

General and Community Pediatrics

Division Photo



1st row: D Elkeeb, C Gosdin, T DeWitt, J Klein, M Klein, J Motley;
2nd row: R Kahn, K Kerrey, K Yolton, G Szumlas, M Mansour;
3rd row: J Simmons, S Corathers, A Spanier, K Copeland, L Vaughn, P Brady;
4th row: C Larason, AM Fitz, H Kalkwarf, J Castillo;
5th row: J O'Toole, R Baker, Z Samaan, D Boyd;
5th row: A Spooner, E Kirkendall, R Hornung, N Newman;
6th row: M Vossmeier, K Schwenk

Division Data Summary

Research and Training Details

| | |
|-------------------------------------|-------------|
| Number of Faculty | 32 |
| Number of Joint Appointment Faculty | 8 |
| Number of Research Fellows | 2 |
| Number of Support Personnel | 87 |
| Direct Annual Grant Support | \$2,561,408 |
| Peer Reviewed Publications | 27 |

Clinical Activities and Training

| | |
|-----------------------------|--------|
| Number of Clinical Staff | 24 |
| Number of Clinical Fellows | 3 |
| Number of Clinical Students | 230 |
| Inpatient Encounters | 4,362 |
| Outpatient Encounters | 62,302 |

Faculty Members

Thomas DeWitt, MD, Professor ; *Director, Division of General & Community Pediatrics; Associate Chair for Education;*

DIO & Chair, GME Committee

Research Interests: Community-based Research; Medical Education - Clinical Outcomes

Raymond Baker, MD, MEd, Professor Clinical ; *Director, Section of Education; Director, Masters in Medical Education*

Research Interests: Medical Education

Paul Bellet, MD, Professor Emeritus

Omer Berger, MD, Professor Emeritus

Christopher Bolling, MD, Associate Professor Clinical ; *Medical Director, Healthworks*

Research Interests: Obesity

William Brinkman, MD, MEd, Assistant Professor Clinical ; *Decision making*

Research Interests: Decision making; Communication; ADHD

Kristen Copeland, MD, Research Assistant Professor

Research Interests: Obesity prevention in child-care

Emanuel Doyne, MD, Adjunct Professor ; *Director, Section of Community Pediatrics*

Research Interests: Practice based research network

Sheela Geraghty, MD, MS, Research Assistant Professor ; *Director, Center for Breastfeeding Medicine*

Research Interests: Breastfeeding Medicine

Amy Guiot, MD, Adjunct Instructor Clinical

Research Interests: Medical student education and family centered care

Richard Hornung, DrPH, Research Professor ; *Director, Biostatistics and Data Management Core of the Cincinnati Children's Environmental Health Center*

Research Interests: Statistical methods, exposure assessment, hybrid designs

Robert Ingberg, MD, Professor Emeritus

Robert Kahn, MD, MPH, Associate Professor ; *Director, Section of Research*

Research Interests: gene-environment interaction, disparities, asthma, ADHD

Heidi Kalkwarf, PhD, Research Associate Professor ; *Fracture, bone density, exercise interventions*

Melissa Klein, MD, Adjunct Assistant Professor ; *Co Director, PPC & Hopple Street Health Center*

Research Interests: Medical student and resident education; serving the underserved

Bruce Lanphear, MD, MPH, Professor ; *Director, Cincinnati Children's Environmental Health Center*

Kadriye Lewis, EdD, Field Service Assistant Professor ; *Assoc Director, Masters in Medical Education*

Research Interests: Medical education research and literacy

Mona Mansour, MD, MS, Associate Professor Clinical ; *Director, Section of Primary Care Services*

Research Interests: school health, asthma, underserved populations, quality improvement

Christine McHenry, MD, MATS, Adjunct Professor Clinical ; *Chair, Bio-Ethics Committee*

Research Interests: Ethics

Daniel McLinden, EdD, Field Service Assistant Professor

Research Interests: Evaluation, Impact, ROI, Rasch, rating scales, outcome measurement

Stephen Muething, MD, Associate Professor Clinical ; *Clinical Section Director; Assistant Vice President, Patient Safety*

Research Interests: Patient Safety, Reliability, Adverse Events

Christopher Peltier, MD, Adjunct Assistant Professor ; *Associate Director, Section of Community Pediatrics*

Research Interests: Medical student and resident education; community pediatrics

Rebecca Phillips, PhD, Field Service Associate Professor ; *Vice President of Education and Training*

Research Interests: Research libraries, adult learning, and faculty development

Zeina Samaan, MD, Adjunct Assistant Professor ; *Co Director, PPC & Hopple Street Health Center*

Research Interests: Quality Improvement

Robert Siegel, MD, Adjunct Associate Professor ; *Medical Director, CPRG*

Research Interests: Cincinnati Pediatric Research Group

Jeffrey Simmons, MD, Instructor Clinical ; *Associate Director, GIS*

Research Interests: Asthma, Hospitalist, Quality Improvement, Health Services, Family-Centered

Adam Spanier, MD, PhD, MPH, Research Instructor ; *Medical Director, Pediatric Environmental Health Clinic*

Research Interests: Asthma, Environment

Gregory Szumlas, MD, Assistant Professor Clinical

Research Interests: Quality improvement, asthma, health literacy, early literacy

Lisa Vaughn, PhD, Field Service Associate Professor

Research Interests: Cultural competency, Latinos, marginalized populations, community-based participatory research methodology

Michael Vossmeier, MD, Assistant Professor Clinical ; *Director, Hospitalist Section*

Research Interests: High reliability, Situation Awareness, Patient Safety

Karen Wosje, PhD, Research Assistant Professor

Research Interests: Child obesity, bone health, physical activity, nutrition, preschool, child care

Kimberly Yolton, PhD, Research Assistant Professor

Research Interests: Child development, behaviors, and mood

Joint Appointment Faculty Members

Michael Benedict, MD, Assistant Professor Clinical
Internal Medicine

Christine Burrows, MD, Assistant Professor Clinical
Internal Medicine

Patrick Conway, MD, Assistant Professor
Center for Health Policy & Clinical Effectiveness
quality improvement and patient safety

Tiffany Diers, MD, Assistant Professor Clinical
Internal Medicine

Caroline Mueller, MD, Professor Clinical
Internal Medicine

Kieren Phelan, MD, MS, Associate Professor
Center for Health Policy & Clinical Effectiveness

Lisa Simpson, MD, Professor
Center for Health Policy & Clinical Effectiveness

Andrew Spooner, MD, MS, Associate Professor Clinical
Chief Medical Information Officer

Clinical Staff Members

- Kathleen Bain, MD
- Jeanne Beischel, MD
- Deborah Boyd, MD
- Patrick Brady, MD
- Scott Callahan, MD
- Cynthia Delatt, MD
- Dena Elkeeb, MD
- Anne Marie Fitz, MD
- Craig Gosdin, MD
- Gretchen Hartz, MD
- Elizabeth Kelley, MD
- Eric Kirkendall, MD
- Carrie Larason, MD
- Hong Liu, MD
- Deborah Mack, MD
- Jenny Motley, MD
- Mary Beth Pero, MD
- Andrew Poltrack, MD
- Sarah Riddle, MD
- Irina Rybalsky, MD
- Robert Schaengold, MD

- **Denise Somsak, MD**
- **Tracy Tiller, MD**
- **Pamela Williams-Arya, DO**

Trainees

- **Kristen Copeland, MD**, PGY IX, Johns Hopkins University School of Medicine
- **Jeffrey Simmons, MD**, PGY VIII, Cincinnati Children's Hospital Medical Center
- **Tanya Mullins, MD**, PGY VII, Cincinnati Children's Hospital Medical Center
- **Jonathan Castillo, MD**, PGY VI, Cincinnati Children's Hospital Medical Center
- **Sonya Negriff, PhD**, PGY I, University of Southern California

Significant Accomplishments in FY08

Hospitalist Program

The physicians of the pediatric hospitalist program, Generalist Inpatient Service (GIS), provide general pediatric inpatient care to children admitted to Cincinnati Children's Hospital Medical Center. Established as one of the first such services in the country in 1997, the program is responsible for supervision of inpatient pediatric care by resident ward teams at the main campus, direct patient care at the Liberty Township facility, inpatient consultative services for surgical patients, and staffing the General Diagnostic Clinic. In the last fiscal year, more than 4300 children were admitted to the hospitalist service, being referred to the hospitalist service from area pediatricians, family practice physicians, and community health care centers, as well as regional pediatric and community based hospitals. As of August 11, 2008, the hospitalist began to provide direct 24/7 coverage for a 12 bed observation/inpatient unit at the Liberty Township facility, incorporating the same family-centered approach. Over the last 5 years, the hospitalist service and its physicians have been nationally recognized for expertise and leadership in the provision of family-centered care that actively incorporates patients and families into rounds and medical decision-making.

The hospitalist program is led by Dr. Michael Vossmeier, with Drs. Jeffrey Simmons and Craig Gosdin as associate directors. The 23 physicians who comprise the hospitalist service focus on providing high quality, evidence-based and family-centered care to the patients and families. 17 of the 23 hospitalists have either faculty appointments or are working on advanced degrees. The hospitalists have been invited presenters at regional and national academic meetings as well as having published the results of their work in recognized peer-reviewed journals. The program is focused on developing academic hospitalists and initiated this year an academic pediatric hospitalist fellowship. The hospitalist service trains approximately 130-140 medical students and 96 resident physicians per year and is substantially involved with patient safety and quality improvement at Cincinnati Children's Hospital Medical Center in both leadership positions as well as front line work.

Obesity Issues in Child Care Settings

Kristen A. Copeland MD is an Assistant Professor in the Division of General and Community Pediatrics. Her research is directed at preventing childhood obesity, a major and growing public health problem for young children today. Specifically, she is interested in the influence of the child care environment on children's physical activity and diet. Recognizing that 12 million children and 75% of US children between the ages of 3 and 6 are in some form of child care, and that because of the long hours many children spend in child care, their only opportunity for exercise and most of their calories may come from this environment; Dr. Copeland sees great potential public health impact in researching and improving child care nutrition and physical activity environments. Her research, funded by the National Institutes of Health (NIH) and the Robert Wood Johnson Foundation, will identify the key aspects of the child care center environment—such as physical activity policies, amount and design of playground facilities, menu content, and staff attitudes and behaviors—that effectively promote children's physical activity and a balanced dietary intake. The goal of her research is to produce new knowledge that can inform the development of evidence-based policies and practices for child-care centers that promote active play, improve children's diets and foster the development of lifelong healthy habits.

Enhancing Patient/Family Decision-Making

William Brinkman MD MEd is an Assistant Professor in the Division of General and Community Pediatrics. His research is directed at promoting effective partnerships between families and their primary care doctors. Increasingly, the importance of productive interactions between an engaged and activated family and a prepared and proactive practice team is recognized as essential to optimizing health outcomes for children and adolescents with chronic conditions. Dr. Brinkman's initial efforts in this area have focused on engagement of parents of children and adolescents with Attention-Deficit/Hyperactivity Disorder (ADHD). ADHD is a chronic neurobehavioral disorder that results in impairment of

academic, social, and family functioning for 8-14% of the population. While stimulant medication have been show to reduce the symptoms of ADHD, many children stop taking medicine completely or experience extended gaps in treatment. This results in unnecessary suffering for many families. To better understand the needs of families, Dr. Brinkman conducted focus groups and interviews with children and adolescents with ADHD as well as their parents and primary care doctors. Recognizing the need to augment the time-limited efforts of doctors to educate families about ADHD and treatment options, Dr. Brinkman designed a website to support families who are facing treatment decisions for their child that has been recently diagnosed with ADHD. The project was funded by the National Institute of Mental Health. The goal of his ongoing research is to segment the population at risk for poor medication continuity and develop personalized interventions that improve medication continuity among children and adolescents with ADHD.

Significant Publications in FY08

Baker RC, Lewis KO. Online Master's Degree in Education for Healthcare Professionals: Early Outcomes of a New Program. Med Teach. 2007;29(9):987-989.

Conway PH, Cnaan A, Zaoutis T, Henry BV, Grundmeier RW, Keren R. Recurrent Urinary Tract Infections in Children: Risk Factors and Association with Prophylactic Antimicrobials. JAMA 2007; 298:179-86

DeWitt TG. Diversity in Pediatrics: The Challenges and the Opportunity. Ambul Pediatr. 2008; 8:73-6

Froehlich TE, Lanphear BP, Epstein JN, Barbaresi WJ, Katusic SK, Kahn RS. Prevalence, Recognition and Treatment of Attention-Deficit/Hyperactivity Disorder in a National Sample of US Children. Arch Pediatr Adolesc Med 2007;161:857-864.

Muething SE, Kotagal UR, Schoettker PJ, Gonzalez-Del-Ray J, DeWitt TG. Family-Centered Beside Rounds: A New Approach to Patient Care and Teaching. Pediatr 119(4):829-832, 2007.

Division Highlights

Raymond Baker, MD

Dr. Baker has developed and supervised an online pediatric primary care curriculum and a Medical Education Research Group at CCHMC. He is co-director of the Faculty Development program and the director of the Online Master's Degree in Education for Healthcare Professionals which has expanded to over 80 trainees.

William Brinkman, MD

Dr. Brinkman's work focuses on healthcare communication. His recent research has explored how physicians and families interact to make treatment decisions for children with Attention-Deficit/Hyperactivity Disorder (ADHD). In work funded by the National Institute of Mental Health, Dr. Brinkman was the Principal Investigator on a subcontract to develop a web-based decision aid tool to help support families facing ADHD treatment decisions. Dr. Brinkman is currently studying systems that support treatment decisions that are informed by the best evidence as well as family values and preferences.

Patrick Conway, MD

Dr. Conway is currently on leave as Chief Medical Officer in the Office of the Secretary in the Department of Health and Human Services. However, he plans to return to Cincinnati Children's to continue research focused primarily on quality improvement and patient safety at the intersection of health information technology, high reliability science, and practice networks.

Kristen Copeland, MD

Dr. Copeland is studying the ways in which the child care environment influences children's physical activity levels and dietary intake.

Thomas DeWitt, MD

Dr. DeWitt has particularly focused on analysis of preventive services effectiveness and community-based research and education. An additional focus has been on the integration across the division of a multifactor asthma improvement project and its impact on patient outcomes and interactions within the division.

Sheela Geraghty, MD, MS

Dr. Geraghty as the Medical Director of the Cincinnati Children's Center of Breastfeeding Medicine has research interests, funded by the National Institutes of Health, on barriers to successful breastfeeding outcomes.

Amy Guiot, MD

Dr. Guiot has focused on third year pediatric clerkship medical student activities in the inpatient setting.

Richard Hornung, DrPH

Dr. Hornung, as the Director of the Biostatistics and Data Management Core of the Cincinnati Children's Environmental Health Center at the Cincinnati Children's Hospital Medical Center, has focused on statistical methods for epidemiologic research, including survival analysis models, matched case-control studies, hybrid designs, exposure assessment methodology, and also has expanded into outcomes research, quality of life studies, vaccine effectiveness studies, repeated measures analysis using mixed effects models, and evaluation research.

Robert Kahn, MD, MPH

Dr. Kahn's research activity has focused on child health disparities and the contributions of both genes and environment to differences in health outcomes.

Heidi Kalkwarf, PhD

Dr. Kalkwarf's research has focused on the normal patterns of bone acquisition during growth, the consequences of low bone mass in childhood, and the influences of diet and physical activity on bone strength.

Melissa Klein, MD

Dr. Klein's main interests are medical student and resident education and addressing non-medical needs in underserved population, especially through legal advocacy.

Bruce Lanphear, MD, MPH

Dr. Lanphear's research focus is to prevent common diseases and disabilities in children, such as asthma, injuries and ADHD. Initially, his research seeks to quantify the impact of a variety of risk factors from exposures to heavy metals and chemicals, maternal depression and poverty to understand why some children develop learning problems, behavioral problems, injuries or asthma. To accurately quantify the contribution of risk factors, his research tests various ways to measure childrens' exposures using novel biomarkers, parent report or observational surveys. His research also explores how genes impact childrens' susceptibility or resiliency to a variety of environmental risk factors. Finally, Dr. Lanphear attempts to design studies to test the benefits of reducing childrens' exposures to environmental hazards.

Kadriye Lewis, EdD

Dr. Lewis has conducted educational research on issues arising in and related to online, the asynchronous learning, especially in the context of Online Master's Degree program. Dr. Lewis' secondary interest is health literacy.

Mona Mansour, MD, MS

Two primary areas of interest for Dr. Mansour include improving health outcomes of children with asthma, especially children from underserved backgrounds, and school health. Her asthma work has primarily focused on the use of quality improvement methodology in different care environments to improve health outcomes for children with asthma including primary care practices, school based health centers, and within the community health care system.

Daniel McLinden, EdD

Dr. McLinden has focused on the impact on outcomes and the financial ROI of investments in the development of human capital in organizations. Additionally he has pursued objective measurement using Rasch modeling applied rating scales intended to measure outcomes.

Stephen Muething, MD

Dr. Muething's academic pursuit is focused on patient safety in pediatrics. As we make changes to reduce overall rates of harm locally and across organizations, Dr. Muething is partnering with other faculty to study these changes, systematically measure outcomes, and report on results.

Christopher Peltier, MD

Dr. Peltier's academic interest and pursuit is in the area of community-based medical student and resident education. As course director for the resident private practice rotation, he has recently completed developing goals and objectives for the rotation.

Rebecca Phillips, PhD

Dr. Phillips is establishing and studying the role of an education department in an academic health center, using systems thinking, adult learning and development theory, and research library and information science. She is particularly interested in application to faculty development, leader development and mentoring.

Zeina Samaan, MD

Focused on primary care quality improvement, Dr. Samaan has several collaborative/QI projects: improvement of childhood immunization rate; improvement of influenza vaccination rate in high risk pediatric patients; preventing medical errors in primary care setting; development screening and Autism initiative. She also focuses on the use of Electronic Health Records to deliver quality of care; implemented Flu alert using EHR to improve the rate of flu vaccination.

Robert Siegel, MD

Dr. Siegel's academic efforts continue to be through the Cincinnati Pediatric Research Group (CPRG), practice-based research network. This year the CPRG projects have included piloting an education nutritional intervention in toddlers, completion of a low carbohydrate diet intervention in overweight teens and symptom surveillance reporting by community practitioners. We also conducted a feasibility study of elimination of high fructose corn syrup in overweight children.

Jeffrey Simmons, MD

Dr. Simmons' research project, a cohort of children admitted due to an asthma exacerbates, focuses on identifying modifiable factors that predict readmission for asthma. He expects to pilot interventions that address factors identified using quality improvement techniques within the next 18 months. He is also the co-leader of the team focusing on asthma care delivery within the Division of General Pediatrics' Academic Improvement Collaborative.

Adam Spanier, MD, PhD, MPH

Dr. Spanier's research addresses how environmental and genetic risk factors interplay in asthma severity and asthma development and to integrate this knowledge into the improved care for pediatric asthma and prevention of pediatric asthma.

Gregory Szumlas, MD

Dr. Szumlas' academic interests are in quality improvement and literacy. In quality improvement, his efforts have been concentrated on chronic disease management, particularly asthma, using the Chronic Care Model. His interests in literacy include early literacy promotion and health literacy, especially in the application of the concepts of health literacy to chronic asthma management integrating literacy and quality improvement.

Lisa Vaughn, PhD

As a social psychologist, Dr. Vaughn is particularly interested in marginalized populations, especially immigrant families to the U.S. with emphasis on Latinos, and how the socio-cultural context affects the health and well-being of families and children, using qualitative and community-based participatory research methodologies and interdisciplinary collaboration.

Michael Vossmeier, MD

Dr. Vossmeier's academic interests are the development and implementation of highly reliable systems of care especially in the area of patient safety, the use of situation awareness to improve patient safety and patient flow through complex adaptive systems, and the relationship between prior learning experiences and the application of situation awareness.

Karen Wosje, PhD

Dr. Wosje is a nutritional epidemiologist with broad statistical training and experience in physical activity and nutrition-related determinants of child bone health and obesity prevention. Her most recent interests focus on improving the physical activity and nutrition environments of child care centers in Ohio to prevent child obesity. She has a primary role in developing a one-county pilot study to implement a new state program, Buckeye Best Child Care, with a plan for eventual state-wide roll-out of the program. She collaborates with multiple state agencies including the Ohio Department of Health, Ohio Department of Job and Family Services, Ohio Department of Education, *Healthy Ohio* (Governor's health care reform initiative), and the American Cancer Society.

Kimberly Yolton, PhD

Dr. Yolton is a developmental psychologist interested in the study of factors that may alter the normal trajectory of a child's development, behaviors, and mood, including exposures to toxicants (e.g., tobacco, drugs, and environmental

chemicals) and events such as preterm birth or complications during the prenatal or early postnatal periods.

Division Collaboration

Collaboration with Adolescent Medicine

Collaborating Faculty: Maria Britto, MD, MPH

Interacts at research meetings for the Center for Innovation in Chronic Care Disease Care. Dr. Britto is a co-mentor on Dr. Brinkman's K23 application and collaborating on an Outcomes Research Award application.

Collaborate on patient preference research with Dr. Hornung

Collaboration with Adolescent Medicine

Collaborating Faculty: Frank Biro, MD; Lorah Dorn, PhD

Dr. Biro provides Dr. Kalkwark expertise in maturational assessment in longitudinal study of bone mineral density in healthy children.

Dr. Kalkward provides expertise in bone density measurement for Dr. Dorn's study of smoking and metabolic complications in adolescent girls.

Collaboration with Allergy & Immunology

Collaborating Faculty: Michelle Lierl, MD

Collaboration with Dr. Spanier on Nitric Oxide studies.

Collaboration with Allergy & Immunology

Collaborating Faculty: Neeru Hershey

Dr. Simmons is a co-investigator on a pilot project investigating the change in RNA expression profiles overtime in patients admitted for asthma. He is responsible for the inpatient portion of the study.

Collaboration with Behavioral Medicine and Clinical Psychology

Collaborating Faculty: Jeff Epstein, PhD

Collaborating on an Outcomes Research Award application. In addition, Dr. Brinkman serves as the study physician on Dr. Epstein's R01 entitled, "Response Variability in Children with ADHD." Dr. Brinkman started a clinical service (e.g. ADHD Medication Consultation Clinic) in the Center for ADHD.

Collaboration with Behavioral Medicine and Clinical Psychology

Collaborating Faculty: Lori Stark

Collaborating with Dr. Kalkwarf on a exercise intervention in children with a forearm fracture, Dr. Stark has provided the behavioral expertise to promote adherence to the intervention.

Collaboration with Division of Behavioral Medicine and Clinical Psychology

Collaborating Faculty: Dean Beebe, PhD; Kelly Byars, PsyD

Collaborating with Dr. Yolton on 2 projects related to children's sleep patterns and how they are impacted by development in general as well as exposures to environmental toxicants such as tobacco smoke.

Collaboration with Division of Biostatistics and Epidemiology

Collaborating Faculty: Jane Khoury, PhD

Previous and current collaborations with Dr. Yolton on several projects examining the potential effects of tobacco smoke exposure during pregnancy and childhood on neurobehavior from the newborn period through childhood.

Collaboration with Division of Cardiology

Collaborating Faculty: Phillip Khoury, MS; Randal Clayton, PhD; Marcia Schmidt, MS, RD

Dr. Wosje has collaborated extensively with Philip Khoury, MS, Randal Claytor, PhD, and Marcia Schmidt, MS RD, to prepare data and disseminate findings from the BMI Rebound Study, a 4-year longitudinal study beginning at age 3 years.

Collaboration with Division of Critical Care Medicine

Collaborating Faculty: Dr. Derek Wheeler

Working with Dr. Vossmeier to decrease codes outside of critical care units.

Collaboration with Division of Developmental and Behavioral Pediatrics

Collaborating Faculty: Tanya Froehlich

Collaboration with Dr. Kahn on genetic and environmental influences on the etiology and treatment of ADHD.

Collaboration with Education and Training

Collaborating Faculty: Stacey Farber ; Janet Forbes ; Daniel McLinden; Rebecca Phillips

Collaboration with Dr. Vaughn on: photovoice and resilience in families/children; psychometric validation using Rasch analysis of the Pediatric Cultural Health Attributions Questionnaire; intercultural adjustment for cultural competency; Health disparities, social network analysis

Collaboration with Emergency Medicine

Collaborating Faculty: Jackie Grupp-Phelan ; Melinda Mahabee-Giddens ; Mary Patterson

Collaboration with Dr. Vaughn on: participatory research methodologies for use with mental health engagement; cultural aspects of smoking prevention and cessation, qualitative methodology; latent threats to ED identified in simulation; prevention Focus Group: health engagement and interventions via the ED; qualitative analysis and methodology.

Collaboration with Emergency Medicine

Collaborating Faculty: Rick Strait

Dr. Strait is the co-investigator on Dr. Simmons RNA expression project responsible for the Emergency Department portion of the study.

Collaboration with Endocrinology

Collaborating Faculty: Debra Elder; Sue Rose; Peggy Stenger, DO

Collaboration with Dr. Kalkwarf on maturational assessment in a longitudinal study of bone mineral density in healthy children.

Collaboration with Division of Epidemiology and Biostatistics

Collaborating Faculty: Ardythe Morrow; Jane Khoury

Assisting Dr. Copeland with the design of child care center studies, with a particular focus on breastfeeding in the child care environment and with the data analysis of my child care studies.

Collaboration with Gastroenterology

Collaborating Faculty: James Heubi, MD

Dr. Heubi provides Dr. Kalkwarf with expertise in maturational assessment in longitudinal study of bone mineral density in healthy children.

Collaboration with Division of Health Policy and Clinical Effectiveness

Collaborating Faculty: Carol Lannon; Peter Margolis; Michael Seid; Lisa Simpson

Collaborates with Dr. Muething on: practice-based research network grant on improving care for diabetes and asthma and measuring how context may effect the success of quality improvement interventions; health policy and health information technology focused research; AHRQ CERT grant to develop an Automated Adverse Event Detection Program

Collaboration with Health Policy and Clinical Effectiveness

Collaborating Faculty: Peter Margolis

Works with Dr. Kahn to stratify children at various levels of risk developmental delay and then develop population based interventions.

Collaboration with Human Genetics

Collaborating Faculty: Elizabeth Schorry

Collaborating with Dr. Kalkwarf on a multi-center study of bone density in children with neurofibromatosis 1.

Collaboration with Infectious Diseases

Collaborating Faculty: Mary Staat

Collaborate with Dr. Hornung on vaccine effectiveness studies with the CDC

Collaboration with Division of Neonatology/Pulmonary Biology

Collaborating Faculty: Kurt Schibler, MD

Dr. Yolton, as the principal investigator of Follow-up Research within the Cincinnati site of the Neonatal Research Network, collaborates with Dr. Schibler focus on neurobehavioral outcomes of high-risk newborns.

Collaboration with Oncology

Collaborating Faculty: Dr. Parentesis

Collaboration with Dr. Muething on reduction of medical errors with chemotherapeutic agents

Collaboration with Orthopedics**Collaborating Faculty: Junichi Tami; Eric Wall**

Collaborating with Dr. Kalkwarf on an exercise intervention in children with a forearm fracture, have provided access to their patients and have evaluated the safety of the intervention

Collaboration with Pulmonary Medicine**Collaborating Faculty: Carolyn Kerscmar**

Both through the RNA expression grant and Gen Peds AIC asthma project, Dr. Simons is working with Dr. Kerscmar to both improve care for inpatient asthmatics and to better engineer our inpatient system as a clinical laboratory.

Collaboration with Radiology**Collaborating Faculty: Tal Laor**

Collaborating with Dr. Kalkwarf to diagnose and classify children's forearm fractures for a case control study of bone density and forearm fracture.

Collaboration with Radiology**Collaborating Faculty: Chris Brubaker; Kim Cecil**

Collaborate on brain imaging studies

Collaboration with Sports Medicine**Collaborating Faculty: Tim Hewett**

Collaborating with Dr. Kalkwarf on an exercise intervention in children with a forearm fracture by providing expertise on the design of the intervention.

Collaboration with Colorectal Surgery; Surgery**Collaborating Faculty: Marc Levitt, M.D. ; Richard Azizkhan, M.D.**

Working with Dr. McLinden evaluating of the impact of Colorectal surgical training conference - Education and Training Project.

Collaboration with Pulmonary Medicine/Asthma Center; Patient Services; Pharmacy; Home Health Care**Collaborating Faculty: Carolyn Kerscmar**

Working with Dr. Mansour on the academic improvement collaborative focused on improving asthma care for Hamilton County medicaid children with asthma involves collaboration with multiple partners including other academic divisions, hospital departments, and community organizations. The primary division with which we are collaborating on this effort is the Pulmonary Division via the Asthma Center and Dr. Carolyn Kerscmar. The work has also involved collaboration with Patient Services, Pharmacy, Inpatient Unit Leadership, Home Health Care, as well as community organizations such as Medicaid Managed Care and the Cincinnati Department of Health, School Health Division.

Collaboration with Health Policy and Clinical Effectiveness; Managed Care**Collaborating Faculty: Peter Margolis; Keith Mandel**

Dr. Margolis serves as a mentor on Dr. Simmons' current asthma project, and will become more involved as he moves into the intervention phase.

Drs. Mandel and Simmons are a co-investigator on a grant from the Center for Healthcare Strategies with Dr. Mandel that is tied to our General Pediatrics AIC project, and augments the analytic framework around the project through collaboration with outside analytic groups.

Collaboration with Biostatistics & Epidemiology; Neonatology; Pharmacology**Collaborating Faculty: Ardythe Morrow**

Dr. Geraghty is the Medical Director of the Center for Breastfeeding Medicine which is a collaborative effort among Cincinnati Children's Hospital divisions of general and community pediatrics, nutrition therapy, neonatology, biostatistics and epidemiology, pharmacology, and nursing services. Dr. Geraghty is a co-investigator on a grant awarded through the University of Cincinnati, Interdisciplinary Grant program which includes faculty from obstetrics/gynecology, internal medicine, romance languages, and nutrition.

Collaboration with Emergency Medicine; Adolescent Medicine**Collaborating Faculty: Connie McAneney; Corrhine Lehman**

Mentions in Consumer Media

- [Testing Lead Rules](#) , Magazine
- [PROPHYLACTIC ANTIBIOTIC TREATMENT FOR CHILDREN WITH INITIAL URINARY TRACT INFECTION IS NOT ASSOCIATED WITH REDUCED RISK OF RECURRENCE](#) JAMA news release that was picked up by New York Times, CNN, USA Today, and other news outlets , Television
- [Nurse Staffing Mandates Are No Quality Panacea](#) Wall Street Journal , Newspaper
- [The Flip-Flop Factor: Why Day Care Kids Don't Play Outside](#) NY Times Well Blog & podcast , Newspaper
- [Teens Think They Have Asthma Under Control, But Benefit From New Approach To Treatment](#) Associated Press , Newspaper

Division Publications

1. Baker RC, Klein M, Samaan Z, Brinkman W. [Exam room presentations and teaching in outpatient pediatrics: effects on visit duration and parent, attending physician, and resident perceptions](#) . *Ambul Pediatr*. 2007; 7: 354-9.
2. Baker RC, Lewis KO. [Online master's degree in education for healthcare professionals: early outcomes of a new program](#) . *Med Teach*. 2007; 29: 987-9.
3. Baldwin CD, Dreyer BP, Szilagyi PG, Bell LM, Baker RC, Cheng TL, Coury DL, Dewitt TG, Darden PM, Duggan A, Ludwig S. [Academic general pediatric fellowships: curriculum design and educational goals and objectives](#) . *Ambul Pediatr*. 2007; 7: 328-39.
4. Baldwin CD, Szilagyi PG, Dreyer BP, Bell LM, Baker RC, Cheng TL, Coury DL, Dewitt TG, Darden PM, Duggan A, Ludwig S. [Strengthening the academic base of general pediatrics fellowship programs: a national program and curriculum development project](#) . *Ambul Pediatr*. 2007; 7: 340-7.
5. Conway PH, Cnaan A, Zaoutis T, Henry BV, Grundmeier RW, Keren R. [Recurrent urinary tract infections in children: risk factors and association with prophylactic antimicrobials](#) . *Jama*. 2007; 298: 179-86.
6. Conway PH, Muething SE. "Hospitalist service administration: transitions in care." In: LB Zaoutis, VW Chiang, eds. *Comprehensive pediatric hospital medicine*. Philadelphia: Mosby Elsevier; 2007: 61-63.
7. Froehlich TE, Lanphear BP, Dietrich KN, Cory-Slechta DA, Wang N, Kahn RS. [Interactive effects of a DRD4 polymorphism, lead, and sex on executive functions in children](#) . *Biol Psychiatry*. 2007; 62: 243-9.
8. Froehlich TE, Lanphear BP, Epstein JN, Barbaresi WJ, Katusic SK, Kahn RS. [Prevalence, Recognition, and Treatment of Attention-Deficit/Hyperactivity Disorder in a National Sample of US Children](#) . *Arch Pediatr Adolesc Med*. 2007; 161: 857-64.
9. Han JH, Lindsell CJ, Hornung RW, Lewis T, Storrow AB, Hoekstra JW, Hollander JE, Miller CD, Peacock WF, Pollack CV, Gibler WB. [The elder patient with suspected acute coronary syndromes in the emergency department](#) . *Acad Emerg Med*. 2007; 14: 732-9.
10. Kahn JA, Lan D, Kahn RS. [Sociodemographic factors associated with high-risk human papillomavirus infection](#) . *Obstet Gynecol*. 2007; 110: 87-95.
11. Landrigan PJ, Woolf AD, Gitterman B, Lanphear B, Forman J, Karr C, Moshier EL, Godbold J, Crain E. [The ambulatory pediatric association fellowship in pediatric environmental health: a 5-year assessment](#) . *Environ Health Perspect*. 2007; 115: 1383-7.
12. Phelan K, Donovan E, Kotagal U, Doyne E, Reeves S. "Clinical practice guidelines." In: LB Zaoutis, VW Chiang, eds. *Comprehensive pediatric hospital medicine*. Philadelphia: Mosby Elsevier; 2007: 36-43.
13. Phelan K, Houry J, Atherton H, Kahn RS. [Maternal depression, child behavior, and injury](#) . *Inj Prev*. 2007; 13: 403-8.
14. VandeCreek L, Grosseohme DH, Ragsdale JR, McHenry CL, Thurston C. **Attention to spiritual/religious concerns in pediatric practice. What clinical situations? What educational preparation?** . *Chaplaincy Today*. 2007; 23: 3-9.
15. Whitaker RC, Orzol SM, Kahn RS. [The co-occurrence of smoking and a major depressive episode among mothers 15 months after delivery](#) . *Prev Med*. 2007; 45: 476-80.
16. Baim S, Leonard MB, Bianchi ML, Hans DB, Kalkwarf HJ, Langman CB, Rauch F. [Official Positions of the International Society for Clinical Densitometry and Executive Summary of the 2007 ISCD Pediatric Position Development Conference](#) . *J Clin Densitom*. 2008; 11: 6-21.
17. Bigham MT, Brady PW, Manning PB, Jacobs BR, Kimball TR, Wong HR. [Therapeutic application of intrapericardial](#)

- [tissue plasminogen activator in a 4-month-old child with complex fibropurulent pericarditis](#). *Pediatr Crit Care Med*. 2008; 9: e1-4.
18. Brown RD, Jr., Huston J, Hornung R, Foroud T, Kallmes DF, Kleindorfer D, Meissner I, Woo D, Sauerbeck L, Broderick J. [Screening for brain aneurysm in the Familial Intracranial Aneurysm study: frequency and predictors of lesion detection](#). *J Neurosurg*. 2008; 108: 1132-8.
 19. Cecil KM, Brubaker CJ, Adler CM, Dietrich KN, Altaye M, Egelhoff JC, Wessel S, Elangovan I, Hornung R, Jarvis K, Lanphear BP. [Decreased brain volume in adults with childhood lead exposure](#). *PLoS Med*. 2008; 5: e112.
 20. Conway PH, Tamara Konetzka R, Zhu J, Volpp KG, Sochalski J. [Nurse staffing ratios: trends and policy implications for hospitalists and the safety net](#). *J Hosp Med*. 2008; 3: 193-9.
 21. DeWitt TG. [Diversity in pediatrics: the challenge and the opportunity](#). *Ambul Pediatr*. 2008; 8: 73-6.
 22. Dougherty D, Conway PH. [The "3T's" road map to transform US health care: the "how" of high-quality care](#). *Jama*. 2008; 299: 2319-21.
 23. Gordon CM, Bachrach LK, Carpenter TO, Crabtree N, El-Hajj Fuleihan G, Kutilek S, Lorenc RS, Tosi LL, Ward KA, Ward LM, Kalkwarf HJ. [Dual Energy X-ray Absorptiometry Interpretation and Reporting in Children and Adolescents: The 2007 ISCD Pediatric Official Positions](#). *J Clin Densitom*. 2008; 11: 43-58.
 24. Jusko TA, Henderson CR, Lanphear BP, Cory-Slechta DA, Parsons PJ, Canfield RL. [Blood lead concentrations < 10 microg/dL and child intelligence at 6 years of age](#). *Environ Health Perspect*. 2008; 116: 243-8.
 25. Lanphear BP, Hornung RW, Khoury J, Dietrich KN, Cory-Slechta DA, Canfield RL. [The conundrum of unmeasured confounding: Comment on: "Can some of the detrimental neurodevelopmental effects attributed to lead be due to pesticides? by Brian Gulson"](#). *Sci Total Environ*. 2008; 396: 196-200.
 26. Siegel RM, Schubiner J, Sammarco VJ. [A nonoperative treatment technique for peroneal tendon subluxation](#). *Clin Pediatr (Phila)*. 2008; 47: 300-1.
 27. Spanier AJ, Hornung RW, Kahn RS, Lierl MB, Lanphear BP. [Seasonal variation and environmental predictors of exhaled nitric oxide in children with asthma](#). *Pediatr Pulmonol*. 2008; 43: 576-83.

Grants, Contracts, and Industry Agreements

Grant and Contract Awards

Annual Direct / Project Period Direct

Baker, R

Academic Administrative Units In Primary Care

Health Resources and Services Administration

D54 HP 05463

09/01/05 - 08/31/08

\$135,732 / \$518,904

Brinkman, W

Decision Aid for Families Facing ADHD Treatment Disorder

National Institutes of Health (MEDISPIN, Inc)

HHS-N-271-2007-0005-C

09/12/07 - 03/31/08

\$17,875 / \$19,662

Copeland, K

The Influence of Childcare Center Environment on Children's Physical Activity

National Institutes of Health

K23 HL 088053

04/01/08 - 03/31/13

\$124,063 / \$620,315

Dewitt, T

Center for Health Care Strategies: Business for Quality-Phase II

Center for Health Care Strategies, Inc.

100524

04/01/08 - 12/31/11

\$29,130 / \$142,334

Geraghty, S

Role of Environmental Chemicals on Lactation Outcomes

National Institutes of Health

K23 ES 014691

06/01/06 - 05/31/11

\$117,250 / \$585,108

Hornung, R

Health Effects of Occupational Exposures in PGDP Workers

National Institutes of Health (University of Louisville)

R01 OH 007650

11/01/05 - 06/30/08

\$92,228 / \$143,662

Familial Intracranial Aneurysm

National Institutes of Health (University of Cincinnati)

R01 NS 039512 11/01/05 - 07/31/08 \$17,630 / \$38,750

Epidemiologic Survey of Department of Defense Contract Workers at the Iowa Army Ammunition Plant

Department of Defense - Army (University of Iowa)

W911SR-05-C-0055 11/01/05 - 09/28/08 \$17,801 / \$48,980

Hemorrhagic and Ischemic Stroke Among Black and Whites

National Institutes of Health (University of Cincinnati)

R01 NS 030678 11/01/05 - 06/30/09 \$41,889 / \$60,359

The Effect of Improved Hospital Reimbursement for Rt-PA in OH

Centers for Disease Control and Prevention (University of Cincinnati)

U36 CCU 319276 10/01/06 - 09/30/09 \$19,827 / \$62,779

Kahn, R.**Childhood Asthma In The Era Of Genomics: Will The Generalist's Role Need To Be Recast?**

Robert Wood Johnson Foundation

07/01/04 - 06/30/08 \$122,450 / \$296,647

Kalkwarf, H**Bone Mineral Density In Childhood Study**

National Institutes of Health

N01 HD 013329 10/01/06 - 06/30/09 \$464,604 / \$932,356

Lanphear, B**Fellows Training Program / Institutional National Research Service Award**

Health Resources and Services Administration

T32 PE 010027 07/01/03 - 06/30/08 \$394,030 / \$1,830,773

A Community-Based Trial to Prevent Lead Poisoning and Injuries

National Institutes of Health

R01 ES 014575 07/13/07 - 04/30/12 \$415,285 / \$2,065,991

Siegel, R.**Office-Based Low Carbohydrate Diet Intervention In Children**

Atkins Foundation

07/01/04 - 06/30/08 \$46,603 / \$261,966

Simmons, J**Identifying Clinically Meaningful Factors to Target Children at High Risk of Readmission for Asthma**

Thrasher Research Fund

03/01/08 - 02/28/09 \$24,988 / \$24,998

Spanier, A**Environmental Exposures, NOS Genes, and Exhaled Nitric Oxide in Pediatric Asthma**

National Institutes of Health

R21 HL 083145 07/01/06 - 06/30/08 \$97,100 / \$200,000

Low Level Tobacco Exposure and Infant Wheeze

Flight Attendant Medical Research Institute, Inc

07/01/07 - 06/30/10 \$100,000 / \$300,000

Vaughn, L**Latina Tweens: Faltering and Forgotten In Health Care**

Harmony Gardens

07/01/2007 - 01/31/2008 \$10,000 / \$10,000

Wosje, K**Dietary Patterns in Relation to Adiposity and Bone Mass in Young Children**

National Institutes of Health

R21 DK 077100 07/01/07 - 06/30/09 \$125,000 / \$250,000

Yolton, K**Tobacco Smoke and Early Human Neurobehavior**

Flight Attendant Medical Research Institute, Inc

07/01/07 - 06/30/10

\$100,000 / \$300,000

National Children's Study Vanguard Centers

National Institute of Health (South Dakota State University)

N01HD63416

11/01/2005 - 10/31/2010

\$47,923 / \$439,219

Current Year Direct**\$2,561,408****Service Collaborations****Kahn, R**

Medical Legal Partnership Cincinnati Bar Foundation

\$ 5,000

Medical Legal Partnership - Cleveland

\$ 3,333

Medical Legal Partnership - Boston

\$ 10,000

Lewis, K

Pfizer

\$ 7,500

Mansour, M

Neighborhood Health Care, Inc.

\$ 326,761

Spanier, A

Pediatric Environmental Health Speciality Units

\$ 20,000

Current Year Direct**\$372,594****Funded Collaborative Efforts****Bolling, C****Pursuing Perfection in Pediatric Therapeutics**

Agency for Healthcare Research and Quality

Lannon, C

09/01/07 - 08/30/11

5 %

Adolescent Bariatrics: Controlled Longitudinal Study of Psychosocial Development

National Institutes of Health

Zeller, M

03/01/08 - 02/28/13

3 %

Brinkman, W**Response Variability in Children with ADHD**

National Institutes of Health

Epstein, J

04/01/06 - 03/31/10

20 %

Kahn, R**Epithelial Genes in Allergic Inflammation**

National Institutes of Health

Hershey, G

09/15/06 - 08/31/11

4 %

EDSI First 5 LA

Regents of the University of California, Los Angeles

Margolis, P

12/01/05 - 11/30/08

20 %

Kalkwarf, H**Smoking and Metabolic Complications in Adolescent Girls**

National Institutes of Health

Dorn, L

02/01/04 - 01/31/09

5 %

Spinal Abnormalities in Neurofibromatosis Type 1

National Institutes of Health

Schorry, E

07/01/2006 - 03/31/2011

4 %

Muething, S

Pursuing Perfection in Pediatric Therapeutics

Agency for Healthcare Research and Quality

Lannon, C

09/01/07 - 08/31/11

10 %

PICU - BSI Collaborative Phase III

National Association of Children's Hospitals and Related Institutions

Margolis, P

10/01/07 - 09/30/09

3 %

Yolton, K

NICHD Cooperative Multi Center Neonatal Research Network

National Institutes of Health

Schibler, K

04/01/06 - 03/31/11

10 %

Total \$2,934,002
