

Division of Adolescent Medicine

DIVISION PROFILE	
Number of Faculty	14
Number of Joint Appointment Faculty	3
Number of Fellows	
Clinical Fellows	5
Number of Support Personnel	59
Annual Total Grant Support (direct)	\$2,031,447
Annual Total Service Collaborations	\$1,340,604
Annual Total Industry Contracts (direct)	\$21,485
Number of Peer Reviewed Publications	45
Patient Encounters	
Outpatient	20,538
Inpatient	4,544

FACULTY LISTING

Gail B. Slap, MD, MS, Rauh Professor of Pediatrics and Internal Medicine, Associate Chair; Director, Division of Adolescent Medicine

Frank M. Biro, MD, Professor of Pediatrics and Internal Medicine

Paula K. Braverman, MD, Professor of Pediatrics, Associate Director, Community Programs

Lesley L. Breech, MD, Assistant Professor of Pediatrics, Obstetrics-Gynecology, and Surgery

Maria T. Britto, MD, MPH, Associate Professor of Pediatrics and Internal Medicine

Lorah D. Dorn, PhD, Professor of Pediatrics, Associate Director, Research

Richard B. Heyman, MD, Adjunct Professor of Pediatrics

Paula J. Adams Hillard, MD, Professor of Obstetrics-Gynecology and Pediatrics, Associate Director, Pediatric / Adolescent Gynecology

Jill S. Huppert, MD, Assistant Professor of Pediatrics and Obstetrics-Gynecology

Jessica A. Kahn, MD, MPH, Associate Professor of Pediatrics, Associate Director, Research Training

Laurie A. P. Mitan, MD, Associate Professor of Pediatrics, Associate Director, Eating Disorders

Joseph L. Rauh, MD, Emeritus Professor of Pediatrics

Michael A. Spigarelli, MD, PhD, Assistant Professor of Pediatrics and Internal Medicine, Associate Director, Adolescent Medicine Fellowship

Michele L. Zucker, MD, Assistant Professor of Pediatrics

FACULTY JOINT APPOINTMENT LISTING

Carol Engel, MD, Adjunct Assistant Professor of Psychiatry and Pediatrics, Child and Adolescent Psychiatry

Bin Huang, PhD, Assistant Professor of Pediatrics, Epidemiology and Biostatistics

Corinne Lehmann, MD, Assistant Professor of Internal Medicine and Pediatrics, General Internal Medicine

STAFF PHYSICIAN LISTING

James R. Ebert, MD

Ronna L. Staley, MD

OVERVIEW

The division's principles are delivery of evidence-based care, preparation of academic leaders, and pursuit of research that promotes adolescent health and development. The division seeks to provide transdisciplinary care and research to advance adolescent health and wellness.



Left to Right: M. Spigarelli, P. Hillard, P. Braverman, M. Zucker, F. Biro, G. Slap, J. Rauh, L. Mitan, L. Breech, J. Kahn, J. Huppert

Clinical services include inpatient care at the Main Hospital and College Hill Campus and outpatient care at eight Teen Health Center locations: Main Hospital, Northern Kentucky, Anderson, Eastgate, Fairfield, Harrison, Mason, and West Chester. Special clinical programs of the Division include Teen Primary Care, Diagnostic Consultation, Eating Disorders, Pediatric/Adolescent Gynecology, and Medical/Psychiatric Management. Although most patients of the division are between the ages of 12 and 25 years, infants and children are also seen in consultation by the division's three obstetrician-gynecologists.

New community programs launched by the division include a collaborative effort to improve mental health care for adolescents re-entering the community following detention at the Hamilton County Juvenile Court Youth Center. Under the leadership of Dr. Braverman, a planning consortium identified specific prevention and treatment standards for adjudicated females who are at risk for mental health and substance use disorders. The consortium issued a request to community providers for proposed interventions to meet these standards and will work with the selected provider to secure funds for the intervention. Another example is the recent collaboration of the division with the Cincinnati Public Library, Recreation Commission, Board of Health, and American Heart Association in the development of a public education program on cardiovascular health during adolescence.

The division offers three fellowship training programs. The Adolescent Medicine Fellowship, directed by Dr. Spigarelli, is designed for physicians who are Board certified/eligible in pediatrics, internal medicine, and/or family practice. The Adolescent Research Fellowship, directed by Dr. Kahn, is designed for physicians and post-doctoral candidates interested in academic research careers. The Pediatric/Adolescent Gynecology Fellowship, directed by Dr. Hillard, provides training for Board certified/eligible obstetrician-gynecologists.

Research within the division focuses on sexually transmitted infections (Drs. Kahn and Huppert), biobehavioral health and development (Drs. Dorn and Biro), approaches to pelvic pain (Dr. Hillard), and health outcomes (Dr. Britto). In her role as Director of Research, Dr. Dorn is responsible for strengthening and monitoring the research environment within the division. This involves supervising research staff; identifying funding opportunities; improving the efficiency and effectiveness of grant preparation; collaborating with programs both within and outside CCHMC; and monitoring all projects involving the patient population or resources of the division.

HIGHLIGHTS

The division has experienced continued growth in its clinical volume and research productivity over the past seven years. Between FY99 and FY06, outpatient visits to the Teen Health Center increased from 7,856 to

20,538 per year and inpatient encounters increased from 171 to 4,522 per year. There have been continued, comprehensive efforts to improve clinical efficiency, effectiveness, and reliability in both the Teen Health Center and Adolescent Inpatient Service. Clinical improvement efforts have included expansion of mental health consultation services in the Teen Health Center; medical care of psychiatric inpatients at the Main Hospital and College Hill; development of a collaborative, interagency model for the care of incarcerated youth; and implementation of improvement strategies in the Teen Health Center and to the Adolescent Inpatient Service. The Division of Adolescent Medicine, working with the Division of General and Community Pediatrics, and the Combined Internal Medicine/Pediatrics Program, expanded the General Inpatient Services to include adolescent patients and their families.

The division is engaging in research and clinical activities at the cutting edge of practice. Between FY99 and FY06, the number of scientific publications have increased from 25 in FY99 to 47 in FY06. Dr. Jessica Kahn has been working on research that includes clinical models of vaccine delivery for the newly-approved HPV vaccine. Exposure to urogenital human papillomavirus (HPV) is nearly ubiquitous in young adults. The vaccine holds the promise to modify the acquisition and natural history of HPV urogenital disease, such as prevention of genital warts, cervical dysplasia, and carcinoma of the cervix. However, the optimal age of vaccine administration is before the initiation of sexual intercourse. Among several issues involving HPV natural history and acquisition, Dr. Kahn has been studying provider and parent acceptance.

Dr. Lesley Breech has joined the Colorectal Center for Children, the only pediatric colorectal center in the world. Working with other world-class members of the interdisciplinary team, she provides gynecologic care for children and adolescents with complex colorectal and genitourinary conditions. In addition to the clinical services, the program offers professional training opportunities.

Dr. Paula Braverman has been serving as the Medical Director at the Hamilton County Youth Center. Working with the center and several community organizations, she developed a pilot program that utilized an evidence-based multi-systemic therapy in a population of youth who completed a local residential program, to try to prevent recidivism. The approaches in this program have been used to help the juvenile court proceed with other mental health/substance abuse collaborations in Hamilton County.

TRAINING

Jennifer Hillman, MD	PL I	Cincinnati Children's Hospital
Kanti Ford, MD	PL II	King Drew Medical Center, Los Angeles
Tanya Kowalczyk Mullins	PL II	Vanderbilt Children's Hosp, Nashville
Reginald Ewing, MD	PL III	Naval Medical Center, San Diego
Giselle Schneider, MD	PL III	Children's Hosp Sinai, Baltimore

GRANTS, CONTRACTS AND INDUSTRY AGREEMENTS

Grant and Contract Awards	Annual Direct/Project Period	Direct
Biro, F		
Puberty and Cancer Initiation: Environment, Diet and Obesity National Institutes of Health (University of Cincinnati subcontract)		
U01 ES 012770	09/29/03 – 07/31/10	\$273,773/\$1,904,529
Genetic Epidemiology of Energy Metabolism in Black Girls National Institutes of Health (University of New Mexico subcontract)		
R01 HL 066070	05/01/01 – 04/30/07	\$90,717/\$767,661
Britto, M		
Evaluation of Pediatric Patient Portals National Institutes of Health		
F38 LM 008876	09/01/05 – 08/31/07	\$119,334/\$241,994
University of Cincinnati Clinical Curriculum Award National Institutes of Health		
K30 RR0 922273	08/19/05 – 07/31/10	\$383,445

Dorn, L		
Smoking and Metabolic Complications in Adolescent Girls		
National Institutes of Health		
R01 DA 016402	02/01/04 – 01/31/09	\$454,671/\$2,006,939
Endocrine Changes and Treatment of Conduct Problems		
National Institutes of Health		
R01 NR 007615	09/15/03 – 06/30/08	\$302,812/\$1,435,122
Huppert, J		
Rapid Trichomonas Test: A Teen STI Prevention Strategy		
National Institutes of Health		
K23 AI 063172	07/01/05 – 06/30/10	\$116,500/\$582,500
Kahn, J		
Human Papillomavirus Testing in Adolescents		
National Institutes of Health		
K23 AI 050923	04/01/02 – 03/31/07	\$115,750/\$578,750
Cancer Prevention Behaviors in Adolescents		
American Cancer Society (The Channing Laboratory subcontract)		
	01/01/04 – 12/31/07	\$42,029/\$160,976
Braverman, P		
Child and Family Health Services - Adolescent Medicine Program		
Ohio Department of Health (Hamilton County Children and Family First Council subcontract)		
S31000-A	07/01/00 – 06/30/06	\$132,416/\$779,256
	Current Year Direct	\$2,031,447
Service Collaborations		
Braverman, P		
Hamilton County Juvenile Court	01/01/06 – 12/31/07	\$1,231,604
United Way & Community Chest	01/01/06 – 12/36/06	\$109,000
	Current Year Direct	\$1,340,604
Industry Contracts		
Huppert, J		
Genzyme Corporation		\$8,010
Hillard, P		
Duramed		\$13,475
	Current Year Direct Receipts	\$21,485
	TOTAL	\$3,393,536

Funded Collaborative Efforts

Biro, F

Landmarks in the Progression to Type II Diabetes National Institutes of Health PI: Dolan	09/30/00 – 09/30/05	2%
Bone Mineral Density in Childhood National Institutes of Health PI: Kalkwarf	02/01/02 – 04/30/06	5%
Identifying Female Athletes at High Risk for ACL Injury National Institutes of Health PI: Hewett	09/21/04 – 08/31/09	5%

Dorn, L

Innovative Modeling of Puberty and Substance Use Risk National Institutes of Health PI: Huang	04/10/06 – 12/31/09	16%
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Hillard, P

Tripporelin for Ovary Protection in Childhood Lupus Federal Drug Administration PI: Brunner	09/30/03 – 09/29/06	3%
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PUBLICATIONS

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2. Biro FM. Secular trends in menarche. *J Pediatr* 2005;147(6):725-6.
3. Biro FM. Puberty-Whither goest? *J Pediatr Adolesc Gynecol* 2006;19(3):163-5.
4. Biro FM, Dorn LD. Puberty and adolescent sexuality. *Pediatr Ann* 2005;34(10):777-84.
5. Biro FM, Huang B, Crawford PB, Lucky AW, Striegel-Moore R, Barton BA, Daniels S. Pubertal correlates in black and white girls. *J Pediatr* 2006;148(2):234-40.
6. Biro FM, Khoury P, Morrison JA. Influence of obesity on timing of puberty. *Int J Androl* 2006;29(1):272-7; discussion 286-90.
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8. Short MB, Yates JK, Biro F, Rosenthal SL. Parents and partners: enhancing participation in contraception use. *J Pediatr Adolesc Gynecol* 2005;18(6):379-83.
9. Braverman PK. The office visit. In: Strasburger VC, Brown RT, Braverman PK, Rogers PD, Holland-Hall C, Coupey SM, editors. *Adolescent medicine: a handbook for primary care*. Philadelphia: Lippincott Williams & Wilkins; 2006. p. 13-21.
10. Braverman PK. Urinary tract infection. In: Strasburger VC, Brown RT, Braverman PK, Rogers PD, Holland-Hall C, Coupey SM, editors. *Adolescent medicine: a handbook for primary care*. Philadelphia: Lippincott Williams & Wilkins; 2006. p. 97-103.
11. Braverman PK. Thyroid disease. In: Strasburger VC, Brown RT, Braverman PK, Rogers PD, Holland-Hall C, Coupey SM, editors. *Adolescent medicine: a handbook for primary care*. Philadelphia: Lippincott Williams & Wilkins; 2006. p. 114-22.
12. Braverman PK. Adolescent sexuality and reproductive health. In: Strasburger VC, Brown RT, Braverman PK, Rogers PD, Holland-Hall C, Coupey SM, editors. *Adolescent medicine: a handbook for primary care*. Philadelphia: Lippincott Williams & Wilkins; 2006. p. 211-43.

13. Breech L, Holland-Hall C, Hewitt G. The "well girl" exam. *J Pediatr Adolesc Gynecol* 2005;18(4):289-91.
14. Breech L, Quint EH, Dharamsi N, Sheldon C. Case 2005: Management of vaginal agenesis. *J Pediatr Adolesc Gynecol* 2005 Oct;18(5):359-362.
15. Breech LL, Hillard PJ. Adnexal torsion in pediatric and adolescent girls. *Curr Opin Obstet Gynecol* 2005;17(5):483-9.
16. Brown CM, Kives S, Quint EH, Breech L. Contraception in teens with medical problems. *J Pediatr Adolesc Gynecol* 2005;18(4):293-5.
17. Quint EH, Breech L, Bacon J, Schwandt A. Management quandary. Menstrual issues in a teenager with developmental delay. *J Pediatr Adolesc Gynecol* 2006;19(1):53-5.
18. Arrington-Sanders R, Yi MS, Tsevat J, Wilmott RW, Mrus JM, Britto MT. Gender differences in health-related quality of life of adolescents with cystic fibrosis. *Health Qual Life Outcomes* 2006;4:5.
19. Brunner HI, Taylor J, Britto MT, Corcoran MS, Kramer SL, Melson PG, Kotagal UR, Graham TB, Passo MH. Differences in disease outcomes between medicaid and privately insured children: possible health disparities in juvenile rheumatoid arthritis. *Arthritis Rheum* 2006;55(3):378-84.
20. Dorn LD, Dahl RE, Woodward HR, Biro FM. Defining the boundaries of early adolescence: A user's guide to assessing pubertal status and pubertal timing in research with adolescents. *Appl Devel Sci* 2006 Jan;10(1):30-56.
21. Schiefelbein VL, Susman EJ, Dorn LD. Self-competence mediates earlier and later anxiety in adolescent mothers: A three-year longitudinal perspective. *J Res Adolesc* 2005 Nov;15(4):625-655.
22. Erenthal DB, Hoffman MK, Hillard PJA. *Menstrual disorders: a practical guide*. Philadelphia: American College of Physicians; 2006.
23. Hillard PJ. Oral contraceptives and the management of hyperandrogenism-polycystic ovary syndrome in adolescents. *Endocrinol Metab Clin North Am* 2005;34(3):707-23, x.
24. Hillard PJ. US adolescent pregnancy rates: declining, but more progress is needed: editorial review. *Curr Opin Obstet Gynecol* 2005;17(5):453-5.
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27. Hillard PJ. Consultation with the specialist: dysmenorrhea. *Pediatr Rev* 2006;27(2):64-71.
28. Hillard PJ, Kahn JA. Understanding and preventing human papillomavirus infection during adolescence and young adulthood. *J Adolesc Health* 2005;37(6 Suppl):S1-2.
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37. Kahn JA. Vaccination as a prevention strategy for human papillomavirus-related diseases. *J Adolesc Health* 2005;37(6 Suppl):S10-6.
38. Kahn JA, Bernstein DI. Human papillomavirus vaccines and adolescents. *Curr Opin Obstet Gynecol* 2005;17(5):476-82.
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43. Kahn JA, Hillard PA. What you can do to prevent cervical cancer and other HPV-related diseases, part 2. *Contemp Pediatr* 2006 Apr;23(4):66-74.
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