren Holleb, PsyD
Rebekah Hudock, PhD
Emily Johnson, PsyD
Christine Karver, PhD
David Kelly, PsyD, Xavier University
Wallace Larkin, PhD, University of Cincinnati
Lindsay Mays, PhD, Palo Alto University
Margaret McKnight, EdS, Ohio University
Erika Mellot, PsyD
Hilary Meyer, BS
Allison Moffett, MSW, Indiana University
Dora Murphy-Courter, AuD, University of Cincinnati
Ashley Murray, PsyD
Shannon O'Connor, BA
Dolores Pfeiffer, BS
Kathryn (Katie) Quaintance, BA, Miami University
Verity Rodrigues, PhD
Emily Schreiber, PsyD
Lauren Sheppard, BS
Ashley Shier, PhD, University of Cincinnati
Allison Stepp, MA, Ball State University
Christine Tan, EdD, University of New Haven
Stephanie Weber, PsyD
Alyssa Wendling, BA
Tanishia Williams, MD
Pam Williams-Arya, MD, Cincinnati Children's Hospital Medical Center

Division Collaboration

Division of Biostatistics and Epidemiology » Jareen Meinzen-Derr, PhD

DDBP is collaborating with Dr. Meinzen-Derr in the Division of Biostatistics and Epidemiology on the HRSA-

funded study "Cognition and Language in Deaf and Hard of Hearing Children." This work has been instrumental in illustrating the functional impact of language-cognitive gap in children who are deaf and hard of hearing.

Division of Child Psychiatry » Craig Erickson, MD

DDBP and Child Psychiatry have begun a fruitful collaboration around the treatment and research of individuals with Autism Spectrum Disorder. Dr. Craig Erickson, recruited by Child Psychiatry, has a practice and research focus on autism spectrum disorders, and Fragile X Syndrome. His clinical work and research is housed in DDBP, which has fostered an interdisciplinary approach both in clinical treatment and in conducting research protocols. Drs. Manning and Erickson are Co-PIs on the Autism Speaks Autism Treatment Network, and further collaboration to expand treatment options for children with ASD is planned.

Division of Cardiology » Brad Marino, MD

DDBP has collaborated with The Heart Institute to staff and support the Neurodevelopmental Clinic, following children with congenital heart disease for common neurodevelopmental complications. Physicians, psychologists and special educators have been embedded in the clinic, which serves a growing population of children with CHD and co-morbid developmental concerns.

Grants, Contracts, and Industry Agreements

Grant and Contract Awards	Annual Direct
DUNCAN, A	
Evaluating the Time-Dependent Unfolding of Social Interactions in Children with Autism	
National Institutes of Health(University of Cincinnati)	
R21 MH 094659	08/06/12-05/31/14
	\$80,765
Training Outpatient Clinicians to Delivery Cognitive Behavior Therapy to Children	
National Institutes of Health(University of Colorado)	
R33 MH 089291	08/01/12-06/30/14
	\$10,458
Risk & Resiliency for Youth with Autism During the Transition to Adulthood	
Vanderbilt University	
VUMC 41111	02/01/13-02/28/15
	\$20,935
EDWARDS, K	
Leadership Education in Neurodevelopmental and Other Related Disabilities (LEND) Training Program	
Health Resources & Services Admin(University of Cincinnati)	
T73 MC00032	07/01/11-06/30/16
	\$527,197
University Centers for Excellence in Developmental Disabilities	
Assoc of Univ Center on Disabilities(University of Cincinnati)	
90DD0696/01	07/01/12-06/30/17
	\$453,108
FROEHLICH, T	
Medication Response in Children with Predominantly Inattentive Type ADHD	
National Institutes of Health	
K23 MH 083881	06/04/09-01/31/14
	\$152,755

GILMAN, R**Using SNA to Examine the Long-Term Outcomes of Socially Excluded Adolescents**

National Institutes of Health

R21 HD 068315

04/01/12-03/31/14

\$155,891

MANNING, P**Autism Intervention Research Network**

Health Resources & Services Admin(Massachusetts General Hospital)

UA3 MC 1105

09/01/11-08/31/14

\$48,885

Autism Treatment Network

Autism Speaks Grant Administration

01/01/11-12/31/13

\$121,739

RIDDLE, I**Improving the Health of People with Disabilities through State Based Public Health Programs**

Center for Disease Control and Prevention(Ohio State University)

U59 DD 00931

07/01/12-06/30/15

\$35,711

THOMAN, K.**National Spina Bifida Registry Longitudinal Data Collection and Evaluation**

Center for Disease Control and Prevention

U01 DD 000766

09/30/11-06/29/14

\$63,636

WILEY, S**Extracting EHR Data on Use of Psychotropic Medications in DBPNet**

Maternal & Child Health Bureau(Children's Hospital of Philadelphia)

UA3MC20281

09/01/12-08/31/13

\$5,000

Newborn Screening & Intervention Programs

National Initiative for Children's Healthcare Quality, Inc.

06/01/11-09/30/13

\$39,667

Current Year Direct**\$1,715,747****Total****\$1,715,747**