

General and Community Pediatrics

Division Photo



*Seated: Tom DeWitt, Mona Mansour, Rob Kahn
1st row: Karen Jerardi, Lisa Kelley, Karen Wosje, Rebecca Phillips, Andy Beck, Kristen Copeland, Courtney Levinson
2nd row: Kadriye Lewis, Sarah Riddle, Pat Brady, Brian Volck, Ben Bolser, Scott Callahan, Gretchen Hartz, Kim Yolton,
3rd row: Katie Kerrey, Jean Beischel, Kathy Auger, Eric Kirkendall, Grant Mussman, Christy White, Jonathan Castillo, Sheela Geraghty
4th row: Heidi Kalkwarf, Craig Gosdin, Lisa Vaughn, Ron Levin, Bill Brinkman
5th row: Ray Baker, Nick DeBlasio, Jeff Simmons, Dan McLinden, Nick Newman, KJ Phelan, Andy Poltrack, Ted Sigrest, Mike Vossmeier, Greg Szumlas*

Division Data Summary

Research and Training Details	
Number of Faculty	38
Number of Joint Appointment Faculty	9
Number of Research Fellows	1
Number of Support Personnel	95
Direct Annual Grant Support	\$2,230,951
Direct Annual Industry Support	\$161,431
Peer Reviewed Publications	38
Clinical Activities and Training	
Number of Clinical Staff	29
Number of Clinical Fellows	4
Number of Other Students	160
Inpatient Encounters	6,100
Outpatient Encounters	60,610

Significant Publications

Conway PH, Clancy C. Transformation of health care at the front line. JAMA 2009;301(7):763-765

Drs. Conway and Clancy described a vision for transforming health care at the front line. The five key drivers outlined to engage and enable clinicians and patients to achieve better outcomes included quality

measurement and payment, health information technology, comparative effectiveness, quality improvement collaboratives and learning networks, and clinician training. They delineate the next steps as investing in these foundational building blocks, engaging clinicians in solutions to improve care, and aligning payment incentives with improved patient outcomes over episodes of care.

DeWitt TG, Cheng TL. The role of title VII funding in academic general pediatrics fellowships and leadership. Academic Medicine 2008;83(11):1103-1106

This paper provided an important historical perspective on the impact that Title VII funds had on the development and refinement of academic general pediatrics over the past several decades. It had a particular focus on the training of health services researchers and leaders in pediatrics.

Geraghty SR, Khoury JC, Morrow AL, Lanphear BP. Reporting individual test results of environmental chemicals in breastmilk: potential for premature weaning. Breastfeed Med 2008; 3(4): 207-213

In a cohort of 196 breastfeeding women, 68% and 81% said that they would readily stop breastfeeding if they were told that their breast milk contained low or high levels of environmental chemicals, respectively. These results illustrate the challenge of balancing the study of environmental influences on child health versus mothers' concerns for protecting their children-even in the context of unconfirmed detrimental clinical implications. By stopping breastfeeding early because of fear over environmental chemicals in their milk, mothers may, in fact, be putting their children at greater health risk by withholding all of the known benefits of breastfeeding.

Spooner SA, ClassenDC. Data standards and improvement of quality and safety in child health care. Pediatrics 2009;123:S74-S79

The unrealized promise of electronic medical record systems is their use in improving the quality of care. There is great potential for this improvement, but several barriers remain with the technology to allow these systems to drive the best care. One such barrier is the relative lack of adoption of data standards, particularly for pediatric uses like immunization decision support, weight-based dosing, growth analysis, and other areas that are of particular importance to pediatrics. This article reviews the world of data standards that have potential for effecting improvements in care for children.

Wosje KS, Khoury PR, Claytor RP, Copeland KA, Kalkwarf HJ, Daniels SR. Adiposity and TV viewing are related to less bone accrual in young children. J Pediatr 2009;154(1):79-85

This study found that higher fat mass at baseline and more TV viewing were associated with smaller increases in bone area and bone mass from age 3.5 to 7 years of age, adjusting for several co-variables suspected to be related to bone accrual. The findings give compelling reasons to prevent obesity and restrict TV exposure early in life, as pointed out in the editor's comment on the paper.

Division Highlights

Raymond Baker, MD, MEd

Dr. Baker has developed and supervised an online pediatric primary care curriculum and a multidisciplinary 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. Dr. Baker's academic interests and research are in resident education in pediatric primary care and distance learning in medical education.

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.

Jonathan Castillo Porter, MD, MPH

Dr. Castillo's work is focused on the development, implementation, and evaluation of educational programs related to medical student and resident training in global health. He also collaborates with colleagues pursuing academic activities related to issues of equity in

medicine and in processes that address such issues, particularly with regard to the clinical care of Latino, immigrant, and Limited English Proficiency patients and families

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 graduate medical education integration and effectiveness on 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, IBCLC

Dr. Geraghty is the Medical Director of the Cincinnati Children's Center of Breastfeeding Medicine. Her research interests, funded by the National Institutes of Health, are on barriers to successful breastfeeding outcomes. Dr. Geraghty's current focus area of research is the prevalent practice of breast milk pumping and the potential impact on the mother-infant dyad.

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 is actively involved in the Online Masters in Education Program through her work as the associate director and as an online instructor. Dr. Lewis has and continues to conduct educational research on issues arising in and related to online, asynchronous learning, especially in the context of the Online Master's Degree program. Her instructional activities can be seen through her participation in the faculty development program along with her national and international conference presentations and workshops. She initiated the APA SIG for E-learning for Medical Education, and has also established the Health Literacy Committee, which resides within the Division and Community Pediatrics at CCHMC, to examine links between literacy and health-related outcomes.

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, MSc

Dr. Simmons has completed enrollment of a cohort of 600 children admitted due to an asthma exacerbation, focusing on identifying modifiable factors that predict readmission for asthma. This cohort was funded by grants from the Thrasher Research Fund and the CCHMC Outcomes Research Award. Over the next year, in collaboration with the General Pediatric Academic Improvement Collaborative and inpatient asthma taskforce, Dr. Simmons will begin piloting interventions based on cross-sectional data from the cohort. Pilot data from these interventions will support further grant submissions.

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. Dr. Szumlas directs the Reach Out and Read program at Cincinnati Children's and serves on the Ohio Reach Out and Read state advisory board.

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.

Christine White, MD, MAT

Dr White's academic interests are in resident education and quality improvement particularly with patient safety. Current activities include: developing a curriculum for resident education related to pediatric consultation and the role of the hospitalist, applying improvement science methodology and concepts of situation awareness to improve patient safety through better communication at night between caregivers, and serving as a clinical systems improvement leader in the inpatient setting.

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, MD, PhD

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 Asthma Center

Collaborating Faculty: Carolyn Kercksmar, MD; Neeru Hershey, MD, PhD

Drs. DeWitt and Mansour serve on the Asthma Center Advisory Board. In addition, Dr. Simmons and Dr. Mansour are active members of the Task Force for the Inpatient Asthma Unit

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, PhD

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: Derek Wheeler, MD

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

Collaboration with Division of Developmental and Behavioral Pediatrics

Collaborating Faculty: Tanya Froehlich, MD

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, PhD; Janet Forbes, MS; Daniel McLinden, PhD; Rebecca Phillips, PhD

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, MD ; Melinda Mahabee-Giddens, MD**

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

Collaboration with Emergency Medicine**Collaborating Faculty: Rick Strait, MD**

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, MD; Sue Rose, MD; 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, PhD; Jane Khoury, PhD**

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, MD; Peter Margolis, MD; Michael Seid, MD; Lisa Simpson, MD**

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, MD**

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, MD**

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, MD**

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, MD; Eric Wall, MD

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 Kercsmar, MD

Both through the RNA expression grant, Gen Peds AIC asthma project, and inpatient asthma taskforce, Dr. Simmons is working with Dr. Kercsmar 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, MD

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, MD; Kim Cecil, MD

Collaborate on brain imaging studies

Collaboration with Sports Medicine

Collaborating Faculty: Tim Hewett, MD

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, MD; Richard Azizkhan, MD

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 Kercsmar, MD

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 Kercsmar. 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, MD; Keith Mandel, MD

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

Drs. Mandel and Simmons are co-investigatorson a grant from the Center for Healthcare Strategies with Dr. Mandel that is tied to the 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, PhD

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. Ardythe Morrow is Dr. Geraghty's mentor on her Mentored Patient-Oriented Research Career Development Award (K23).

Dr. Geraghty is a co-investigator on a grant to study the breastfeeding practices of Latina

women awarded through the University of Cincinnati, Interdisciplinary Grant program which includes faculty from obstetrics/gynecology, internal medicine, romance languages, and nutrition. Dr. Geraghty also is a collaborator with members of the University of Cincinnati's College of Medicine (Physiology) and Pharmacy to study the affects of antidepressant therapy on breastfeeding mothers. This grant was submitted via the University of Cincinnati, CCTST Pilot Grant Program in July, 2009.

Collaboration with Emergency Medicine; Adolescent Medicine

Collaborating Faculty: Connie McAnaney, MD; Corrhine Lehman, MD

Developing with Drs. Guiot, M. Klein, and Peltier a web portal for pediatric medical student education.

Collaboration with Pulmonary Medicine

Collaborating Faculty: Michael Seid, MD

Collaborated with Dr. Brinkman on his Outcomes Reserch Award.

Collaboration with Center for Adherence & Self Management; Developmental & Behavior Pediatrics; Center for Health Care Quality; Community Pediatrician

Collaborating Faculty: Dennis Drotar, MD; David Schonfeld, MD; Carol Lannon, MD; Phil Lichtenstein, MD

Dr. Drotar is Dr. Brinkman's Co-mentors on his K23. All others serve on his K23 Advisory Board.

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, Adjunct Associate Professor

Research Interests: Obesity

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

Research Interests: Decision making; Communication; ADHD

Jonathan Castillo, MD, MPH, Assistant Professor Clinical

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

Derek Fletcher, MD, Assistant Professor Clinical

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*

Ronald Levin, MD, Assistant Professor Clinical

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, Professor Emerita
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 ; *Associate Director, General & Community Pediatrics; Assistant Vice President, Patient Safety*
Research Interests: Patient Safety, Reliability, Adverse Events

Jennifer O'Toole, MD, Instructor ; *Associate Director, Med/Peds*

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

Rosemary Schmidt, MD, Professor Emerita

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, 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

Christine White, MD, MAT, Assistant Professor Clinical

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
- Stephen Wilson, MD**, Assistant Professor Clinical Internal Medicine

Clinical Staff Members

- **Kathleen Bain, MD**
- **Jeanne Beischel, MD**
- **Deborah Boyd, MD**
- **Patrick Brady, MD**
- **Scott Callahan, MD**
- **Nicole Cicchino, MD**
- **Sarah Corathers, MD**
- **Cynthia Delatt, MD**
- **Michael Dobbs, MD**
- **Dena Elkeeb, MD**
- **Anne Marie Fitz, MD**
- **Craig Gosdin, MD**
- **Gretchen Hartz, MD**
- **Elisabeth Kelley, MD**
- **Katie Kerrey, MD**
- **Eric Kirkendall, MD**
- **Jill Klein, MD**
- **Hong Liu, MD**
- **Carrie McIntyre, MD**
- **Jenny Motley, MD**
- **Grant Mussman, MD**
- **Mary Beth Pero, MD**
- **Andrew Poltrack, MD**
- **Sarah Riddle, MD**
- **Robert Schaengold, MD**
- **Klint Schwenk, MD**

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

Trainees

- Patrick Brady, MD, PGY III, Cincinnati Children's Hospital Medical Center
- Eric Kirkendall, MD, PGY III, Cincinnati Children's Hospital Medical Center
- Tanya Mullins, MD, PGY VI, Cincinnati Children's Hospital Medical Center
- Sonya Negriff, PhD, PGY II, University of Southern California
- Jeffrey Simmons, MD, PGY IX, Cincinnati Children's Hospital Medical Center

Significant Accomplishments

Working at the intersection of health care and social justice

The new Child Health-Law Partnership, a collaboration between the Pediatric Primary Care Clinic (PPCC) and the Legal Aid Society of Greater Cincinnati (LASGC), seeks to assist low income families with health-related legal needs. The program, co-led by Dr. Robert Kahn and Elaine Fink, Esq. (LASGC), addresses the social issues that are often at the root of poor child health. Medical care alone is rarely the best answer for the child with asthma when the landlord refuses to eliminate mold or rodents. Over 400 PPCC children have been referred for help. True to the Cincinnati Children's mission, the program seeks to be "the best at getting better" - it is building in quality improvement measurement of case finding, referrals, and outcomes, with much of the data drawn from electronic health and legal records.

The program is also focused on training residents in social and legal issues that affect health, in an effort led by Dr. Melissa Klein. For the first time, the Intern Advocacy rotation incorporated immersion activities, such as a field trip to the FreeStore FoodBank, to help residents better understand the intersection of health and social wellbeing. Lectures on health-related income benefits, housing, education, and family law are co-taught by physicians, social workers and legal advocates. In addition, PPC residents and medical students attend case conferences. Similar to the partnership outcomes, the impact of these educational interventions on both resident knowledge and actual practice are also being formally assessed. Resident social histories and related social and legal referrals are being tracked using the electronic health record. Though it is less than a year old, the program has already been recognized as an emerging national model for medical-legal partnerships. Lessons learned have led to a national plenary address and scientific presentations, two pending NIH grant proposals, and multi-site collaborations with Boston University and UCLA.

Pre and Perinatal Environmental Impact on Child Development

Dr. Yolton is a developmental psychologist interested in the study of factors that may alter the typical 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. Her recent work has resulted in publications demonstrating links between exposure to second hand smoke (SHS) and decreased cognitive performance and increased behavior problems in children, with behavior problems more strongly linked to SHS exposure in boys than girls. New findings also link SHS exposure with more frequent sleep disturbances and increased daytime sleepiness in children. She has recently reported significant associations between prenatal tobacco smoke exposure and neurobehavioral performance in infancy, with effects varying by race. Future research directions will include studies further investigating the impact of tobacco smoke, prenatally and as SHS in childhood, on neurodevelopmental characteristics as they differ by race and sex. She has funding decisions pending on projects to examine the impact of insecticide exposure, traffic related air pollution, methyl mercury, opiates, and treatment for gastroschisis on neurobehavioral outcomes in infancy and childhood.

Division Publications

1. Budryte D, Vaughn LM, Riegg N. ***Feminist Conversations: Women, trauma and empowerment in transitional societies.*** New York; University Press of America
2. Levin R. "The primary care physician's role in hospice care." *Hospice care for children.* New York: Oxford University Press; 2009: 339-362.
3. Lewis KO, Baker RC. **Expanding the scope of faculty development for health care professionals.** *J Educ Online.* 2009; 6:

4. Spooner A. **"Electronic health record and web-based resources."** *American Academy of Pediatrics textbook of pediatric care*. Elk Grove Village, IL: American Academy of Pediatrics; 2009: 28-38.
5. Vaughn LM, Forbes J, Howell B. **Enhancing home visitation programs: input from a participatory evaluation using photovoice.** *Infants Young Child*. 2009; 22: 129-142.
6. Vaughn LM, Phillips R. **Intercultural adjustment for cultural competence in shared context: "The Company We Keep"**. *Int J Interdisc Soc Sci*. 2009; 3: 1-12.
7. Wiener FB, Schmidt M, Munson K, Khoury PR, Kalkwarf H, Daniels SR. **Dietary intake of 3 year old children: do they meet recommended intake?**. *Curr Pediatr Rev*. 2009; 5: 12-34.
8. Calonge N, Petitti DB, DeWitt TG, Dietrich A, Gordis L, et al. [Screening and treatment for major depressive disorder in children and adolescents: US Preventive Services Task Force Recommendation Statement](#). *Pediatrics*. 2009; 123: 1223-8.
9. Tucker KM, Brewer TL, Baker RB, Demeritt B, Vossmeier MT. [Prospective evaluation of a pediatric inpatient early warning scoring system](#). *J Spec Pediatr Nurs*. 2009; 14: 79-85.
10. Petitti DB, Teutsch SM, Barton MB, Sawaya GF, Ockene JK, DeWitt T. [Update on the methods of the U.S. Preventive Services Task Force: insufficient evidence](#). *Ann Intern Med*. 2009; 150: 199-205.
11. Conway PH, Clancy C. [Transformation of health care at the front line](#). *JAMA*. 2009; 301: 763-5.
12. Benjamin SE, Copeland KA, Craddock A, Neelon B, Walker E, Slining MM, Gillman MW. [Menus in child care: a comparison of state regulations with national standards](#). *J Am Diet Assoc*. 2009; 109: 109-15.
13. Conway PH, White PJ, Clancy C. [The public role in promoting child health information technology](#). *Pediatrics*. 2009; 123 Suppl 2: S125-7.
14. Spooner SA, Classen DC. [Data standards and improvement of quality and safety in child health care](#). *Pediatrics*. 2009; 123 Suppl 2: S74-9.
15. Wosje KS, Khoury PR, Claytor RP, Copeland KA, Kalkwarf HJ, Daniels SR. [Adiposity and TV viewing are related to less bone accrual in young children](#). *J Pediatr*. 2009; 154: 79-85 e2.
16. Conway PH, Keren R. [Factors associated with variability in outcomes for children hospitalized with urinary tract infection](#). *J Pediatr*. 2009; 154: 789-96.
17. Meinen-Derr J, Morrow AL, Hornung RW, Donovan EF, Dietrich KN, Succop PA. [Epidemiology of necrotizing enterocolitis temporal clustering in two neonatology practices](#). *J Pediatr*. 2009; 154: 656-61.
18. Bolling C, Crosby L, Boles R, Stark L. [How pediatricians can improve diet and activity for overweight preschoolers: a qualitative study of parental attitudes](#). *Acad Pediatr*. 2009; 9: 172-8.
19. Wade TJ, Mansour ME, Guo JJ, Huentelman T, Line K, Keller KN. **Access and utilization patterns in the first three years of implementation of four urban and four rural elementary and middle school school-based health centers.** *Public Health Rep*. 2008; 123: 739-750.
20. Yeoh B, Woolfenden S, Wheeler D, Alperstein G, Lanphear B. [Household interventions for prevention of domestic lead exposure in children](#). *Cochrane Database Syst Rev*. 2008; : CD006047.
21. Geraghty SR, Riddle SW, Shaikh U. [The breastfeeding mother and the pediatrician](#). *J Hum Lact*. 2008; 24: 335-9.
22. Dorn LD, Susman EJ, Pabst S, Huang B, Kalkwarf H, Grimes S. [Association of depressive symptoms and anxiety with bone mass and density in ever-smoking and never-smoking adolescent girls](#). *Arch Pediatr Adolesc Med*. 2008; 162: 1181-8.
23. Geraghty SR, Khoury JC, Morrow AL, Lanphear BP. [Reporting individual test results of environmental chemicals in breastmilk: potential for premature weaning](#). *Breastfeed Med*. 2008; 3: 207-13.
24. Lewiecki EM, Gordon CM, Baim S, Leonard MB, Bishop NJ, Bianchi ML, Kalkwarf HJ, Langman CB, Plotkin H, Rauch F, Zemel BS, Binkley N, Bilezikian JP, Kendler DL, Hans DB, Silverman S. [International Society for Clinical Densitometry 2007 Adult and Pediatric Official Positions](#). *Bone*. 2008; 43: 1115-21.
25. Yolton K, Khoury J, Hornung R, Dietrich K, Succop P, Lanphear B. [Environmental tobacco smoke exposure and child behaviors](#). *J Dev Behav Pediatr*. 2008; 29: 450-7.
26. Epstein JN, Langberg JM, Lichtenstein PK, Mainwaring BA, Luzader CP, Stark LJ. [Community-wide intervention to improve the attention-deficit/hyperactivity disorder assessment and treatment practices of community physicians](#). *Pediatrics*. 2008; 122: 19-27.
27. Gordon CM, Baim S, Bianchi ML, Bishop NJ, Hans DB, Kalkwarf H, Langman C, Leonard MB, Plotkin H, Rauch F, Zemel BS. [Special report on the 2007 Pediatric Position Development Conference of the International Society for Clinical Densitometry](#). *South Med J*. 2008; 101: 740-3.
28. Landrigan CP, Conway PH, Stucky ER, Chiang VW, Ottolini MC. [Variation in pediatric hospitalists' use of proven and unproven therapies: a study from the Pediatric Research in Inpatient Settings \(PRIS\) network](#). *J Hosp Med*. 2008; 3: 292-8.

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31. Davis AK, Reynolds PP, Kahn NB, Jr., Sherwood RA, Pascoe JM, Goroll AH, Wilson ME, DeWitt TG, Rich EC. [Title VII and the development and promotion of national initiatives in training primary care clinicians in the United States](#). *Acad Med*. 2008; 83: 1021-9.
32. DeWitt TG, Cheng TL. [The role of Title VII funding in academic general pediatrics fellowships and leadership](#). *Acad Med*. 2008; 83: 1103-6.
33. Mansour ME, Rose B, Toole K, Luzader C, Atherton H. **Pursuing perfection: an asthma quality improvement initiative in school-based health centers with community partners**. *Public Health Rep*. 2008; 123: 717-730.
34. Sauerbeck LR, Hornung R, Moomaw CJ, Woo D, Curry R, Brown RD, Jr., Broderick J. [The effects of study participation in the Familial Intracranial Aneurysm Study on cigarette smoking](#). *J Stroke Cerebrovasc Dis*. 2008; 17: 370-2.
35. Godfrey MM, Melin CN, Muething SE, Batalden PB, Nelson EC. [Clinical microsystems. Part 3. Transformation of two hospitals using microsystem, mesosystem, and macrosystem strategies](#). *Jt Comm J Qual Patient Saf*. 2008; 34: 591-603.
36. Lewiecki EM, Gordon CM, Baim S, Binkley N, Bilezikian JP, Kendler DL, Hans DB, Silverman S, Bishop NJ, Leonard MB, Bianchi ML, Kalkwarf HJ, Langman CB, Plotkin H, Rauch F, Zemel BS. [Special report on the 2007 adult and pediatric Position Development Conferences of the International Society for Clinical Densitometry](#). *Osteoporos Int*. 2008; 19: 1369-78.
37. Vaughn LM, Rojas-Guyler L, Howell B. ["Picturing" health: a photovoice pilot of Latina girls' perceptions of health](#). *Fam Community Health*. 2008; 31: 305-16.
38. Hornung RW, Pinney SM, Lodwick J, Killough GG, Brewer DE, Nasuta J. [Estimation of radon exposures to workers at the Fernald Feed Materials Production Center 1952-1988](#). *J Expo Sci Environ Epidemiol*. 2008; 18: 512-23.

Grants, Contracts, and Industry Agreements

Grant and Contract Awards

Annual Direct / Project Period Direct

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 / \$627,813

Prevention of Obesity Among Preschoolers and School-Aged Children.

Robert Wood Johnson Foundation

64312

07/01/08 - 06/30/11

\$83,315 / \$299,998

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

\$30,012 / \$142,335

CTSA: Research, Education, Training and Career Development

National Institutes of Health (University of Cincinnati)

UL1 RR026314

04/03/09 - 03/31/14

\$38,609 / \$38,609

GERAGHTY, S

Role of Environmental Chemicals on Lactation Outcomes

National Institutes of Health

K23 ES 014691

06/01/06 - 05/31/11

\$147,451 / \$585,108

HORNUNG, R

Epi Survey of Iowa Ammunition Plant Workers

Department of Defense - Army (University of Iowa)

W911SR-05-C-0055

11/01/05 - 09/28/09

\$14,667 / \$48,980

Familial Intracranial Aneurysm

National Institutes of Health (University of Cincinnati)

R01 NS 039512

11/01/05 - 07/31/09

\$18,405 / \$57,155

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

Centers for Disease Control and Prevention (University of Cincinnati)

U36CCU319276

10/01/06 - 09/30/09

\$21,334 / \$62,779

Health Effects of Occupational Exposures in PGDP

National Institutes of Health (University of Louisville)

R01 OH 007650

11/01/05 - 06/30/09

\$21,283 / \$164,945

KAHN, R.**Institutional Research Training Grant in Primary Care Medicine**

Health Resources and Services Administration

T32 PE 010027

07/01/08 - 06/30/11

\$250,334 / \$1,024,628

KALKWARF, H**Bone Mineral Density In Childhood Study Clinical Center**

National Institutes of Health

N01 HD 013329

10/01/06 - 03/31/10

\$363,946 / \$932,356

LANPHEAR, B**A Community-Based Trial to Prevent Lead Poisoning and Injuries**

National Institutes of Health

R01 ES 014575

07/13/07 - 04/30/12

\$387,674 / \$2,065,991

MUETHING, S**Pursuing Perfection in Pediatric Therapeutics**

Agency for Healthcare Research and Quality

U18 HS 016957

09/01/07 - 08/31/11

\$92,977 / \$92,977

SPANIER, A**Low Level Tobacco Exposure and Infant Wheeze**

Flight Attendant Medical Research Institute, Inc

07/01/07 - 06/30/10

\$100,000 / \$300,000

Prenatal Low Level Tobacco & Phthalate Exposure & Childhood Respiratory Health

National Institutes of Health

K23 ES 016304

07/01/08 - 06/30/13

\$119,500 / \$597,500

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

\$122,500 / \$250,000

RWJF State Proposed School Wellness Intervention

Robert Wood Johnson Foundation

65784

02/01/09 - 01/31/10

\$150,000 / \$150,000

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 Institutes of Health (South Dakota State University)

HHSN2752006034

11/01/05 - 10/30/10

\$44,881 / \$439,219

Current Year Direct**\$2,230,951****Industry Contracts****Mansour, M**

Current Year Direct Receipts**\$161,431****Service Collaborations****Kahn, R**

Health Law Partnership

\$ 13,333

Current Year Direct**\$13,333****Funded Collaborative Efforts****Brinkman, W****Response Variability in Children with ADHD**

National Institutes of Health

Epstein J 06/01/2006 - 03/31/2010

20 %

Hornung, Richard**Hemorrhagic and Ischemic Stroke Among Blacks and Whites**

National Institutes of Health (University of Cincinnati)

Khoury, J 11/01/2005 - 06/30/2009

11 %

Kahn, Robert**Pursuing Perfection in Pediatric Therapeutics**

Agency for Healthcare Research and Quality

Lannon, C 11/01/05 - 06/30/09

11 %

Early Development Service Intervention Initiative

First of 5 LA (The Regents of the University of California)

Margolis, P 12/01/2005 - 11/30/2009

15 %

Kalkwarf, Heidi**General Clinical Research Center**

National Institutes of Health

Strauss, A 02/15/2007 - 04/30/2009

10 %

Spinal Abnormalities in Neurofibromatosis Type 1

National Institutes of Health (University of Utah)

Schorry, E 07/01/2006 - 03/31/2011

4 %

Muething, S**PICU-BSI Collaborative Phase III**

Natl Assoc of Children's Hosp & Related Institutes

Margolis, P 10/01/2007 - 09/30/2009

8 %

Yolton, K**NICHD Cooperative Multi-Center Neonatal Research Network**

National Institutes of Health

Schibler, Kurt 04/01/2006 - 03/31/2011

10 %

Total \$2,230,951