Adolescent Medicine

Division Photo

First Row: J. Kahn, L. Dorn, M. Britto, L. Breech, J. Hillman; Second Row: L. Widdice, F. Biro, J. Huppert, L. Ayensu-Coker

Division Data Summary

Research and Training Details

<table>
<thead>
<tr>
<th>Description</th>
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<tbody>
<tr>
<td>Number of Faculty</td>
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<td>Number of Research Fellows</td>
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Clinical Activities and Training

<table>
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Significant Publications

Previous studies in adults have shown that depressed women, in particular, are more likely to have osteoporosis or that there is a negative association with depression and bone density. Further, in adult and lower animal studies smoking has been shown to have a negative impact on bone. In a cohort of healthy pubertal age girls we show for the first time that there is a negative association of symptoms of anxiety and/or depression with measures of BMD and BMC. The association varies depending upon smoking status of the girls. During puberty adolescent girls attain over 50% of bone mass. Thus this period is crucial for developing maximal bone bank in order to decrease the likelihood of osteoporosis or fractures. Our longitudinal follow-up will be important to determine mechanisms impacting this association.

This editorial investigates the interaction between genetic traits; contemporary diet, activity, and environmental exposures; and pubertal maturation and reproductive factors in young women. A growing list of chemicals have been identified as potential endocrine disruptor chemicals (EDCs). These EDCs interact with dietary intake, changes in activity levels, and genetic programming (such as the “thrifty phenotype”), leading to earlier maturation of girls. The editorial also investigates the impact of earlier maturation on contemporary girls.

Describes innovative models at several leading pediatrics programs to enhancing career flexibility, work life balance and productivity of research intensive junior faculty.

The main implication of this study is that our findings support and expand upon the CDC's recommendation to provide additional TV testing for wet mount negative women. First, when a wet mount is routinely performed, a rapid test for TV can be delayed until after the wet mount is read and it can be performed on the used wet mount swab with no loss of sensitivity. Wet mount followed by rapid test was the most sensitive strategy using two tests (86.4%, CI 75.3 - 93.4%). A stepwise approach using an additional TV test for wet mount-negative women will increase the detection of TV and is recommended for all adolescent women. Secondly, we emphasize that it is important from a public health perspective to screen asymptomatic adolescent women for TV. Further study is needed to assess the degree to which the increased cost of additional TV testing may be balanced by public health benefits.

This was the first study examining pediatricians' intention to recommend HPV vaccines after the vaccines were licensed. We found that intention to administer the vaccine to 11-12 year-old girls, the group targeted for vaccination, was high in this sample of Philadelphia pediatricians. Intention was especially high among providers who were early adopters of new vaccines and who did not have concerns about vaccine safety or efficacy. These results can inform educational initiatives designed to promote clinician recommendations for HPV vaccines.

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**Division Collaboration**

**Collaboration with Asthma Innovation Lab**
**Collaborating Faculty:** Byczkowski, T
Chronic Care Research Group, Center for Innovation in Chronic Disease Health Policy & Clinical Effectiveness (Britto)

**Collaboration with Asthma Research**
**Collaborating Faculty:** Hershey, G
Cincinnati Genomic Control Cohort project (Spigarelli)

**Collaboration with Behavioral Medicine & Clinical Psychology**
**Collaborating Faculty:** Crosby, L
Chronic Care Research Group, Center for Innovation in Chronic Disease Health Policy & Clinical Effectiveness (Britto)
Collaboration with Behavioral Medicine & Clinical Psychology
Collaborating Faculty: Myers, J
Workshop: ADHD, Conduct Disorder, and Oppositional Defiant Disorder (Braverman)

Collaboration with Behavioral Medicine & Clinical Psychology
Collaborating Faculty: Smolyansky, B
ADHD Collaborative (Biro)

Collaboration with Behavioral Medicine & Clinical Psychology
Collaborating Faculty: Smolyansky, B
Workshop: Mood Disorders in Teens (Braverman)

Collaboration with Behavioral Medicine & Clinical Psychology
Collaborating Faculty: Smolyansky, B
Collaboration with The Linder Center re: eating disorders (Biro & Mitan)

Collaboration with Behavioral Medicine & Clinical Psychology
Collaborating Faculty: Crawford, P
Center for Innovation in Chronic Disease Health Policy & Clinical Effectiveness (Britto)

Collaboration with Biomedical Informatics
Collaborating Faculty: Spooner, A
EPIC Implementation Project (Britto)

Collaboration with Biomedical Informatics
Collaborating Faculty: Medvedovich, M
Genomic and Proteomic Biomarkers of Biologic Responses to Exposure grant (Biro)

Collaboration with Biostatistics & Epidemiology
Collaborating Faculty: Huang, B
Innovative Modeling of Puberty and Substance Use Risk (Biro)

Collaboration with Biostatistics & Epidemiology
Collaborating Faculty: Huang, B
Puberty and Cancer Initiation: Environment, Diet and Obesity (Biro)

Collaboration with Biostatistics & Epidemiology
Collaborating Faculty: Huang, B
Smoking and Metabolic Complications in Adolescent Girls (Dorn)

Collaboration with Biostatistics & Epidemiology
Collaborating Faculty: Huang, B
Behavioral and Virologic Impact of HPV Immunization (Kahn)

Collaboration with Biostatistics & Epidemiology
Collaborating Faculty: Morrow, A
Cincinnati Genomic Control Cohort project (Spigarelli)

Collaboration with Cardiology
Collaborating Faculty: Morrison, J
NHLBI Growth & Health Study (Biro)

Collaboration with Career Development
Collaborating Faculty: Degen, S
Fifth ThirdBank/Charlotte R Schmidlapp Women’s Scholars Program (Dorn)

Collaboration with Career Development
Collaborating Faculty: Degen, S
New position as Assistant Chair of Academic Affairs & Faculty Development (Kahn)

Collaboration with Center for Health Care Quality
Collaborating Faculty: Margolis, P  
Outcomes Research Project (Huppert)

Collaboration with Child & Adolescent Psychiatry
Collaborating Faculty: Brown, D  
Workshop: Addressing Issues of Gay, Lesbian, Bisexual, Transgender, and Questioning Youth (Benson, Braverman, & Spigarelli)

Collaboration with Child & Adolescent Psychiatry
Collaborating Faculty: Burger, J; Collins, Y; Nelly, P; Nelson, D; Schappacher, S; Sorter, M  
Workshop: Mood Disorders in Teens (Braverman)

Collaboration with Child & Adolescent Psychiatry
Collaborating Faculty: Sorter, M  
Collaboration with The Linder Center re: eating disorders (Biro & Mitan)

Collaboration with Child & Adolescent Psychiatry
Collaborating Faculty: Sorter, M  
Improving quality care of mental health needs of inpatient adolescents (Biro & Mitan)

Collaboration with Child & Adolescent Psychiatry
Collaborating Faculty: Engel, C  
Psychiatric consultation (all Adolescent Medicine care providers)

Collaboration with Clinical Research Center
Collaborating Faculty: Heubi, J  
Smoking and Metabolic Complications in Adolescent Girls (Dorn)

Collaboration with Clinical Research Center
Collaborating Faculty: Heubi, J  
Smoking and Metabolic Complications in Adolescent Girls (Dorn)

Collaboration with Developmental & Behavioral Pediatrics
Collaborating Faculty: Schonfeld, D  
ADHD Collaborative (Biro)

Collaboration with Emergency Medicine
Collaborating Faculty: Byczkowski, T  
Chronic Care Research Group, Center for Innovation in Chronic Disease Health Policy & Clinical Effectiveness (Britto)

Collaboration with Emergency Medicine
Collaborating Faculty: Fitzgerald, M  
UC medical education grant: A computer-based tool for providing feedback to residents (Lehmann)

Collaboration with Emergency Medicine
Collaborating Faculty: McAneny, C  
Medical Student Scholars Program in Pediatrics; workshop of program at annual COMSEP meeting (Lehmann)

Collaboration with Emergency Medicine
Collaborating Faculty: McAneny, C  
Ad-hoc task force for improvements for medical student communication/IT at CCHMC (Lehmann)

Collaboration with Emergency Medicine
Collaborating Faculty: Reed, J  
A Strategy to Improve STI Testing and Results Notification in Adolescents: Advanced Improvement Methods (Huppert)

Collaboration with Emergency Medicine
Collaborating Faculty: Reed, J  
Center for Point of Care Technologies Research for STDs (Huppert)
Collaboration with Emergency Medicine  
Collaborating Faculty: Reed, J
Outcomes Research Project (Huppert)

Collaboration with Emergency Medicine  
Collaborating Faculty: Vaughn, L
Initiative on Poverty, Justice and Health Elective, and submitted publication regarding program (Lehmann)

Collaboration with Emergency Medicine  
Collaborating Faculty: Vaughn, L
Qualitative study of barriers to care of HIV infected orphans in Southern Africa (Lehmann)

Collaboration with Endocrinology  
Collaborating Faculty: Backeljauw, P
Discussions re: a center for treatment of patients with adrenogenital disorders (Ayensu-Coker)

Collaboration with Endocrinology  
Collaborating Faculty: Backeljauw, P; Rose, S
Young Adults with Turner Syndrome (Pediatric & Adolescent Gynecology Team)

Collaboration with Endocrinology  
Collaborating Faculty: Backeljauw, P; Rutter, M
Disorders of Sexual Development Group (Pediatric & Adolescent Gynecology Team)

Collaboration with Gastroenterology  
Collaborating Faculty: Denson, L
Metabolic Consequences of Substance Use in Adolescent Girls (Dorn)

Collaboration with Gastroenterology, Hepatology and Nutrition, & General Clinical Research Center  
Collaborating Faculty: Heubi, J
Puberty and Cancer Initiation: Environment, Diet and Obesity (Biro)

Collaboration with Gastroenterology, Hepatology and Nutrition, & General Clinical Research Center  
Collaborating Faculty: Heubi, J
Clinical Translational Sciences Award (Spigarelli)

Collaboration with General & Community Pediatrics  
Collaborating Faculty: Brinkman, W
Chronic Care Research Group, Center for Innovation in Chronic Disease Health Policy & Clinical Effectiveness (Britto)

Collaboration with General & Community Pediatrics  
Collaborating Faculty: Copeland, K
Behavioral and Virologic Impact of HPV Vaccines (Kahn)

Collaboration with General & Community Pediatrics  
Collaborating Faculty: Guiot, A; Klein, M; Peltier, C
Ad-hoc task force for improvements for medical student communication/IT at CCHMC (Lehmann)

Collaboration with General & Community Pediatrics  
Collaborating Faculty: Kalkwarf, H
Bone Mineral Density in Childhood (Biro)

Collaboration with General & Community Pediatrics  
Collaborating Faculty: Kalkwarf, H
Puberty and Cancer Initiation: Environment, Diet and Obesity (Biro)
Collaboration with General & Community Pediatrics
Collaborating Faculty: Kalkwarf, H
Smoking and Metabolic Complications in Adolescent Girls (Dorn)

Collaboration with General & Community Pediatrics
Collaborating Faculty: Kalkwarf, H
Metabolic Consequences of Substance Use in Adolescent Girls (Dorn)

Collaboration with General & Community Pediatrics
Collaborating Faculty: Vossmeier, M
General Inpatient Service (GIS) (Biro)

Collaboration with Health Policy & Clinical Effectiveness
Collaborating Faculty: Kotagal, U
Center for Innovation in Chronic Disease Health Policy & Clinical Effectiveness; EPIC Implementation Project (Britto)

Collaboration with Hematology/Oncology
Collaborating Faculty: Burns, K; Pereutesis, J
Cancer survivorship and fertility preservation collaboration (Ayensu-Coker)

Collaboration with Hematology/Oncology
Collaborating Faculty: Mullins, E
Young Women with Bleeding Disorders Program (Ayensu-Coker)

Collaboration with Hematology/Oncology
Collaborating Faculty: Wells, S
Mentor, Building Interdisciplinary Careers in Women's Health (BICWH) (Widdice)

Collaboration with Hematology/Oncology
Collaborating Faculty: Wells, S
Mentor, Building Interdisciplinary Careers in Women's Health (BICWH) (Widdice)

Collaboration with Hereditary Cancer Program
Collaborating Faculty: Rushman, J
Puberty and Cancer Initiation: Environment, Diet and Obesity (Biro)

Collaboration with House Staff
Collaborating Faculty: Gonzalez, J; Mallory, M
Medical student and resident education (Lehmann)

Collaboration with Human Genetics
Collaborating Faculty: Hopkin, R; Saal, H
Disorders of Sexual Development Group; Discussions re: a center for treatment of patients with adrenogenital disorders (Breech)

Collaboration with Infectious Diseases
Collaborating Faculty: Bernstein, D
Mentor, Vaccine & Treatment Evaluation Unit (VTEU) grant; VTEU Network (Spigarelli)

Collaboration with Infectious Diseases
Collaborating Faculty: Bernstein, D
Behavioral and Virologic Impact of HPV Vaccines (Kahn)

Collaboration with Infectious Diseases
Collaborating Faculty: Bernstein, D
Mentor, Building Interdisciplinary Careers in Women's Health (BICWH) (Widdice)

Collaboration with Infectious Diseases
Collaborating Faculty: Brady, R
A Pharmacokinetic/Pharmacodynamic and Safety Evaluation of Tamiflu (Spigarelli)
Collaboration with Infectious Diseases
Collaborating Faculty: Brady, R
Rotation of fellows through the pediatric HIV clinic. Provide related lectures (Lehmann)

Collaboration with Mayerson Center
Collaborating Faculty: Makaroff, K
Collaboration re: guidelines for non-occupational exposure of HIV (Lehmann)

Collaboration with Pathology & Laboratory Medicine
Collaborating Faculty: Mortensen, J
Center for Point of Care Technologies Research for STDs; Rapid Trichomonas Tests: A Teen STI Prevention Strategy (Huppert)

Collaboration with Nursing
Collaborating Faculty: Ekstrand, R
A Strategy to Improve STI Testing and Results Notification in Adolescents: Advanced Improvement Methods (Huppert)

Collaboration with Pastoral Care
Collaborating Faculty: Grossoehme, D
Chronic Care Research Group, Center for Innovation in Chronic Disease Health Policy & Clinical Effectiveness (Britto)

Collaboration with Pediatric Surgery
Collaborating Faculty: Levitt, M; Pena, A
Colorectal Center for Children (Breech)

Collaboration with Pediatric Surgery
Collaborating Faculty: Inge, T
Provides gynecological and reproductive health consultation as part of the pre-operative bariatric surgery evaluation (Surgical Weight Loss Program for Teens (SWLPT)) (Pediatric & Adolescent Gynecology Team & Hillman)

Collaboration with Pediatric Urology
Collaborating Faculty: Alam, S; DeFoor, R; Minevich, E; Noh, P; Reddy, P; Sheldon, C; Traxel, E
Disorders of Sexual Development Group; Urogenital Center (Breech)

Collaboration with Pediatric Urology
Collaborating Faculty: DeFoor, W
Research on vesicoureteral reflux (Spigarelli)

Collaboration with Personalized & Predictive Medicine
Collaborating Faculty: Kovacic, M
R01 application on HPV in Fanconis anemia patients (Widdice)

Collaboration with Preventive Cardiology
Collaborating Faculty: Urbina, E
Cardiovascular risk factors (Biro)

Collaboration with Pulmonary Medicine
Collaborating Faculty: Seid, M
Chronic Care Research Group, Center for Innovation in Chronic Disease Health Policy & Clinical Effectiveness (Britto)

Collaboration with Rheumatology
Collaborating Faculty: Glass, D
Cincinnati Genomic Control Cohort project (Spigarelli)

Collaboration with Rheumatology
Collaborating Faculty: Thornton, S
SURF and medical student scholars program in Pediatrics (Lehmann)
Collaboration with Sports Medicine Biodynamics Center

Collaborating Faculty: Hewett, T
Identifying Female Athletes at High Risk for ACL Injury (Biro)

Faculty Members

Frank Biro, MD, Professor Clinical; Rauh Chair of Adolescent Medicine; Director, Division of Adolescent Medicine; Member, Search Committee, Director of Clinical Epidemiology & Biostatistics
  Research Interests: Environmental influences on body composition and pubertal timing; impact of peripubertal changes on risk factors for breast cancer.

Leslie Ayensu-Coker, MD, Assistant Professor Clinical
  Research Interests: Hormone replacement therapy in ovarian insufficiency; conditions of sexual differentiation; adrenogenital disorders; fertility preservation in patients receiving chemotherapy; disorders of sexual deve

Paul Benson, MD, MPH, Assistant Professor Clinical; Co-Director, GLBTA, CCHMC; Faculty Assessor, University of Cincinnati Annual Cincinnatus Scholarship Competition
  Research Interests: Environmental influences on body composition and pubertal timing; impact of peripubertal changes on risk factors for breast cancer.

Paula Braverman, MD, Professor Clinical; Director of Community Programs, Division of Adolescent Medicine
  Research Interests: Program development of community programs, including "FUN & FIT" and the Postponing Sexual Involvement (PSI) Program

Lesley Breech, MD, Associate Professor Clinical; Section Leader, Section of Pediatric & Adolescent Gynecology
  Research Interests: Outcomes after surgical treatment of genital anomalies; management of young women with bleeding disorders.

Maria Britto, MD, MPH, Professor; Director, Center for Innovation in Chronic Care; Assistant Vice-President, Chronic Care Programs; Co-Director, Clinical Epidemiology and Clinical Effectiveness Track of the Masters of Science in Clinical Research; Faculty Lead, EPIC-Quality Integration Initiative; Faculty Lead, Patient Portals; Co-Leader, Advanced Improvement Methods Course
  Research Interests: Health care access for GLBT adolescents; obesity treatment

Lorah Dorn, PhD, Professor; Director of Research, Division of Adolescent Medicine; Chairman, Fifth Third Bank/Charlotte R Schmidlapp Womens Scholars Program
  Research Interests: Behavioral endocrinology with respect to puberty and adolescence

Jennifer Hillman, MD, Assistant Professor Clinical
  Research Interests: The association of anxiety, depression, and obesity among adolescent girls; hormonal contraception and polycystic ovary syndrome among severely obese adolescent females.

Jill Huppert, MD, MPH, Assistant Professor Clinical
  Research Interests: Reduction of the negative health consequences of STIs, especially Trichomoniasis, in young women.

Jessica Kahn, MD, MPH, Associate Professor; Director of Research Training, Division of Adolescent Medicine; Assistant Chair for Academic Affairs and Faculty Development
  Research Interests: Cervical cancer prevention, human papillomavirus (HPV) in adolescents, HPV and other adolescent vaccines, HIV in adolescents, global delivery of HPV vaccines

Corinne Lehmann, MD, Associate Professor Clinical; Director, Medical Student & Resident Rotations; Director, Medical Students Scholar Program in Pediatrics; Medical Director, Special Care Clinic (for pediatric HIV patients)
  Research Interests: Medical education of physician residents

Laurie Mitan, MD, Associate Professor Clinical; Director, Eating Disorders Program, Division of Adolescent Medicine
  Research Interests: Treatment issues in patients with eating disorders

Joseph Rauh, MD, Professor Clinical; Professor Emeritus

Michael Spigarelli, MD, PhD, Assistant Professor Clinical; Director, Adolescent Medicine Fellowship; Director, Clinical Trials Office
  Research Interests: Understanding how pubertal and nutritional status affect pharmacokinetics, pharmacodynamics, and pharmacogenetics in adolescents

Lea Widdice, MD, Assistant Professor Clinical
  Research Interests: Epidemiology of HPV and effects of HPV vaccination

Clinical Staff Members

Susan Brown, MD
Trainees

- Kenisha Campbell, MD, 1st yr, University of Rochester Medical Center
- Michele Dritz, MD, 2nd yr, St Louis Children's Hospital
- Jason Mehrtens, MD, 2nd yr, Gen Leonard Wood Army Community Hospital
- Tanya Mullins, MD, 2nd yr, Medical Univ of South Carolina
- Sonya Negriff, PhD, 2nd yr, Univ of Southern California
- Lisa Lam Park, MD, 3rd yr, Georgetown University
- Chad Shenk, PhD, 2nd yr, Univ of Rochester Medical Center
- Akilah Weber-Lashore, MD, 1st yr, John H Stroger Hospital of Cook County, Chicago IL

Significant Accomplishments

BIRCWH Fellowship

The Building Interdisciplinary Research Careers in Women’s Health (BIRCWH) award supports the research career development of junior faculty members who have recently completed clinical training or postdoctoral fellowships, and who are commencing basic, translational, or clinical research, and/or health services research relevant to women's health. The Division of Adolescent Medicine is proud to have two scholars currently in this program, Drs Lea Widdice and Jennifer Hillman.

Dr. Widdice has been exploring the transmission of HPV between sexually active couples and the reasons for the development of persistent infections. Persistent HPV infections are the known cause of cervical cancer in women. She is also examining the immunogenicity of the HPV vaccine when the three doses are given at intervals not recommended by clinical guidelines, and reasons why patients do not get the vaccine doses at the recommended times, a component of Dr. Jessica Kahn’s HPV project.

Dr. Hillman is exploring the relationship between anxiety and depressive disorders with obesity among school-age and adolescent girls. She is evaluating behavioral and neuroendocrine factors that may represent shared pathophysiological mechanisms in anxiety/depressive disorders and obesity. She is examining two ongoing longitudinal studies of school-age and adolescent girls within the Division, Health Behavior Study (L Dorn, PI) and Growing Up Female Study (F Biro, PI).

Center for Innovation in Chronic Disease Care

The mission of the Center for Innovation in Chronic Disease Care, under the direction of Maria Britto, MD, MPH, is to improve outcomes for children and adolescents with chronic illnesses by accelerating the development of effective care
Division Publications


42. Tuchman LK, Slap GB, Britto MT. Transition to adult care: experiences and expectations of adolescents with a chronic illness. Child Care Health Dev. 2008; 34: 557-63.

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### Grants, Contracts, and Industry Agreements

#### Grant and Contract Awards

| BIRO, F | Puberty and Cancer Initiation: Environment Diet and Obesity | National Institutes of Health (University of Cincinnati) |
| U01 ES 012770 | 09/29/03 - 07/31/10 | $223,281 / $1,904,529 |

Puberty and Cancer Initiation: Environment Diet and Obesity
National Institutes of Health (University of Cincinnati)
U01 ES 012770 (supplement) 08/01/08 - 07/31/09 $35,844 / $35,844

Genomic and Proteomic Biomarkers of Biologic Responses to Exposure
National Institutes of Health (University of Alabama at Birmingham)
U01 ES 016003 08/15/07 - 05/31/11 $43,880 / $219,800

Exposure Assessment of Biomarkers of Polyfluoroalkyl Compounds in Persons Living in the Ohio River Valley
National Institutes of Health (University of Cincinnati)
R21 ES 017176 08/19/08 - 07/31/10 $12,052 / $24,200

| BRAVERMAN, P | Child and Family Health Services - Adolescent Medicine Program | Ohio Department of Health (Hamilton County Family & Children First Council) |
| S31000-A | 07/01/08 - 06/30/09 | $88,000 / $88,000 |

Postponing Sexual Involvement Youth Development
City of Cincinnati
01/01/08 - 01/14/10 $63,750 / $188,750

| BRITTO, M | Developing Quality Measures to Assess Pediatric Inpatient Respiratory Care | National Institutes of Health (Children's Hosp & Reg Med Ct-Seattle) |
| R01 HL 088503 | 03/01/09 - 02/28/14 | $68,910 / $390,478 |

Metabolic Consequences of Substance Use in Adolescent Girls
National Institutes of Health
R21 DA 025312 05/15/09 - 04/30/11 $150,000 / $275,000

| HILLMAN, J | Cincinnati Interdisciplinary Women's Health Research Training Grant | National Institutes of Health (University of Cincinnati) |
| K12 HD 051953 | 05/01/09 - 07/31/09 | $28,756 / $28,756 |

| HUPPERT, J | Rapid Trichomonas Tests: A Teen STI Prevention Strategy | National Institutes of Health |
| K23 AI 063182 | 07/01/05 - 05/31/10 | $116,500 / $582,500 |

Center for Point of Care Technologies Research for STDs
National Institutes of Health (Johns Hopkins University)
U54 EB 007958 09/30/07 - 06/30/12 $32,178 / $245,624
### STD/HIV Prevention Training Centers
Centers for Disease Control and Prevention (City of Cincinnati Health Department)
04/01/07 - 03/31/09 $22,256 / $43,847

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<th>Grant Number</th>
<th>Start Date - End Date</th>
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<td>ATN Coordinating Center</td>
<td>JKAHN</td>
<td>National Institutes of Health (University of Alabama at Birmingham)</td>
<td>U01 HD 040533</td>
<td>03/01/07 - 02/28/10</td>
<td>$59,213 / $99,029</td>
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<td>Behavioral and Virologic Impact of HPV Immunization</td>
<td>KAHN</td>
<td>National Institutes of Health</td>
<td>R01 AI 073713</td>
<td>01/15/08 - 12/31/12</td>
<td>$383,997 / $1,906,862</td>
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<td>Behavioral and Virologic Impact of HPV Immunization</td>
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<td>National Institutes of Health</td>
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<td>06/19/09 - 09/30/10</td>
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<td>Recommendation of HPV Vaccination Among US Physicians</td>
<td>KAHN</td>
<td>National Institutes of Health (H Lee Moffit Cancer Center &amp; Research Institute)</td>
<td>R01 AI 076440</td>
<td>07/02/08 - 06/30/12</td>
<td>$10,816 / $43,470</td>
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<td>A Pharmacokinetic/Pharmacodynamic and Safety Evaluation of Tamiflu</td>
<td>SPIGARELLI</td>
<td>National Institutes of Health (University of Alabama at Birmingham)</td>
<td>N01 AI 030025</td>
<td>10/01/07 - 07/31/10</td>
<td>$91,538 / $188,691</td>
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<td>Cincinnati Interdisciplinary Women's Health Research Career Training Grant</td>
<td>WIDDICE</td>
<td>National Institutes of Health (University of Cincinnati)</td>
<td>K12 HD 051953</td>
<td>01/01/07 - 07/31/09</td>
<td>$115,020 / $219,126</td>
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**Current Year Direct** $1,555,991

**Industry Contracts**

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<td>Hillard, P</td>
<td>Duramed Research, Inc.</td>
<td>$7,715</td>
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<td>Widdice, E</td>
<td>Merck &amp; Company, Inc.</td>
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**Current Year Direct Receipts** $49,970

**Service Collaborations**

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<td>Braverman, P</td>
<td>Hamilton County Juvenile Court</td>
<td>$953,350</td>
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<td>Kahn, J</td>
<td>World Health Organization</td>
<td>$44,003</td>
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**Current Year Direct** $1,009,353

**Funded Collaborative Efforts**

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<tr>
<td>Biro, F</td>
<td>Identifying Female Athletes at High Risk of ACL Injury</td>
<td>National Institutes of Health</td>
<td>5 %</td>
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<td>Innovative Modeling of Puberty and Substance Use Risk</td>
<td>National Institutes of Health</td>
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<td>Bone Mineral Density in Childhood Study</td>
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