

General and Community Pediatrics

Division Photo



Seated: M Mansour, T DeWitt

1st row: K Lewis, J Bieschel, H Flint, Z Samaan, A Statile, K Jerardi, A Guiot, E Springer

2nd row: K Kerrey, K Yolton, C McIntyre, L Crosby, G Hartz, A Deiwert, D Fletcher, R Kahn, K Bain, Z Beck, K Auger, C Levinson

3rd row: H Kalkwarf, L Kelley, R Schaengold, KJ Phelan, R Levin, C Pletier, N Newman, G Szumlas

4th row: S Geraghty, K Copeland, J Simmons, J O'Toole, S Callahan, B Volck, A Poltrack, D Hall, E Kirkendall, M Vossmeyer

Division Data Summary

Research and Training Details		
Number of Joint Appointment Faculty	8	
Number of Support Personnel	24	
Direct Annual Grant Support	\$2,754,168	
Direct Annual Industry Support	\$104,123	
Peer Reviewed Publications	47	
Clinical Activities and Training		
Number of Clinical Staff	109	
Number of Clinical Fellows	3	
Number of Other Students	5	
Inpatient Encounters	8489	
Outpatient Encounters	70,945	

Significant Publications

Auger KA, Sieplinga KR, Simmons JM, Gonzalez Del Rey J. Failure to Thrive: Pediatric Residents Weigh in on Feasibility Trial of the Proposed 2008 Institute of Medicine Work Hour Restrictions. Journal of Graduate Medical Education 2009;1:181-4

This article discusses the implications of the 2008 Institute of Medicine proposed residency work hour restrictions through a one month trial of these restrictions. It outlines some of the challenges facing resident education in a new work schedule. Total resident sleep time was unchanged during the trial.

Baker RC, Klein M, Samaan Z, Lewis K. Effectiveness of an online pediatric primary care curriculum.

Academic Pediatrics. 2010 Mar-Apr;10(2):131-7

This study demonstrated that an online pediatric primary care curriculum is an effective supplement to traditional resident education and reaches a significantly larger number of residents compared with the traditional conference-based format alone. These findings suggest that e-learning in medical education is a valuable teaching format for contemporary, computer-savvy residents.

Conway PH, Clancy C. Comparative Effectiveness Research – Implications of the Federal Coordinating Council's Report. N Engl J Med. 2009 Jul 23;361(4):328-30.

Dr. Conway, who was Executive Director of the Federal Coordinating Council (FCC) for Comparative Effectiveness Research (CER), summarized with Dr. Clancy the Report to the President from the FCC. The report established the first common Federal definition for CER, including a range of comparative interventions such as medications, prevention, and delivery system interventions. The FCC established prioritization criteria for CER funding and specific recommendations for the \$1.1 billion of Recovery Act funding. Finally, the paper outlines the strategic framework to guide CER investment in areas such as research, human and scientific capital, data infrastructure, and adoption of evidence.

Kalkwarf HJ, Gilsanz V, Lappe JM, et al. Tracking of bone mass and density during childhood and adolescence. J Clin Endocrinol Metab 2010;95:1690-8

This paper demonstrated that bone mass and density track along percentiles during childhood and adolescence despite ongoing growth and pubertal maturation. Correlations between Z-scores at baseline and year 3 later ranged from 0.76 – 0.88. Among children with a Z-score below 1.5 at baseline, 72–87% still had a Z-score below 1 after 3 years. Healthy children with low bone density will likely continue to have low bone density unless effective interventions are instituted.

Wosje KS, Copeland KA, Khoury J, et al. Dietary patterns associated with fat and bone mass in young children. Am J Clin Nutr 2010

Data from 325 children followed for 4 years beginning at approximately age 4 showed that dietary intake patterns characterized by high intakes of dark green and deep yellow vegetables and low intakes of fried foods may lead to healthy fat mass and bone mass accrual in young children. This innovative approach looked at cominations of foods rather than simply calories and food groups as predictions of body health outcomes.

Division Highlights

Raymond Baker, MD

Dr. Baker's research interests are in resident education, educator development, and distance education. William Brinkman, MD, MEd

Dr. Brinkman's work focuses on family/self management of chronic conditions like attention-deficit/hyperactivity disorder (ADHD) and asthma. Recent research has explored how physicians and families interact to make treatment decisions for children with ADHD. Dr. Brinkman is currently funded by the National Institute of Mental Health to study factors that influence parent decisions after their child is diagnosed with ADHD. In addition, he continues to study interventions to facilitate shared decision making in the care of children with ADHD.

Patrick H. Conway, MD

Dr. Conway is Director of the Section of Hospital Medicine which includes over 25 faculty and staff physicians who care for approximately a quarter of the Cincinnati Children's inpatients, teach residents and medical students, and conduct research. Dr. Conway's specific research interests include comparative effectiveness research, implementation research, and the rapid adoption of comparative evidence into practice and decision-making. He is a member of the Division of Health Policy and Clinical Effectiveness and on the senior leadership team for the Anderson Center for Health Systems Excellence.

Kristen Copeland, MD

As an investigator, Kristen Copeland, MD, is studying how the child care center environment-including its facilities, teachers, policies, and practices-can promote children's physical activity, gross motor development, and healthy eating habits. Because the majority of preschool-aged children are in child care, these settings will be crucial in reversing recent rising trends in childhood obesity and associated morbidities. Dr. Copeland also directs the 3-year general pediatric fellowship program, Primary Care Research Fellowship for Child and Adolescent Health, which aims to prepare independent researchers of prevalent health problems affecting underserved children and adolescents.

Thomas DeWitt, MD

Dr. DeWitt has particularly focused on graduate medical education integration and effectiveness of community-based research and education. He continues to focus on the integration across the division of a multifactor asthma improvement project and its impact on patient outcomes and interactions within a division.

Derek Fletcher, MD

Dr. Fletcher helped organize home visits for Pediatric Residents in the Primary Care Track, where each resident spends a few hours in the home of a child with Special Health Care Needs to learn about the challenges faced by parents caring for their medically complex children. Dr. Fletcher helps provide comprehensive patient care as a primary care provider following the Medical Home model as endorsed by the AAP.

Sheela Geraghty, MD, MS

Dr. Geraghty is the medical director of the Cincinnati Children's Center for 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.

David Hall. MD

Dr. Hall's research interest include the epidemiology of medically complex chronic diseases, the impact of the medical home on quality and cost of care for children with medically complex chronic diseases.

Robert Kahn, MD

Dr. Kahn's work focuses on understanding the social and biologic pathways that lead to child health disparities and developing interventions to interrupt those pathways. Dr. Kahn was funded by NIH this year to embark on a large scale study of disparities in children's admissions for asthma. A partnership he locally co-founded that embeds Legal Aid advocates in pediatric primary care to address the social determinants of children's poor health was highlighted in a New York Times article this year.

Melissa Klein. MD

Dr. Klein is a general pediatrician, medical educator, and researcher. She is mainly interested in medical education research, and primarily studies the impact of teaching social determinants of child health to pediatric residents.

Kadriye O. 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 national and international conference presentations and workshops. She initiated the APA SIG for E-learning for Medical Education. This has included developing a website, arranging "Webinars", and producing a bimonthly newsletter. She has also established the Health Literacy Committee to examine links between literacy and health-related outcomes. She has been chairing this committee successfully since August 2007 and presented a health literacy poster at the 2010 PAS meeting.

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 enviornments 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's has interest in structured planning for and the evaluation of the impact of human capital development decisions. He has applied structured planning processes such as concept mapping and economic forecasting to educational planning. He has studied the evolution of programs through social network methods and has applied economic models to evaluate the educational outcomes. Additionally, Dr. McLinden has an interest in applications of Rasch measurement models to improve the measurement of 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 intersest and pursuit is in the area of commuity-based teaching of pediatric residents and medical students. He also has an interest in faculty education development.

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, information science, and learning analytics. She is particularly interested in application to faculty development, leader development and mentoring.

Zeina Samaan, MD

Dr. Samaan is focused on primary care quality improvement which include improvement of childhood immunization rate, improvement of influenza vaccination rate in high risk pediatric patients, preventing medical errors in primary cre setting, devleopment screening and Autism intiiatives. She also focuses on the use of electronic health record to deliver quality of care; implemented flu alert using EHR to improve the rate of flu vaccinations.

Jeffrey M. Simmons, MD, MSc

As an investigator, Jeffrey M. Simmons, MD, MSc aims to integrate classical clinical research methods and quality improvement science to accelerate the integration of research and research findings into the general inpatient wards where he works as a pediatric hospitalist. His initial work has focused on better understanding the reasons for socioeconomic disparities among children hospitalized for asthma as well as redesigning the clinical care system to better address those disparities. He has completed the one year follow-up on his cohort of 601 children admitted for asthma, funded through grants from the Thrasher Research Fund and CCHMC Place Outcomes Research Award, and over the past year he has presented findings on how financial strain and health beliefs impact asthma readmission at several national meetings. Results from the cohort and the recruitment procedures also served as pilot data for Dr. Robert Kahn's successful RO1 application which begins enrollment in August 2010. Over the past year, through collaborations with the Academic Improvement Collaborative and the Inpatient Asthma Task Force which he co-leads with Dr. Carolyn Kerscmar from the Division of Pediatric Pulmonology as well as in partnership with General Pediatric Research Fellow, Dr. Andrew Beck, Dr. Simmons has piloted several interventions to address risk of poor asthma control and readmission. Results from this pilot work are currently being analyzed and will form the basis for future grant

submissions.

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 interest 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

Dr. Vaughn research interest include community-based participatory research with immigrant families especially Latinos, parental cultural health attributions about childhood health and illness, and cultrually responsive/competent practice.

Michael Vossmeyer, MD

Dr. Vossmeyer continues to develop and implement high reliability system of care in the area of patient safety, the use of situation awareness to improve patient safety and patient flow through complex adaptive systgems, and the relationship between prior learning experience and the application of situation awareness.

Christine White, MD, MAT

Dr. White's interest include improving physician compliance with hand hygiene. She is the inpatient flow leaders and is interested in quality improvement, particularly with patient safety. Another interest of Dr. White's is resident education.

Kimberly Yolton, PhD

Kimberly Yolton, PhD is a developmental psychologist researching the effects of prenatal and postnatal exposures to environmental toxicants (e.g. tobacco smoke, pesticides, industrial chemicals) on neurobehavioral outcomes during infancy and childhood. She is additionally involved in research on neurobehavioral outcomes of high risk infants. She has expertise in research methodologies for assessing neurobehavior from the newborn period to adulthood.

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 Adolescent Medicine

Collaborating Faculty: Jessica Kahn; Lorah Dorn; Evaline Alessandrini

The General Pediatric fellowship is a partnership with the Division of Adolescent Medicine and the Center for Health Care Quality.

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 Kercsmar, 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 Asthma Research; Pulmonary Medicine; Behavior Medicine & Clinical Psychology; Center for Epidemiology & Biostatistics

Collaborating Faculty: Neeru Hershey; Carolyn Kercsmar; Dennis Drotar; Bin Huang

Dr. Kahn is collaborating with Drs. Neeru Hershey (Division of Asthma Research), Carolyn Kercsmar (Pulmonary Medicine), Dennis Drotar (Behavioral Medicine and Clinical Psychology) and Bin Huang (Center for Epidemiology and Biostatistics) on a grant examining disparities in asthma admissions.

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 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 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 Critical Care Medicine

Collaborating Faculty: Derek Wheeler, MD

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

Collaboration with 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 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

Dr. Kahn is collaborating with Dr. Peter Margolis (Health Policy and Clinical Effectiveness) on a project to improve early child health and development at a population level.

Collaboration with Health Policy and Clinical Effectiveness

Collaborating Faculty: Dr. Gerry Fairbrother; Dr. Anthony Goudie

To study the impact of chronic disease on patients at CCHMC and Medicaid in Ohio.

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 Disease

Collaborating Faculty: Bev Connelly

Collaboraing with Dr. White to improve physicians compliance with hand hygiene.

Collaboration with 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: Brian Weiss

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 a 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, MD

Both through the RNA expression grant, Gen Peds AIC asthma project, and inpatient asthma taskforce, Dr. Simmons 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, 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 Radiology

Collaborating Faculty: Lane Donnelly

Drs. Muething and Donnelly are collaborating to develop a culture of safety.

Collaboration with Sports Medicine

Collaborating Faculty: Tim Hewett, MD

Collaborating with Dr. Kalkwarf on a 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 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 McAneney, 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.

Collaboration with Division of Biostatistics and Epidemiology

Collaborating Faculty:

Dr. Yolton collaborates with Drs. Jane Khoury, Mekibib Altaye, and Heidi Sucharew on several projects relating prenatal and postnatal exposures to environmental toxicants and neurobehavioral outcomes in infants and children.

Collaboration with Division of Neonatology/Pulmonary Biology

Collaborating Faculty:

Dr. Yolton, as the principal investigator of Follow-Up Research within the Cincinnati site of the Neonatal Research Network, collaborates with Drs. Kurt Schibler, Jean Steichen, Andrew South, Beth Haberman, Tanya Cahill, and Venkata Kuppala on research and clinical projects focused on the health and neurobehavioral outcomes of high-risk infants.

Collaboration with Division of Radiology

Collaborating Faculty:

Drs. Yolton and Lanphear collaborate with Dr. Kim Cecil on studies of brain imaging in relation to exposures to environmental toxicants and neurobehavioral outcomes.

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 Vossmeyer, 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 **Tiffiny 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
- o Patrick Brady, MD
- Scott Callahan, MD
- · Nicole Cicchino, MD
- Sarah Corathers, MD
- Cynthia Delatt, MD
- o Michael Dobbs, MD
- o 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
- o Denise Somsak, MD
- Tracy Tiller, MD
- o Pamela Williams-Arya, DO

Trainees

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

Significant Accomplishments

Hospital medicine

The Division launched a section of hospital medicine in 2010. Patrick Conway, MD, MSc, was recruited to return to Cincinnati Children's as director of the section, which will function as a separate business unit within General Pediatrics. The goal is to develop into the nation's premier division of hospital medicine with exemplary integrated clinical care, research, and education. The section's three clinical teams cared for more than 7,000 patients in FY10, or nearly 25% of all inpatients at Cincinnati Children's. The clinical teams include the general inpatient service at the Burnet Campus, led by Mike Vossmeyer, MD; the surgical hospital medicine service, led by Ted Sigrest, MD; and the Liberty Campus service, led by Craig Gosdin, MD, MSHA.

A formal fellowship led by Jeff Simmons, MD, to produce academic hospitalist leaders was approved. Hospital medicine presented a proposal to the change the outcome committee to recruit a research director and research faculty, which received enthusiastic support. The group already has successfully applied for multiple grants and contracts. Finally, hospital medicine has educators leading the education of residents and medical students such as Christy White, MD (who won the resident education award), Jen O'Toole, MD, and Amy Guiot, MD.

Improving outcomes for children with asthma

The Asthma Improvement Collaborative led by Mona Mansour, MD, MS, aims to reduce asthma-related admissions and emergency visits for Hamilton County children ages 2-17 who are covered by Medicaid. Partnerships have been created with Medicaid managed care organizations (MCOs), the Cincinnati Health Department, local pharmacies, and the Legal Aid Society of Greater Cincinnati. The endeavor has required extensive collaboration within Cincinnati Children's between inpatient units, primary care clinics, the Asthma Center, the Emergency Department, Home Health and the pharmacy.

Interventions include care coordination, an asthma home health pathway and ensuring a coordinated transition to outpatient care after an asthma admission. Patients admitted to the hospital leave with all medications in hand needed to manage their asthma. MCOs are notified in real-time of the admission and are provided an asthma action plan to support optimal use of their care management services. This has resulted in a 50% decrease in the rate of children who return within 30 days for emergency asthma care or a hospital readmission.

High-risk patients also have been enrolled in care coordination, where care coordinators conduct risk assessments and leverage appropriate community resources to help families overcome barriers to optimal asthma care. The time between admissions and emergency visits for patients in care coordination is increasing. Meanwhile, the home health pathway provides a series of nurse home visits that offer home environmental barrier identification, education and self-management support for children with asthma and their families.

Division Publications

1. :

Grants, Contracts, and Industry Agreements

Grant and Contract Awards

Annual Direct / Project Period Direct

Brinkman, W

Medication Continuity in Children Treated for ADHD

National Institutes of Health

K23 MH 083027 01/01/10 - 11/30/14

\$164,300 / \$821,500

Copeland, K

The Influence of Child Care Center Environment on Children's Physical Activity

National Institutes of Health

K23 HL 088053 04/01/08 - 03/31/13

\$124,063 / \$620,315

Identifying Strategies in the Child-Care Center Environment to Promote Children's Physical Activity and Healthy Weight Gain

Robert Wood Johnson Foundation

07/01/08 - 06/30/11

\$122,680 / \$299,998

National Research Service Award for Primary Care Medicine

Health Resources & Services Admin

T32 PE 010027 07/01/08 - 06/30/11 \$341,819 / \$962,153

Dewitt, T

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

Center for Health Care Strategies, Inc.

04/01/08 - 12/31/11

\$30,012 / \$131,792

Cincinnati Center for Clinical & Transtional Sciences and Training - Research, Education and Training Program

University of Cincinnati (National Institutes of Health)

UL1 RR 026314 04/03/09 - 03/31/14 \$31,392 / \$70,001

Geraghty, S

Role of Environmental Chemicals on Lactation Outcomes

National Institutes of Health

K23 ES 014691 06/01/06 - 05/31/11 \$147,451 / \$615,787

Hornung, R

Familial Intracranial Aneurysm Study II

University of Cincinnati (National Institutes of Health)

R01 NS 039512 09/15/09 - 08/31/11 \$37,914 / \$38,486

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

University of Cincinnati (Centers for Disease Control)

U36CCU319276 10/01/06 - 09/29/10 \$24,463 / \$87,242

Analyses of Cohort Mortality/Cancer Incidence and Surveillance for the Prevalence of Positive Beryllium Lymphocyte Proliferation Test

University of Iowa (Department of Defense)

W911SR05C0055 11/01/05 - 09/28/09 \$14.667 / \$69.247

Kahn, R

Explaining Racial Disparities in Child Asthma Morbidity

National Institutes of Health

R01 AI 88116 05/01/10 - 04/30/14 \$419,828 / \$1,821,112

Kalkwarf, H

Bone Mineral Density in Childhood Study Clinical Center

National Institutes of Health

N01 HD 013329 08/01/01 - 03/31/10 \$100,000 / \$1,730,644

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 \$403,485 / \$2,037,613

Spanier, A

Low Level Prenatal Tobacco Exposure and Infant Wheeze

Flight Attendant Medical Research Institute, Inc.

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

Yolton, K

Neurobehavioral Effects of Insecticide Exposure in Pregnancy and Early Childhood

National Institutes of Health

R01 ES 015517 09/19/09 - 06/30/11 \$503,844 / \$1,009,714

Prenatal Bisphenol A and Sexually Dimorphic Neurodevelopment

University of Rochester (National Institutes of Health)

RC2 ES 018736 10/01/09 - 07/31/11 \$5,449 / \$12,919

Involuntary Tobacco Smoke Exposure and Early Human Neurobehavior

Flight Attendant Medical Research Institute., Inc.

07/01/07 - 06/30/11 \$100,000 / \$300,000

Low Level Tobacco Exposure and Infant Wheeze

Pennsylvania State University (Flight Attendant Medical Research Institute, Inc.)

07/01/09 - 06/30/10

\$60,387 / \$60,387

Prenatal Low Level Tobacco & Phthalate Exposure & Childhood Respiratory Health Pennsylvania State University (National Institutes of Health)

K23 ES 016304 07/01/09 - 06/30/10 \$22,414 / \$22,414

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	Current Year Direct	\$2,754,168
Industry Contracts		
Mansour, M		
Neighborhood Health Care, Inc.		\$ 104,123
	Current Year Direct Receipts	\$104,123
_	Tota	I \$2,858,291