

# Division of Adolescent Medicine

DIVISION PROFILE	
Number of Faculty	17
Number of Fellows	
Clinical Fellows	4
Research Fellows	2
Number of Other Students (full and part-time)	15
Number of Support Personnel	35
Annual Total Grant Support (direct)	\$1,662,369
Annual Total Industry Contracts (direct)	\$100,239
Number of Peer Reviewed Publications	41
Patient Encounters	
Outpatient	17,583
Inpatient	828

## FACULTY LISTING

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

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

**Paula K. Braverman, MD**, Professor of Pediatrics, Director of 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, Director of Research

**James R. Ebert, MD**, Associate Professor of Pediatrics

**Richard B. Heyman, MD**, Adjunct Professor of Pediatrics

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

**Bin Huang, PhD**, Assistant Professor of Pediatrics

**Jill S. Huppert, MD, MPH**, Instructor of Pediatrics

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

**Corinne Lehmann, MD**, Assistant Professor of Internal Medicine and Pediatrics, Director of Resident/Medical Student Training

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

**Sanjeev Pathak, MD**, Assistant Professor of Psychiatry and Pediatrics

**Joseph L. Rauh, MD**, Emeritus Professor of Pediatrics

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

## STAFF PHYSICIAN LISTING

**Ronna Staley, MD**, patient care

## OVERVIEW

The cornerstones of the Division of Adolescent Medicine are the delivery of evidence-based, family-centered care; the preparation of academic leaders; and research that promotes healthy development and quality care. A hallmark of the division's evolution has been its collaboration across divisions, departments, institutions, and agencies. These collaborative efforts increased in FY04 with the arrival of Dr. Dorn as Director of Research, Dr. Braverman as Director of Community Programs, Dr. Breech in pediatric/adolescent gynecology, and Dr. Ebert in medical-psychiatric liaison.



***Left to Right: M. Britto, F. Biro, G. Slap, J. Kahn, J. Ebert, P. Hillard, L. Mitan, C. Lehmann, J. Huppert, M. Spigarelli, L. Dorn***

Over the past five years, outpatient visits to the division's Teen Health Center have increased from less than 7,000 at the Main Campus to nearly 18,000 at the Main Campus and seven satellites. Special programs include Pediatric/Adolescent Gynecology with three full-time obstetrician-gynecologists; Eating Disorders with five physicians, two registered dietitians, and two therapists; a Diagnostic Clinic; and Pharmacotherapy for the management of psychiatric medications. New collaborative clinical efforts begun during FY04 include a Center for Pediatric Pelvic and Genitourinary Reconstruction staffed by faculty from the Divisions of Urology, Surgery, and Adolescent Medicine and a Medical-Psychiatric Collaborative Care Model in which adolescent medicine sub-specialists provide the medical care for all adolescents hospitalized on the psychiatry service.

The educational activities of the division were reorganized and placed under new leadership in FY04. 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 provides clinical training for Board certified/eligible obstetrician-gynecologists. Residency and Medical Student Training is now directed by Dr. Lehmann, and Continuing Medical Education is directed by Dr. Braverman.

Research constituted a major growth area in FY04, as described below.

## HIGHLIGHTS

Lorah Dorn, PhD, joined the Division of Adolescent Medicine in July 2003 as Director of Research. Dr. Dorn is an established independent investigator whose work explores the links between pubertal physiology, physical health, and mental health. She is Principal Investigator of three research projects funded through NIH R01 grants. The first, Developmental Psychobiology of Premature Adrenarche, is designed to compare mood, behavior, and cognitive function in girls aged 6-11 years with early-onset and on-time manifestations of puberty that are controlled by the adrenal axis. A second study, Smoking and Metabolic Consequences in Adolescent Girls, examines the effects of pubertal timing, cigarette smoking, depression, and anxiety on reproductive and bone health in a cohort of subjects aged 11-17 years. The study also examines the causal direction of the smoking-depression association that has been observed during adolescence. The third study, Endocrine Changes and Treatment of Conduct Problems, follows children and adolescents who previously received treatment for behavioral disorders as part of an NIH randomized clinical trial. The study explores the hormonal effects of initial and booster treatment for conduct disorders.

In her role as Director of Research, Dr. Dorn is responsible for strengthening and monitoring the research environment within the Division of Adolescent Medicine. This involves recruiting and supervising research staff; helping investigators identify funding opportunities; educating investigators and staff about the processes, timelines, and routing of grant applications; improving the efficiency and effectiveness of grant preparation; and reviewing and monitoring all projects involving the patient population or resources of the division.

A research priority during FY04 was the organization and oversight of research recruitment in the Teen Health Center. Our objectives were to assure that providers understood and supported the potential involvement of their patients; adolescents and parents were fully informed of research opportunities; and disruptions in clinical flow and training were minimized. To meet these objectives, a recruitment protocol was developed for the Teen Health Center. The process begins with joint review of the candidate study by the Research Director and Clinical Services Director. If approved at this level, the proposal is then circulated to all attending physicians for feedback and recommendations.

Once approved by the attending physicians, recruitment begins with the help of three strategies. First, information about the study is added to an adolescent-friendly binder that describes the purpose of clinical research; emphasizes the independence of clinical research from clinical care; provides a one-page description of each study with its eligibility criteria; and encourages the interested adolescent to take a printed index card that summarizes the study and provides contact information. Second, flyers about the study are posted in the Clinical Conference Room where all clinicians in the Teen Health Center congregate. Third, a 2-3 line synopsis of the study is added to a pocket-size laminated card that lists all studies seeking to recruit subjects from the Teen Health Center. Fourth, 1-2 designated recruiters are stationed in the Clinical Conference Room during all clinical sessions to answer questions and/or contact enrollment coordinators. There currently are eight active studies open to patients of the Teen Health Center. Recruitment has been active, and comments from patients and parents indicate interest in the research and comfort with the process.

## TRAINING

Justina Padgett, PhD	II	University of Houston
Reginald Ewing, MD	IV	Naval Medical Center, San Diego
Giselle Weller, MD	IV	Children's Hosp Sinai, Baltimore
Cathleen Steinegger, MD	V	Cincinnati Children's Hosp Med Ctr
Kristin Rager, MD	VI	Med College of South Carolina
Jill Huppert, MD, MPH	VIII	Metro Health Med Ctr, Cleveland

## GRANTS, CONTRACTS AND INDUSTRY AGREEMENTS

<b>Grant and Contract Awards</b>	<b>Annual Direct/Project Period Direct</b>
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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	\$289,556/\$1,859,269
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Braverman, P

**The Generalizability of HIV Risk Reduction Strategies**

National Institutes of Health (University of Pennsylvania subcontract)

	09/01/03 – 08/31/04	\$6,841
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Britto, M

**Primary Health Care Preferences of Adolescents with Chronic Conditions**

Robert Wood Johnson Foundation

039181	07/01/00 – 06/30/05	\$60,000/\$240,000
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Dorn, L		
<b>Smoking and Metabolic Complications in Adolescent Girls</b>		
National Institutes of Health R01 DA 016402	02/01/04 – 01/31/09	\$359,839/\$2,017,881
<b>Physiology of Puberty and Antisocial Behavior in Youth</b>		
National Institutes of Health (Penn State University subcontract) R01 MH 58393	07/01/03 – 01/31/05	\$11,454
<b>Endocrine Changes and Treatment of Conduct Problems</b>		
National Institutes of Health R01 NR 07615	09/15/03 – 06/30/08	\$266,799/\$1,435,122
<b>Developmental Psychobiology of Premature Adrenarche</b>		
National Institutes of Health R01 MH 059892	07/01/03 – 04/30/05	\$261,453/\$548,687
Huppert, J		
<b>Urinary Symptoms in Adolescent Females: STI or UTI</b>		
National Institutes of Health R03 AI 054616	04/01/03 – 03/31/05	\$50,000/\$100,000
<b>Vulvar Ulcerations in Young Adolescent Females</b>		
American College of Obstetricians and Gynecologists 07/01/03 – 06/30/04		\$15,000
Kahn, J		
<b>Human Papillomavirus Testing in Adolescents</b>		
National Institutes of Health K23 AI 50923	04/01/02 – 03/31/07	\$115,750/\$578,750
<b>Cancer Prevention Behaviors in Adolescents</b>		
American Cancer Society (The Channing Laboratory subcontract) 01/01/04 – 12/31/07		\$37,818/\$160,976
Kollar, L		
<b>Child and Family Health Services - Adolescent Medicine Program</b>		
Ohio Department of Health (Hamilton County Children and Family First Council subcontract) S31000-A	07/01/00 – 06/30/05	\$130,359/\$640,475
Kraus, C		
<b>Abstinence until Marriage: Postponing Sexual Involvement</b>		
Ohio Department of Health (Healthy Visions subcontract) 10/01/03 – 09/30/04		\$50,000
Schaffzin, J		
<b>Physicians Perceptions of Barriers to Adolescent STD Testing</b>		
Ambulatory Pediatrics Association 07/01/03 – 06/30/04		\$7,500
<b>Current Year Direct</b>		<b>\$1,662,369</b>

### Industry Contracts

Huppert, J		
Genzyme Corporation		\$21,314

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Mitan, L

Ortho-McNeil Pharmaceuticals, Inc.

\$78,925

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**Current Year Direct Receipts**

**\$100,239**

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**TOTAL**

**\$1,762,608**

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### Funded Collaborative Efforts

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Biro, F

Landmarks in the Progression to Type II Diabetes

National Institutes of Health

PI: Dolan 09/30/00 – 08/30/05

2%

Genetic Epidemiology of Energy Metabolism in Black Girls

National Institutes of Health

PI: Daniels 05/01/01 – 04/30/05

15%

Effects of Pregnancy on Adolescent Growth and Health

National Institutes of Health

PI: Daniels 05/01/01 – 04/30/05

5%

Bone Mineral Density in Childhood

National Institutes of Health

PI: Kalkwarf 02/01/02 – 04/30/06

5%

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Hillard, P

Pediatric Bipolar Collaborative Moods Stabilizers Trials

National Institutes of Health

PI: Kowatch 09/01/00 – 08/31/04

6%

Tripporelin for Ovary Protection in Childhood Lupus

Federal Drug Administration

PI: Brunner 09/30/03 – 09/29/06

3%

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## PUBLICATION

1. **Adams Hillard PJ**. When should you induce amenorrhea? [Online] In: Patient Care for the Nurse Practitioner. 2003(July). Available: <http://www.patientcarenp.com>
2. Deitch HR, Huppert J, **Adams Hillard PJ**. Unusual vulvar ulcerations in young adolescent females. J Pediatr Adolesc Gynecol 2004;17(1):13-6.
3. Huppert JS, **Adams Hillard PJ**. Sexually transmitted disease screening in teens. Curr Womens Health Rep 2003;3(6):451-8.
4. **Biro FM**. Body morphology and its impact on adolescent and pediatric gynecology, with a special emphasis on polycystic ovary syndrome. Curr Opin Obstet Gynecol 2003;15(5):347-51.
5. **Biro F**, Workowski K, Blythe MJ, Lara-Torre E. NASPAG/JPAG Roundtable Discussion Annual Clinical Meeting 2003-Philadelphia, PA; Sexually Transmitted Diseases (STD) Treatment Guidelines 2002. J Pediatr Adolesc Gynecol 2004;17(2):143-6.
6. Cotton S, Mills L, Succop PA, **Biro FM**, Rosenthal SL. Adolescent girls' perceptions of the timing of their sexual initiation: "Too young" or "just right"? J Adolesc Health 2004;34(5):453-8.
7. Mrus JM, **Biro FM**, **Huang B**, Tsevat J. Evaluating adolescents in juvenile detention facilities for urogenital chlamydial infection: Costs and effectiveness of alternative interventions. Arch Pediatr Adolesc Med 2003;157(7):696-702.

8. Padgett J, **Biro FM**. Different shapes in different cultures: body dissatisfaction, overweight, and obesity in African-American and caucasian females. *J Pediatr Adolesc Gynecol* 2003;16(6):349-54.
9. Short MB, Succop PA, Mills L, Stanberry LR, **Biro FM**, Rosenthal SL. Non-exclusivity in adolescent girls' romantic relationships. *Sex Transm Dis* 2003;30(10):752-5.
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12. Sherrow G, Ruby T, **Braverman PK**, Bartle N, Gibson S, Hock-Long L. Man2Man: A promising approach to addressing the sexual and reproductive health needs of young men. *Perspect Sex Reprod Health* 2003;35(5):215-9.
13. Johnson MA, **Breech LL**. Management quandary. Acute ovarian torsion. *J Pediatr Adolesc Gynecol* 2003;16(4):253-5.
14. Bonny AE, **Britto MT, Huang B, Succop P, Slap GB**. Weight gain, adiposity, and eating behaviors among adolescent females on depot medroxyprogesterone acetate (DMPA). *J Pediatr Adolesc Gynecol* 2004;17(2):109-15.
15. **Britto MT**, Kotagal UR, Chenier T, Tsevat J, Atherton HD, Wilmott RW. Differences between adolescents' and parents' reports of health-related quality of life in cystic fibrosis. *Pediatr Pulmonol* 2004;37(2):165-71.
16. Bucuvalas JC, **Britto M**. Health-related quality of life after liver transplantation: It's not all about the liver. *J Pediatr Gastroenterol Nutr* 2003;37(2):106-8.
17. Byczkowski TL, Kotagal UR, **Britto MT**, Wilmott RW. Perceptions of value of routine care among patients with cystic fibrosis and their families. *Pediatr Pulmonol* 2004;37(3):210-6.
18. Conway E, Schoettker PJ, Rich K, Moore A, **Britto MT**, Kotagal UR. Empowering respiratory therapists to take a more active role in delivering quality care for infants with bronchiolitis. *Respir Care* 2004;49(6):589-99.
19. Johnston JA, Yi MS, **Britto MT**, Mrus JM. Importance of organ dysfunction in determining hospital outcomes in children. *J Pediatr* 2004;144(5):595-601.
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21. Rosen DS, Blum RW, **Britto M**, Sawyer SM, Siegel DM. Transition to adult health care for adolescents and young adults with chronic conditions: Position paper of the Society for Adolescent Medicine. *J Adolesc Health* 2003;33(4):309-11.
22. Tivorsak TL, **Britto MT**, Klostermann BK, Nebrig DM, **Slap GB**. Are pediatric practice settings adolescent friendly? An exploration of attitudes and preferences. *Clin Pediatr* 2004;43(1):55-61.
23. Weiland J, Schoettker PJ, Byczkowski T, **Britto MT**, Pandzik G, Kotagal UR. Individualized daily schedules for hospitalized adolescents with cystic fibrosis. *J Pediatr Health Care* 2003;17(6):284-9.
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26. Hertweck P, **Hillard PJ**, Bacon J, Gold M. Toolkit for adolescents. *J Pediatr Adolesc Gynecol* 2004;17(3):199-203.

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31. Forcier M, Patel R, **Kahn JA**. Pediatric residents' attitudes and practices regarding adolescent dating violence. *Ambul Pediatr* 2003;3(6):317-23.
32. **Kahn J**. Advances in HPV protection and testing. *The Source* (Newsletter of the Harvard Center for Cancer Prevention) 2003/2004;10(2):4.
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34. **Kahn JA**. Self-testing for human papillomavirus using a vaginal swab: placing prevention of cervical cancer in the patient's hands. *Ann Oncol* 2004;15(6):847-9.
35. **Kahn JA, Hillard PA**. Human papillomavirus and cervical cytology in adolescents. *Adolesc Med Clin* 2004;15:301-21.
36. Wimberly YH, **Kahn JA**, Kollar LM, **Slap GB**. Adolescent beliefs about infertility. *Contraception* 2003;68(5):385-91.
37. **Mitan LA**. Menstrual dysfunction in anorexia nervosa. *J Pediatr Adolesc Gynecol* 2004;17(2):81-5.
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