

Division of Psychiatry

DIVISION PROFILE	
Number of Faculty	13
Number of Joint Appointment Faculty	2
Number of Fellows	
Clinical Fellows	6
Number of Other Students (full and part-time)	78
Number of Support Personnel	47
Annual Total Grant Support (direct)	\$340,779
Annual Total Industry Contracts (direct)	\$47,653
Number of Peer Reviewed Publications	33
Patient Encounters	
Outpatient	13,690
Inpatient	19,577

FACULTY LISTING

Michael Sorter, MD, Associate Professor, Division Director
Drew Barzman, MD, Assistant Professor
Pamela Campbell, MD, Associate Professor
Sergio Delgado, MD, Associate Professor
Carol Engel, MD, Assistant Professor
Velissarios Karacostas, MD, Assistant Professor
Robert Kowatch, MD, Professor, Director of Mood Disorders Program
Daniel Nelson, MD, Associate Professor
Sanjeev Pathak, MD, Assistant Professor
Suzanne Sampang, MD, Assistant Professor
Gayathri Tadepalli, MD, Assistant Professor
Raymond Troy, MD, Assistant Professor
Daniel Vogel, MD, Assistant Professor

FACULTY JOINT APPOINTMENT LISTING

Melissa DeBello, MD, Assistant Professor, Psychiatry
Brian McConville, MD, Professor, Psychiatry

OVERVIEW

The Division of Child & Adolescent Psychiatry is dedicated to serving the mental health needs of infants, children, adolescents, and their families. The division provides clinical care, education, research, and community service to improve the psychiatric outcomes of children, adolescents, and families.

Clinical

The continuum of care offered by the CCHMC Division of Child & Adolescent Psychiatry provides needed mental health services to children and families throughout the region. Five inpatient units provide intensive, supervised treatment to children and adolescents who have acute psychiatric needs. Inpatient units are in two locations: CCHMC Main Campus (43 bed) and the College Hill Campus (24 beds). Services are offered to children from infancy up to early adulthood. A 33-bed residential psychiatric program located at the College Hill Campus provides care to children and adolescents who suffer from chronic mental illness and require longer term care in a therapeutic environment. The psychiatric intake response center conducts emergency evaluations and referral services to community agencies throughout the region. The psychiatric consultation service offers diagnostic and treatment services for patients with co-morbid medical and psychiatric illness. Psychiatry Outpatient services provide diagnostic assessments, pharmacologic management, and intensive psychotherapy services for the full spectrum of mental health disorders. The Division of Psychiatry physicians

also integrated into the community systems of care. These services include direct care and consultation to therapeutic school settings, residential care facilities, group homes, and case management agencies.

Teaching

The Division of Child & Adolescent Psychiatry maintains two residency programs. The pediatric, general psychiatry, and child and adolescent psychiatry residency program is one of ten Triple Board Programs in the country. This five-year residency program produces physicians who are board-eligible in Pediatrics, General Psychiatry, and Child & Adolescent Psychiatry. The Child & Adolescent Psychiatry Residency Program trains 4th and 5th year residents in General and Child & Adolescent Psychiatry. The division is active in training medical students, general psychiatry residents, pediatric residents, and other physician trainees in family mental health and child & adolescent psychiatry. The division presents Child Psychiatry Grand Rounds, which is open to all members of the Medical Center and all community providers of mental health treatment.

Research

Divisional research is focused on pediatric mood disorders. Studies have included examination of pediatric bipolar disorder and major depression. In addition, increasing research in the area of childhood aggression, its manifestations, precursors, and treatment are also underway. Research includes NIMH funded initiatives, along with industry supported pharmacologic trials.



*Left to Right: (1st row) M. Sorter, S. Delgado, V. Karacostas, D. Nelson
(2nd row) G. Tadepalli, S. Pathak, D. Barzman, P. Campbell,
M. Matias-Akhtar, C. Engel, S. Sampang, R. Troy, R. Kowatch*

HIGHLIGHTS

The Department of Child & Adolescent Psychiatry has continued expansion of psychiatric services into the community. The Surviving the Teens program is an outreach program, making contact with children from 7th to 12th grade that identifies youth with depression and suicide prevention. This program educates youth regarding elements of mood disorders, screens for suicide risk, and focuses on high risk behaviors. Teachers and parents also participate in the program, and are equipped with tools to recognize depression, and potential suicide risk. Resources to obtain care are provided to students, school faculty, and parents so that the appropriate services are available. In addition to service to 23 schools in the past year, this program has developed a website that uses clinical vignettes geared toward the adolescent population to illustrate problem areas and skills to resolve difficulties. This program has been led by Cathy Strunk, RN, and Michael Sorter, MD, and has been made possible by the generous support of the Butler Foundation.

Recent clinical initiatives have been to improve the care of children with co-morbid medical illness and psychiatric disorders by bringing psychiatric care to medical service sites. Daniel Nelson, MD, has worked

with the Division of Neurology, with a special emphasis on tuberous sclerosis. These children often have frequent mood and reality testing difficulties that require intensive psychiatric care. Pamela Campbell, MD, has expanded the role of Psychiatry in the Division of Developmental Disorders and Behavioral Pediatrics. Working with nurse practitioners, she has greatly expanded the psychiatric care of these young people who often have severe mental health and disruptive behavior symptoms. Carol Engel, MD, continues ongoing work in the Division of Adolescent Medicine. Working in the Teen Health Center, she has provided diagnostic, psychotherapeutic, and pharmacologic treatment options to this high risk population, which frequently has co-morbid psychiatric disorders.

The division has also improved research training. Dr. Melissa DelBello was appointed Director of Psychiatry Research Training. This has greatly enhanced research exposure and participation by trainees in both of our Residency Programs, and among medical students. This program has led multiple residents to be primary investigators in a variety of areas that include: impulsivity in adolescents with bipolar disorder, cerebellar ataxia in youth at risk for bipolar disorder, symptom profiles of youth at high risk for bipolar disorder, areas of brain activation in subjects with mood disorders, and neuroanatomic characteristics of child offspring of mood disorder parents.

The Division of Psychiatry continues its involvement in clinical research in pediatric mood disorders. Under the leadership of Robert Kowatch, MD, multiple studies investigating the clinical management of pediatric bipolar disorder are underway. Most recent studies include the pediatric bipolar collaborative mood stabilizer trial. This NIMH study evaluates the efficacy of two mood stabilizers, lithium and divalproex sodium vs. placebo in children and adolescents. Further studies have included use of Risperidone in very young children with onset of bipolar disorder and use of Aripiprazole in children and adolescents with bipolar disorder. Dr. Drew Barzman continues work in the area of childhood aggression. He has developed an aggression rating scale, which has allowed early detection of adolescents at high risk for physical aggression during treatment and allowed more individualized care to prevent episodes and lower the use of seclusion and restraints. His work has also included pharmacologic intervention for both the acute phase of physical aggression and also prevention of further episodes. Dr. Sanjeev Pathak is active in the research of pharmacogenetics of suicidal pediatric depression, with the goal of providing genetic markers to predict response and develop individualized treatment paradigms for depression in youth.

TRAINING

Julie Alonso-Katzowitz, MD	PL-I	Vanderbilt University
William Taft, MD	PL-I	Washington University
Rabindra Tambyraja, MD	PL-I	Case Western Reserve University
Andrea Ribier, MD	PL-II	University of Michigan
John Diggins, MD	PL-III	University of Cincinnati
Callie Emery, MD	PL-III	University of Texas
Maria Stamatakos, MD	PL-III	University of Cincinnati
Sandra Batsel-Thomas, MD	PL-IV	University of Kentucky
Lisa Giles, MD	PL-IV	University of Utah
Jayasree Nandagopal, MD	PL-IV	Topiwala National Medical College, India
Manpreet Singh, MD	PL-IV	Michigan State University
Craig Carpenter, MD	PL-V	University of Cincinnati
Paul Crosby, MD	PL-V	University of Cincinnati
Mary Matias-Akhtar, MD	PL-V	Brown University
Noah Miller, MD	PL-V	NE Ohio University
Brandon Strange, MD	PL-V	Meharry Medical College
Alla Baskakova, MD	PL-VI	St. Petersburg Pediatric Medical Academy, Russia

GRANTS, CONTRACTS AND INDUSTRY AGREEMENTS

Grant and Contract Awards	Annual Direct/Project Period Direct
Kowatch, R	
Longitudinal Assessment of Maniac Symptoms National Institutes of Health R01 MH 073816	09/16/05 – 06/30/10 \$274,284/\$1,379,518
Pathak, S	
Treatment of Adolescents with Depression Study National Institutes of Health (Duke University subcontract) N01 MH 080008	12/01/01 – 02/28/06 \$15,623/\$491,899
Substance Use Outcomes Following Treatment for Adolescent Depression National Institutes of Health (Duke University subcontract) R01 MH 070494	05/01/04 – 04/30/08 \$20,872/\$83,600
Sorter, M	
Suicide Prevention Program Butler Foundation	07/01/00 – 06/30/06 \$30,000/\$230,089
	Current Year Direct \$340,779
Industry Contracts	
Barzman, D	
Pfizer	\$11,550
Pathak, S	
Forest Research	\$36,103
	Current Year Direct Receipts \$47,653
	TOTAL \$388,432

PUBLICATIONS

1. Barzman DH, DelBello MP, Kowatch RA, Warner J, Rofey D, Stanford K, Rappaport K, Daniels JP, Strakowski SM. Adjunctive topiramate in hospitalized children and adolescents with bipolar disorders. *J Child Adolesc Psychopharmacol* 2005;15(6):931-7.
2. Barzman DH, McConville BJ, Masterson B, McElroy S, Sethuraman G, Moore K, Kahwaty AM, Nelson D. Impulsive aggression with irritability and responsive to divalproex: a pediatric bipolar spectrum disorder phenotype? *J Affect Disord* 2005;88(3):279-85.
3. Adler CM, Adams J, DelBello MP, Holland SK, Schmithorst V, Levine A, Jarvis K, Strakowski SM. Evidence of white matter pathology in bipolar disorder adolescents experiencing their first episode of mania: a diffusion tensor imaging study. *Am J Psychiatry* 2006;163(2):322-4.
4. Adler CM, Delbello MP, Mills NP, Schmithorst V, Holland S, Strakowski SM. Comorbid ADHD is associated with altered patterns of neuronal activation in adolescents with bipolar disorder performing a simple attention task. *Bipolar Disord* 2005;7(6):577-88.
5. Adler CM, DelBello MP, Strakowski SM. Brain network dysfunction in bipolar disorder. *CNS Spectr* 2006;11(4):312-20; quiz 323-4.
6. Adler CM, Levine AD, DelBello MP, Strakowski SM. Changes in gray matter volume in patients with bipolar disorder. *Biol Psychiatry* 2005;58(2):151-7.
7. DelBello MP. Focus on Childhood and Adolescent Mental Health. *J Clin Psychiatry* 2006;67(1):5-6.

8. DelBello MP, Adler CM, Strakowski SM. The neurophysiology of childhood and adolescent bipolar disorder. *CNS Spectr* 2006;11(4):298-311.
9. DelBello MP, Cecil KM, Adler CM, Daniels JP, Strakowski SM. Neurochemical effects of olanzapine in first-hospitalization manic adolescents: a proton magnetic resonance spectroscopy study. *Neuropsychopharmacology* 2006;31(6):1264-73.
10. DelBello MP, Kowatch RA, Adler CM, Stanford KE, Welge JA, Barzman DH, Nelson E, Strakowski SM. A double-blind randomized pilot study comparing quetiapine and divalproex for adolescent mania. *J Am Acad Child Adolesc Psychiatry* 2006;45(3):305-13.
11. Kratochvil CJ, Delbello M, Upadhyaya H, Wozniak J. Pharmacological management of new-onset bipolar disorder. *J Am Acad Child Adolesc Psychiatry* 2005;44(11):1198-200.
12. Mills NP, Delbello MP, Adler CM, Strakowski SM. MRI analysis of cerebellar vermal abnormalities in bipolar disorder. *Am J Psychiatry* 2005;162(8):1530-2.
13. Patel NC, DelBello MP, Bryan HS, Adler CM, Kowatch RA, Stanford K, Strakowski SM. Open-label lithium for the treatment of adolescents with bipolar depression. *J Am Acad Child Adolesc Psychiatry* 2006;45(3):289-97.
14. Patel NC, DelBello MP, Keck PE, Jr., Strakowski SM. Ethnic differences in maintenance antipsychotic prescription among adolescents with bipolar disorder. *J Child Adolesc Psychopharmacol* 2005;15(6):938-46.
15. Patel NC, Delbello MP, Keck PE, Jr., Strakowski SM. Phenomenology associated with age at onset in patients with bipolar disorder at their first psychiatric hospitalization. *Bipolar Disord* 2006;8(1):91-4.
16. Patel NC, DelBello MP, Kowatch RA, Strakowski SM. Preliminary study of relationships among measures of depressive symptoms in adolescents with bipolar disorder. *J Child Adolesc Psychopharmacol* 2006;16(3):327-35.
17. Patel NC, Delbello MP, Strakowski SM. Ethnic differences in symptom presentation of youths with bipolar disorder. *Bipolar Disord* 2006;8(1):95-9.
18. Perlis RH, Delbello MP, Miyahara S, Wisniewski SR, Sachs GS, Nierenberg AA. Revisiting depressive-prone bipolar disorder: polarity of initial mood episode and disease course among bipolar I systematic treatment enhancement program for bipolar disorder participants. *Biol Psychiatry* 2005;58(7):549-53.
19. Romero S, Delbello MP, Soutullo CA, Stanford K, Strakowski SM. Family environment in families with versus families without parental bipolar disorder: a preliminary comparison study. *Bipolar Disord* 2005;7(6):617-22.
20. Strakowski SM, Adler CM, Holland SK, Mills NP, DelBello MP, Eliassen JC. Abnormal FMRI brain activation in euthymic bipolar disorder patients during a counting Stroop interference task. *Am J Psychiatry* 2005;162(9):1697-705.
21. Strakowski SM, DelBello MP, Fleck DE, Adler CM, Anthenelli RM, Keck PE, Jr., Arnold LM, Amicone J. Effects of co-occurring alcohol abuse on the course of bipolar disorder following a first hospitalization for mania. *Arch Gen Psychiatry* 2005;62(8):851-8.
22. Strakowski SM, Johnson JL, Delbello MP, Hamer RM, Green AI, Tohen M, Lieberman JA, Glick I, Patel JK. Quality of life during treatment with haloperidol or olanzapine in the year following a first psychotic episode. *Schizophr Res* 2005;78(2-3):161-9.
23. Zimmerman ME, DelBello MP, Getz GE, Shear PK, Strakowski SM. Anterior cingulate subregion volumes and executive function in bipolar disorder. *Bipolar Disord* 2006;8(3):281-8.
24. Danielyan A, Kowatch RA. Management options for bipolar disorder in children and adolescents. *Paediatr Drugs* 2005;7(5):277-94.
25. Kowatch RA, DelBello MP. Pediatric bipolar disorder: emerging diagnostic and treatment approaches. *Child Adolesc Psychiatr Clin N Am* 2006;15(1):73-108.
26. Kowatch RA, Youngstrom EA, Danielyan A, Findling RL. Review and meta-analysis of the phenomenology and clinical characteristics of mania in children and adolescents. *Bipolar Disord* 2005;7(6):483-96.

27. Post RM, Kowatch RA. The health care crisis of childhood-onset bipolar illness: some recommendations for its amelioration. *J Clin Psychiatry* 2006;67(1):115-25.
 28. McConville BJ, Delgado SV. How to plan and tailor treatment: an overview of diagnosis and treatment planning. In: Klykylo WM, Kay J, editors. *Clinical child psychiatry*; 2nd ed. Chichester, England ; Hoboken, NJ: Wiley; 2005. p. 91-108.
 29. Pathak S. Pharmacological treatments. In: Hersen M, Thomas JC, editors. *Comprehensive handbook of personality and psychopathology*. Hoboken, NJ: Wiley; 2006. p. 448-465.
 30. Pathak S, Johns ES, Kowatch RA. Adjunctive quetiapine for treatment-resistant adolescent major depressive disorder: a case series. *J Child Adolesc Psychopharmacol* 2005;15(4):696-702.
 31. Pathak S, Kratochvil CJ, Rogers GM, Silva S, Vitiello B, Weller EB, March JS. Comparative efficacy of cognitive behavioral therapy, fluoxetine, and their combination in depressed adolescents: initial lessons from the treatment for adolescents with depression study. *Curr Psychiatry Rep* 2005;7(6):429-34.
 32. Pathak S, Perry B. Anxiety disorders. In: Coffey CE, editor. *Pediatric neuropsychiatry*. Philadelphia: Lippincott Williams & Wilkins; 2006. p. 285-305.
 33. Sorter MT. Psychotic disorders. In: Klykylo WM, Kay J, editors. *Clinical child psychiatry*; 2nd ed. Chichester, England ; Hoboken, NJ: Wiley; 2005. p. 433-446.
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