Division Summary

**RESEARCH AND TRAINING DETAILS**

- **Number of Faculty**: 41
- **Number of Joint Appointment Faculty**: 3
- **Number of Support Personnel**: 49
- **Direct Annual Grant Support**: $1,671,868
- **Direct Annual Industry Support**: $137,689
- **Peer Reviewed Publications**: 62

**CLINICAL ACTIVITIES AND TRAINING**

- **Number of Clinical Staff**: 48
- **Number of Clinical Fellows**: 12
- **Number of Other Students**: 1
- **Outpatient Encounters**: 144,185

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**Significant Accomplishments**

**Reducing costs while improving outcomes**

We opened Urgent Care Burnet in the past year to reduce high-cost, unscheduled, low-acuity visits to the Emergency Department. This handled twice as many children than expected. The program, directed by **Rima Rusnak, MD**, and **Tonya Ross, RN**, also has reduced costs more than $700,000.

**Julie Miller, APN**, led a care coordination project that made flu shots available to more patients receiving emergency care as well as their family members. **Nick Coorey**, director, Clerical Staff, helped more patients connect with their medical homes or specialty needs by scheduling follow-up visits at the end of ED encounters.

**Ben Kerrey, MD**, led a team that designed interventions that markedly improved the safety and effectiveness of emergency placement of a breathing tube. **Eileen Murtagh Kurowski, MD**, led a team that improved the percentage of patients with high-risk conditions receiving timely, evidence-based care according to our benchmarks.

**Emergency Research**

Our research director, **Jackie Grupp-Phelan, MD MPH**, has led an effort to expand a study of a potential method for suicide risk screening from a single-site project into a multi-site project funded through the Pediatric Emergency Care Applied Research Network (PECARN).

Cincinnati Children's is one of 18 participants in PECARN, now in its 13th year. Important recent PECARN
advances include using a decision support tool for reducing unnecessary head CT scans, creating a registry to benchmark ED quality measures involving seven hospitals, and the testing of a screening tool for alcohol use among teens developed by the Centers for Disease Control and Prevention. Jennifer Reed, MD, was awarded a grant from the NICHD to evaluate a method for linking teens to best practices in medical care for sexually transmitted disease. Todd Florin, MD, MSCE, is supported by a Gerber Foundation grant to characterize risk severity of pediatric pneumonia in partnership with colleagues in Hospital Medicine.

Making a difference in Malawi
A partnership between Cincinnati Children’s and Kamuzu Central Hospital in Malawi has successfully completed year two. The partnership, led by Chuck Schubert, MD, seeks to build clinical capacity, improve Malawian medical education and explore collaborative research. Accomplishments with our partners include a 50 percent reduction in inpatient mortality and direct involvement as teachers for third-year medical students. Michelle Eckerle, MD, MPH, has been awarded a Fogarty Global Health Fellowship, which will allow her to spend 10 months there building research and supporting the partnership. So far, 20 residents, two Emergency Medicine Fellows, and three faculty members have completed rotations in Malawi.

Research Highlights
Mike Gittelman
Received the Ohio AAP Leonard P. Rome Award for program implementation around bike helmets statewide

Hamilton Schwartz
Appointed to the State Board of Emergency Medical, Fire and Transportation Services

Jackie Grupp-Phelan
Accepted as a member of the American Pediatric Society (APS)

Connie McAneney
Named Chair of AAP PEM Fellowship Directors Subcommittee

Kari Schneider
Received the Willis Wingert Award for best abstract by a trainee at AAP

Emergency Department
Voted #2 in the Parents Magazine 2013 list out of 10 Best Children’s Hospitals for emergency care

Tara Rhine
Awarded an R-40 Grant

Javier Gonzalez-del-Rey
Received the Walter W. Tunnessen, Jr., MD Award, Association of Pediatric Program Directors, Advancement of Pediatric Resident Education

Gary Geis
Received award for Cincinnati Top Doctors

Eunice Blackmon
Granted the 2013 YWCA Rising Stars Program

Eunice Blackmon
Named the Cincinnati Business Courier “Forty under 40” winner. Forty Under 40 recognizes Greater
Cincinnati’s next generation of young leaders and innovators who have already made a mark professionally and in the community.

**Significant Publications**


This study resulted in a robust and comprehensive view of drivers of overall satisfaction with pediatric emergency care, which is necessary to improve the delivery of family-centered care. Quantitative survey data, augmented with qualitative data, highlighted complex relationships among aspects of care important to parents, and provided details on behaviors and system characteristics that exemplify drivers of satisfaction.


This multicenter cohort study of 100,615 emergency department visits for pneumonia by children two months to 18 years demonstrated substantial and significant variation in diagnostic testing across 36 children’s hospital emergency departments for childhood pneumonia. EDs that use more testing in diagnosing CAP have higher hospitalization rates than lower-utilizing EDs. ED revisit rates were not significantly different between high- and low-utilizing EDs, suggesting an opportunity to reduce diagnostic testing for CAP without negatively affecting outcomes.


This study demonstrated that over the past 10 years Emergency Department visits for pediatric sports-related traumatic brain injury have increased, while admissions for these injuries have remained unchanged and, furthermore, length of stay and injury severity scores for the admitted children have decreased. This study prompts further exploration into the severity of traumatic brain injuries requiring admission and the reasons for those admissions with the goal of identifying high risk sports mechanisms and limiting unnecessary admission.


For children evaluated in an emergency department for intra-abdominal injury following blunt trauma, the majority of CT scans obtained are normal, yet clinicians are often left unsure whether a normal CT scan is adequate to rule out clinically important injuries in patients with persistent symptoms or signs. Using data from a prospective study in 20 pediatric EDs, a normal CT scan had the negative predictive value for any intra-abdominal injury of nearly 100%, suggest that the majority of these children may be safely discharged home, particularly if care is given to provide return instructions specific to occult bowel and pancreatic injuries.


There is a large degree of practice variability in imaging patterns for children suspected of physical abuse due to lack of guidelines from the AAP. This 13 year retrospective review identified children less than 24 months of age with clinically/forensically significant head injuries as identified by CT; it was determined that head CT should be considered in children 12 months of age, children with proximal extremity fractures, or children with prior concerns for non-accidental trauma.


Faculty, Staff, and Trainees

Faculty Members

Richard M. Ruddy, MD, Professor

Leadership Division Director; Nodal PI - Pediatric Emergency Care Applied Research Network (PECARN), Hospitals of the Midwest Emergency Research Node (HOMERUN)

Research Interests Pediatric Emergency Care Applied Research Network Multicenter Trials, Respiratory Disease and Quality Research

Javier Gonzalez del Rey, MD, MEd, Professor

Leadership Associate Director, Division of Emergency Medicine; Director, Pediatric Residency Training Programs

Research Interests Medical Education and Training

Jacqueline Grupp-Phelan, MD, MPH, Professor

Leadership The Richard Ruddy and Barbara Wriston-Ruddy Endowed Chair for Pediatric Research; Associate Director, Division of Emergency Medicine; Director of Research and Prevention Research Focus Team Leader

Research Interests Suicide Screening Mental Health Services and Treatment Engagement; Health Services Research, Cost-Effectiveness, Clinical Effectiveness and Utilization
Joseph Luria, MD, Professor

**Leadership** Associate Director, Division of Emergency Medicine; Medical Director, Emergency Department; Clinical Leadership Team

**Research Interests** Improvement Related to ED Quality; Patient Safety, and Flow

Constance McAneney, MD, MS, Professor

**Leadership** Associate Director, Division of Emergency Medicine; Director, Pediatric Emergency Medicine Fellowship; Director, Education for the Division of Emergency Medicine

**Research Interests** Medical Education

Lynn Babcock, MD, MS, Associate Professor

**Leadership** Clinical Research Focus Team Leader; Site PI, HOMERN/PECARN

**Research Interests** Traumatic Brain Injury (translational research combining neuroimaging, biomarkers, and functional outcomes) and Injury Prevention

Berkeley L. Bennett, MD, MS, Assistant Professor

**Leadership** Medical Director of the Northern Kentucky Advocacy Center

**Research Interests** Cardiac Injury in Association with Non-Accidental Trauma, Child Abuse

Seema Bhatt, MD, MS, Assistant Professor

**Research Interests** Education, Management of Dehydration

Corinne Bria, MD, MEd, Assistant Professor

**Research Interests** Education, resuscitation and simulation; teaching novice learners both procedural and medical decision-making involving acute care management of more commonly encountered clinical scenarios, initial management of life-threatening illnesses and injuries and both commonly encountered procedures and infrequent but life-saving procedures; Milestones and specifically implementation of a sustainable learner evaluation system and improvements of this process

Ted Brenkert, MD, Assistant Professor

**Research Interests** Utilizing Multimedia in Resident Education

Holly Brodzinski, MD, MPH, Assistant Professor

**Research Interests** Sedation, Sepsis Identification and Mitigation, Decision Support in Acute Appendicitis, Health Services, Global Health

Terri L. Byczkowski, PhD, MBA, Associate Professor

**Research Interests** Family Centered Care in PEM, Transition to Adult Focused Care.

Patricia Chambers, MD, Assistant Professor

**Leadership** Liberty Campus ED Assistant Medical Director

**Research Interests** Patient Experience and Communication in Healthcare, Humanism in Medicine

Judith Dexheimer, PhD, Assistant Professor

**Research Interests** Clinical Decision Support Applications in the Pediatric Emergency Department

Cinnamon Dixon, DO, MPH, Assistant Professor

**Research Interests** Global Injury Epidemiology and Trauma Surveillance, Mobile Health Interventions for Injury Prevention, and Dog Bite Prevention Education

Elena Duma, MD, Assistant Professor

**Leadership** Clinical Staff Coordinator; Director, PED 4th Year Medical Student Clerkship; Clinical
Leadership Team

**Research Interests** Pediatric Emergency Medicine, Child Abuse

**Michael FitzGerald, PhD,** Assistant Professor
  **Leadership** Education Research Focus Team Leader
  **Research Interests** Feedback in Medical Education, Assessment and Evaluation of Medical Learners

**Todd Florin, MD, MSCE,** Assistant Professor
  **Research Interests** Bronchiolitis, Pneumonia

**Gary L. Geis, MD,** Associate Professor
  **Leadership** Assistant Medical Director, The Cincinnati Children's Center for Simulation and Research
  **Research Interests** Medical Simulation, Resuscitation, Sepsis

**Michael Gittelman, MD,** Professor
  **Leadership** Co-Director, Comprehensive Children's Injury Center; Co-Director, Injury Free Coalition for Kids; Director, Injury Prevention and Advocacy Resident Course
  **Research Interests** Injury Control, Behavior Change Counseling, Community Prevention

**Selena Hariharan, MD,** Associate Professor
  **Leadership** Clinical Leadership Team; Associate Medical Director, Burnet ED
  **Research Interests** Prevention and Health Care Delivery Issues

**Richard Hornung, DrPH,** Professor
  **Research Interests** Study Design, Exposure Assessment Modeling, Longitudinal Data Analysis, Epidemiologic Methods, and Risk Estimation

**Srikant Iyer, MD, MPH,** Associate Professor
  **Leadership** Clinical Leadership Team; Assistant Vice President, HNCC Quality and Operations Improvement
  **Research Interests** Systems and Process Improvement, Patient Flow, and Acute ED Pain Management

**Laurie H. Johnson, MD,** Assistant Professor
  **Research Interests** Asthma and Resuscitation

**Stephanie Kennebeck, MD,** Associate Professor
  **Leadership** EPIC IT Leadership
  **Research Interests** Quality Care, Informatics Use in ED

**Benjamin Kerrey, MD, MS,** Assistant Professor
  **Research Interests** Improving the Process and Outcomes of Intubation of Pediatric Emergency Patients, the Use of High-Fidelity Simulation to Study and Improve Systems of Care for Critically Ill Pediatric Emergency Patients

**Melinda Mahabee-Gittens, MD, MS,** Professor
  **Research Interests** Adolescent Tobacco Prevention, Adult Tobacco Cessation, Intervention Development

**Matthew Mittiga, MD,** Assistant Professor
  **Leadership** Associate Fellowship Director
  **Research Interests** Resuscitation Team Training and Communication, Critical Care in the Pediatric ED, Pediatric Airway Management/Complications, Resident and Fellow PEM Education
Eileen Murtagh Kurowski, MD, Assistant Professor

Research Interests Emergency Care of Adult Patients with Chronic Childhood Illness, Implementation of Evidence-Based Care and Quality Improvement

Wendy Pomerantz, MD, MS, Professor

Leadership Co-Director, Injury Free Coalition for Kids; Co-Director, Safety Resource Center

Research Interests Injury and Poison Prevention, Epidemiology, Geographic Information Systems, Playground Related Injuries and Emergency Medical Services

Jennifer Reed, MD, Associate Professor

Research Interests Adolescent ED Health Issues, STI Testing & Treatment, Adolescent Research Consent Challenges, Quality Improvement

Scott Reeves, MD, Associate Professor

Leadership Liberty Campus ED Medical Director; Quality Research Focus Team Leader; Clinical Leadership Team

Research Interests Quality Care, Evidence-Based Care, Acute ED Pain Management

Tara Rhine, MD, MS, Assistant Professor

Research Interests Variations in care and outcomes for children with traumatic brain injury, advancing the emergency department care of very young children with traumatic brain injury

Andrea Rinderknecht, MD, Assistant Professor

Research Interests Critical Care in the Pediatric ED, Resuscitation Team Training & Communication, Pediatric Airway Management/Complications, Health Services ED Use Across Diseases/Referrals

Charles J. Schubert, MD, Professor

Leadership Associate Director, Pediatric Residency Training Program - Global Health

Research Interests Global Child Health and Vulnerable Populations

Hamilton P. Schwartz, MD, Associate Professor

Leadership Medical Director, Transport Team; Medical Director, Statline; Pediatric Medical Director, Cincinnati Fire Department

Research Interests Pediatric EMS and Transport Medicine

Jennifer Setlik, MD, Assistant Professor

Research Interests Abuse of Prescription Medications, Injury Prevention

Brad Sobolewski, MD, Assistant Professor

Leadership Coordinator Emergency Department Resident Education

Research Interests Education, Technology and Multimedia

Richard Strait, MD, Associate Professor

Research Interests Early Immunologic Response to Infectious Disease, Immunologic Response to Anaphylaxis, Procedural Sedation

Nathan Timm, MD, Associate Professor

Leadership CCHMC Emergency Preparedness Officer; Clinical Leadership Team

Research Interests Hospital Emergency Management, Quality Care, Overcrowding in ED

Lisa Vaughn, PhD, Professor
Research Interests  Cross-Cultural Psychology Issues Especially with Latinos, Women and Children; Community-Based Participatory Research; International Global Studies; Social Psychology Related

Shan Yin, MD, MPH, Assistant Professor
Leadership  Medical Director, Drug and Poison Information Center
Research Interests  Pediatric Toxicology

Joint Appointment Faculty Members

Evaline Alessandrini, MD, MSCE, Professor (James M. Anderson Center for Health Systems Excellence)
Research Interests  Outcomes and Risk-Adjustment in Pediatric Emergency Care, Quality Measurement

Robert Allan Shapiro, MD, Professor (Director, Mayerson Center for Safe and Healthy Children)
Research Interests  Sexually Transmitted Disease, Fractures Caused by Abuse

Kate Berz, DO, Assistant Professor (Sports Medicine)

Clinical Staff Members
• Mary Jo-Ellen Erickson, MD,  
  PEM Trained
• Catherine Gouldin, MD,  
  PEM Trained
• Nicholas Hobart-Porter, MD,  
  PEM Trained
• Lisa Lewis, MD,  
  PEM Trained
• Margaret Orcutt-Tuddenham, DO, Clinical Leadership Team,  
  PEM Trained; Medical Director, Urgent Cares; Clinical Leadership Team;
• Kristen Paddon, MD,  
  PEM Trained
• Kirsten Ahrens, MD
• Amber Anastasi, MD
• Arash Babaoff, MD
• Eunice Blackmon, MD
• Kamali Bouvay, MD
• Michael Chua, MD
• Jenny Lynn DeBruer, MD
• Kristen DeMarco, MD
• Emily Eagen, MD
• Nafeh Fananapazir, MD
• Kerry Gorman, MD
• Laura Howell, MD
• Emily Kelleher, MD
• Matthew Kinney, MD
• Joy Lippe, MD
• Gregory Middleton, MD, Clinical Leadership Team,  
  ED Clinical Leadership Team
• Joanna Nacopoulos, MD
• Matthew O’Rourke, MD
Division Collaboration

Research on Trichomonas Point of Care testing in the ED and its effect on appropriate and timely treatment. (Jennifer Reed, MD)

Adolescent and Transition Medicine » Lea Widdice, MD
Research on acceptability and feasibility of universal STI screening in the ED. (Evaline Alessandrini, MD, MSCE; Jennifer Reed, MD)

**Adolescent and Transition Medicine** » Jessica Kahn, MD, MPH

**Biostatistics and Epidemiology** » Maurizio Macaluso, DrPH

Assess factors which may predict high risk of subsequent readmission and emergency room use and to examine how well these factors collectively explain readmission risk. (Laurie Johnson, MD)

**General and Community Pediatrics** » Rob Kahn, MD, MPH

Gene expression profiles of acute asthma and subphenotypes of treatment response. (Richard Ruddy, MD; Rick Strait, MD)

**Allergy and Immunology** » Gurjit Khurana Hersey, MD, PhD

Survey study to assess physician attitudes and practices related to Palliative Sedation Therapy. (Michael FitzGerald, PhD)

**Anesthesiology** » Norbert Weidner, MS and Carrie Morgan, MD

Family engagement to reduce surgical cancelations. (Lisa Vaughn, PhD)

**Anesthesiology** » Jayant Pratap, MB BCHir, MRCPCH, FRCA

Development of program for Emergency Medicine faculty to maintain intubation skills. (Berkeley Bennett, MD, MS; Gary Geis, MD)

**Anesthesiology** » Jacqueline Morillo-Delerme

Stress and resilience in vulnerable youth. (Lisa Vaughn, PhD)

**Asthma Research** » Melinda Butsch Kovacic, MPH, PhD

Suicidal teens accessing treatment. (Jacqueline Grupp-Phelan, MD, MPH)

**Behavioral Medicine and Clinical Psychology** » Robert Ammerman, PhD

Survey study to identify bereavement services being offered and types of operational practices at other institutions. (Michael FitzGerald, PhD)

**Bereavement Services** » Claudia J. Borgman, MSW, LISW and Marcela Cameron, MSW, LISW-S

Emerge Grant: Obesity phenotype with genotyping. (Stephanie Spellman Kennebeck, MD)

**Biomedical Informatics** » Imre Solti, MD, PhD, John Harley, MD, and Nancy Crimmins, MD

Patient Identification in the Pediatric Emergency Department using Natural Language Processing Methodologies. (Judith Dexheimer, PhD; Constance McAneney, MD, MS, Stephanie Spellman Kennebeck, MD)

**Biomedical Informatics** » Imre Solti, MD, PhD

Factors associated with desaturation during RSI in the PED. (Gary Geis, MD; Benjamin Kerrey, MD, MS; Matt Mittiga, MD; Andrea Rinderknecht, MD)

**Biostatistics and Epidemiology** » Jareen Meinzen-Derr, PhD
Photovoice with BMT patients and families. (Lisa Vaughn, PhD)

**Bone Marrow Transplantation and Immune Deficiency** » Carrie Breitwieser, MSW

Novel use of serum cardiac troponin to evaluate for non-accidental trauma. (Berkeley Bennett, MD, MS; Michael Chua, MD, Cinnamon Dixon, DO, MPH; Elena Duma, MD; Melinda Mahabee-Gittens, MD, MS)

**Cardiology** » Russel Hirsch, MD

**Clinical Laboratory** » Paul Steele, MD

Creating a knowledge questionnaire for parents of children with heart disease. (Michael FitzGerald, PhD; Javier Gonzalez del Rey, MD, MEd)

**Cardiology** » Joshua Daily, MD, Eileen King, PhD, MED, Kim Downing, PhD, and Richard Ittenbach, PhD

**Heart Institute** » Bradley S. Marino, MD, MPP, MSCE

Suicide risk assessment and prevention. (Jacqueline Grupp-Phelan, MD, MPH)

**Psychiatry** » Michael Sorter, MD, PhD

**Biomedical Informatics** » John Pestian, PhD, MBA

Screening and engagement into services for adolescents with suicidal ideation in the Emergency Department. (Jacqueline Grupp-Phelan, MD, MPH)

**Psychiatry** » Sergio Delgado, MD

**Psychiatry Intake Response Team** » Linda Richey, LISW

Simulation-based training “Boot Camp” for pediatric emergency medicine and critical care fellows. (Constance McAneney, MD, MS; Matthew Mittiga, MD)

**Critical Care Medicine** » Raj Basu, MD and Kenneth Tegtmeyer, MD

**Center for Simulation and Research** » Gary Geis, MD

Catalyzing Ambulatory Research in Pneumonia Etiology and Diagnostic Innovations in Emergency Medicine (CARPE DIEM): Examining predictors and biomarkers of pediatric pneumonia severity and etiology. (Richard Ruddy, MD; Todd Florin, MD, MSCE)

**Clinical Laboratories** » Paul Steele, MD

**Infectious Diseases** » Joel Mortensen, PhD

**Hospital Medicine** » Samir Shah, MD, MSCE and Lilliam Ambroggio, MPH, PhD

**Epidemiology and Biostatistics** » Jareen Meinzen-Derr, PhD

An evaluation of a dog bite prevention intervention in the pediatric emergency department. (Cinnamon Dixon, DO, MPH)

**Clinical and Translational Science and Training** » Christopher Lindsell, PhD

Injury Free Coalition for Kids of Cincinnati (Emergency Medicine) and Safe Kids Coalition (Trauma) working together on multiple community outreach programs, including Walk Child to School. (Michael Gittelmann, MD, Wendy Pomerantz, MD, MS)

**Comprehensive Children's Injury Center** » Dawne Gardner-Davis

Population Health Injury Prevention – Goal to Reduce Injuries in Specific Hamilton County Neighborhoods by 30%
in 5 Years. (Michael Gittelman, MD, Wendy Pomerantz, MD, MS)

**General and Community Pediatrics** » Richard A. Falcone Jr., MD, MPH and Kieran Phelan, MD, MSc

Development of a knowledge test for evaluating internal QI training programs. (Michael FitzGerald, PhD)

**Education and Learning** » Daniel McLinden, EdD

Concept mapping methodology, social network analysis. (Lisa Vaughn, PhD)

**Education and Learning** » Daniel McLinden, EdD

Development of on-line pediatric education for EMTs and paramedics. (Hamilton Schwartz, MD, Ken Crank, NEMP-P)

**Education and Training** » Dan McLinden, EdD and Lynn Standen

The effect of a novel fluid calculator on the error rates in fluid calculation in diabetic ketoacidosis. (Selena Hariharan, MD, MS)

**Endocrinology** » Nancy Crimmins, MD

Implementation of a two bag intravenous fluid system to treat diabetic ketoacidosis. (Selena Hariharan, MD, MS)

**Biostatistics and Epidemiology** » Nancy Crimmins, MD

Parental tobacco cessation and adolescent smoking prevention. (Melinda Mahabee-Gittens, MD, MS)

**Biostatistics and Epidemiology** » Jane Khoury, PhD

**Behavioral Medicine and Clinical Psychology** » Robert Ammerman, PhD, APBB

Implementing the Safety Resource Center into a new location. (Michael Gittelman, MD, Wendy Pomerantz, MD, MS)

**Family Resource Center** » Emily Lee and Rich Falcone, MD, MPH

Time to antibiotics in gastroenterology patients with central lines. (Selena Hariharan, MD, MS)

**Gastroenterology, Hepatology and Nutrition** » Conrad Cole, MD, MPH, MSc

Exploring human IgG-mediated anaphylaxis. (Richard Strait, MD)

**Gastroenterology, Hepatology and Nutrition** » Lee Denson, MD

Social determinants of health, poverty. (Lisa Vaughn, PhD)

**General and Community Pediatrics** » Lisa Klein, MD

Community research teams. (Lisa Vaughn, PhD)

**General and Community Pediatrics** » Camille Graham, MD

Advocacy for residents and house staff including Injury prevention and advocacy course. (Charles Schubert, MD, Michael Gittelman, MD, Javier Gonzalez del Rey, MD, MEd, Wendy Pomerantz, MD, MS)

**General Pediatrics and House Staff Office** » Andy Beck, MD, Melissa Klein, MD, and Ndidi Unaka, MD

Monitoring the use of simulation training on technical and teamwork skills of personnel, care processes, and
serious safety events on Extracorporeal Membrane Oxygenation. (Gary Geis, MD, MBA, Benjamin Kerrey, MD, MS)

**General Pediatrics/Thoracic Surgery** » Richard Falcone, Jr, MD, MPH and Margot Daugherty, RN

Global child health program for the residency program. (Charles Schubert, MD)

**Global Health** » Mark Steinhoff, MD, MPH

Pediatric injury and trauma surveillance in Campinas, Brazil. (Cinnamon Dixon, DO, MPH)

**Global Health** » Mark Steinhoff, MD, MPH

Assessing normal ovarian volumes and developing a composite score to predict ovarian torsion. (Jennifer Reed, MD)

**Pediatric and Adolescent Gynecology** » Lesley Breech, MD, Beth Schwartz, MD, and Laura Kruger, MD

ED utilization for low-acuity illness. (Srikant Iyer, MD, MPH, Joseph Luria, MD)

**Health Network by Cincinnati Children's** » Terry Lindquist

Improving adherence to the recently published community-acquired pneumonia national guidelines. (Eileen Murtagh Kurowski, MD, MPH, Srikant Iyer, MD, MPH)

**Hospital Medicine** » Lilliam Ambroggio, MPH, PhD, Samir Shah, MD, MSCE, and Angela Statile, MD

Risk factors for revisit in children with community-acquired pneumonia; Radiographic pneumonia in children who present to the ED with asthma exacerbations. (Todd Florin, MD, MSCE)

**Hospital Medicine** » Lilliam Ambroggio, MPH, PhD

Modeling safe sleep behaviors for children admitted to the hospital. (Michael Gittelman, MD)

**Hospital Medicine** » Eunice Blackmon, MD, Sam Hanke, MD, and Christina White, MD

Census-Tract Determinants of Hospitalization for Pediatric Lower Respiratory Tract Infection. (Todd Florin, MD, MSCE)

**Hospital Medicine** » Samir Shah, MD, MSCE

**General and Community Pediatrics** » Andrew Beck, MD MPH

Standard evaluation and treatment pathway for neonatal HSV in the ED. (Eileen Murtagh Kurwoski, MD, MPH)

**Hospital Medicine** » Laura Brower, MD, Amanda Schondelmeyer, MD, and Samir Shah, MD, MSCE

**Infectious Diseases** » David Haslam, MD

Role of IgG1 in arthritis, role of IgG1 in cryoglobulinemia induced glomerulonephritis, immunopathology of TRALI, rapid desensitization of IgE and IgG mediated anaphylaxis, exploring human IgG-mediated anaphylaxis. (Richard Strait, MD)

**Immunobiology** » Fred Finkelman, MD and Markat Khodoun, PhD

Role of complement and its receptors in IgG-mediated anaphylaxis. (Richard Strait, MD)

**Immunobiology** » Joerg Kohl, PhD
Asthma Innovation Lab: Improving outcomes for adolescents with asthma. (Terri Byczkowski, PhD, MBA)

Center for Innovation in Chronic Disease Care » Maria Britto, MD, MPH

Improvement advisor for the Joint Commission on Congenital Heart Disease Improvement Collaborative. (Srikant Iyer, MD, MPH)

James M. Anderson Center for Health Systems Excellence » Carole Lannon, MD, MPH

Risk stratification to efficiently diagnose appendicitis. (Holly Brodzinski, MD, MPH, Evaline Alessandrini, MD, MSCE)

Pediatric General and Thoracic Surgery » Dan vonAllmen, MD
Biomedical Informatics » Andrew Spooner, MD, MS, FAAP
Radiology » Alex Towbin, MD

Clinical decision rules to discriminate bruising caused by physical child abuse from bruising caused by accidental trauma. (Berkeley Bennett, MD, MS)

Mayerson Center for Safe and Healthy Children » Gabriel Meyers and Kathi Makoroff, MD

Assessing utility of video television in the acute care setting. (Hamilton Schwartz, MD)

Section of Neonatology, Perinatal and Pulmonary Biology » Beth Haberman, MD
Critical Care Medicine » Becky Baute, RN and Derek Wheeler, MD

Pediatric concussion: pilot study using advanced magnetic resonance imaging techniques. (Lynn Babcock, MD, MS)

Neurosurgery » Todd Maugans, MD

Time to antibiotics in oncology patients with a central line. (Selena Hariharan, MD, FAAP)

Oncology » Brian Weiss, MD

Monitoring the implementation of a novel system of care for critical airway obstruction in the Emergency Department. (Benjamin Kerrey, MD, MS)

Otolaryngology » Charles Meyer IV, MD
Emergency Services » Jennifer Oehler, RN and Mary Dewald
Center for Simulation and Research » Gary Geis, MD

Immunopathology of TRALI, role of IGG1 in cryoglobulinemia induced glomerulonephritis. (Richard Strait, MD)

Pathology » Keith Stringer, MD, Shanmakhappa Shiva Kumar, PhD, and David Witte, MD

Axonal injury in mild TBI. SMART Trial. (Lynn Babcock, MD, MS)

Physical Medicine and Rehabilitation » Shari Wade, PhD and Brad Kurowski, MD, MS

Axonal injury in mild TBI. (Lynn Babcock, MD, MS)

Proteomics Core (Cincinnati Children's) » Prasad Devarajan, MD
Proteomics Core (UC) » Ken Greis, PhD

An assessment of voluntary adolescent mental health screening and referral in a children's hospital emergency
department. (Jacqueline Grupp-Phelan, MD, MPH)

**Psychiatry Intake Response Team** » Linda Richey, LISW

CT Scan with Contrast Alone (CT IV): The role of intra-abdominal fat (IAF) on the sensitivity of CT IV to visualize the normal appendix. (Lynn Babcock, MD, MS)

**Radiology** » Daniel Podberesky, MD

Diffuse Tensor Imaging and TBI (Axonal injury). (Lynn Babcock, MD, MS)

**Radiology** » Blaise Jones, MD and James Leach, MD

**Pediatric Neuroimaging Research Consortium** » Weihong Yuan, PhD

Comprehensive Children’s Injury Center (CCIC). (Michael Gittelman, MD, Lynn Babcock, MD, MS, Wendy Pomerantz, MD, MS)

**Rehabilitation** » Bradley Kurowski, MD and Shari Wade, PhD

**General and Community Pediatrics** » Richard Falcone, MD, MPH, Kieran Phelan, MD, MSc, Kim Price, MA, CHES, CPST, Robert Shapiro, MD, and Earl Siegel, PharmD

**Radiology** » Blaise Jones, MD

**Sports Medicine** » Chuck Mehlman, DO, MPH

Role of IgG1 in collagen induced arthritis. (Richard Strait, MD)

**Rheumatology** » Sherry Thornton, PhD

Patient/family engagement with lupus. (Lisa Vaughn, PhD)

**Rheumatology** » Rina Mina, MD

Improvement in identification of sepsis through the development of a formal resident simulation-based curriculum (grant funded); Therapeutic hypothermia and cardiac arrest (grant funded). (Gary Geis, MD)

**Critical Care Medicine** » Derek Wheeler, MD and Amy Bunger

Monitoring the use and effectiveness of simulation training during mock codes on clinical units. (Gary Geis, MS)

**Critical Care Medicine** » Ken Tegtmeyer, MD

Development and implementation of a procedural-based training course for endotracheal intubation and central venous catheter placement. (Benjamin Kerrey, MD, MS)

**Center for Simulation and Research** » Gary Geis, MD

**Critical Care Medicine** » Kamal Abulebda, MD and Ken Tegtmeyer, MD

Monitoring the use of simulation training for CCHMC RCNIC staff in order to improve both clinical and behavioral outcomes and subsequently improve the quality and safety of care that neonatal patients receive at CCHMC.

Provide education and assessment using *in situ* simulation at outside hospitals as part of the Perinatal Outreach Program in order to improve both clinical and behavioral outcomes and subsequently improve the quality and safety of care that neonatal patients receive at these institutions. (Gary Geis, MD)

**Section of Neonatology, Perinatal and Pulmonary Biology** » Beth Ann Johnson, MD and Kelly Schultz, MD

Development and implementation of a simulation-based training course for continual renal replacement therapy
Concussion Education in the HS Setting. (Michael Gittelman, MD, Wendy Pomerantz, MD, MS)
   Trauma Services » Richard Falcone, MD, MPH
   Physical Medicine and Rehabilitation » Brad Kurowski, MD, MS

Concussion Collaborative for Primary Care Physicians. (Michael Gittelman, MD, Wendy Pomerantz, MD, MS)
   Trauma Services » Courtney Schaiper, MS
   Physical Medicine and Rehabilitation » Brad Kurowski, MD, MS

Head Injury Clinic. (Michael Gittelman, MD, Wendy Pomerantz, MD, MS)
   Trauma Services » Richard Falcone, MD, MPH
   Physical Medicine and Rehabilitation » Bradley Kurowski, MD, MS
   Neurology » Todd Arthur, MD and Abigail Johnson
   Sports Medicine » Kelsey Logan, MD

Grants, Contracts, and Industry Agreements

<table>
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<tr>
<th>Grant and Contract Awards</th>
<th>Annual Direct</th>
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<tr>
<td>BENNETT, B</td>
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<tr>
<td>Clinical Decision Rules to Discriminate Bruising Caused by Physical Child Abuse</td>
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<td>National Institutes of Health (Children's Memorial Hospital)</td>
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<tr>
<td>R01 HD 060997</td>
<td>05/30/11-03/31/16</td>
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<td>BHATT, S</td>
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<td>HIV Testing in Ohio Emergency Departments</td>
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<td>Ohio Department of Health</td>
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<td>01/01/14-12/31/16</td>
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<td>BYCZKOWSKI, T</td>
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<td>Resilience in Emergency Department Workers Following Workplace Violence</td>
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<td>Robert Wood Johnson Foundation (University of Cincinnati)</td>
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<td>FLORIN, T</td>
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<tr>
<td>Biomarkers and Risk Stratification in Pediatric Pneumonia</td>
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<td>National Institutes of Health (University of Cincinnati)</td>
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<td>KL2 TR 000078</td>
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<td>Procalcitonin and Risk Stratification in Pediatric Pneumonia</td>
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<td>The Gerber Foundation</td>
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GITTELMAN, M
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<tr>
<th>Program</th>
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<tbody>
<tr>
<td>Healthy Tomorrows Partnership For Children Program</td>
<td>Health Resources &amp; Services Administration</td>
<td>07/01/13-06/30/18</td>
<td>$9,091</td>
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<td>Ohio Children's Trust Fund Program</td>
<td>Ohio Children's Trust Fund</td>
<td>07/01/13-06/30/14</td>
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<tr>
<td>Teen Driving: A Contract for Safety</td>
<td>American Academy of Pediatrics(The Allstate Foundation)</td>
<td>07/01/13-06/30/14</td>
<td>$2,727</td>
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<td>GRUPP-PHELAN, J</td>
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<td>STAT-ED Suicidal Teens Accessing Treatment after an Emergency Department Visit</td>
<td>Centers for Disease Control and Prevention</td>
<td>R01 CE 002129 09/30/12-09/29/15</td>
<td>$306,269</td>
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<td>Teen Alcohol Screening in the Pediatric Emergency Care Applied Research Network</td>
<td>National Institutes of Health(Rhode Island Hospital)</td>
<td>R01 AA 021900 09/05/12-08/31/17</td>
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<tr>
<td>Cincinnati Center for Clinical and Translational Sciences and Training - K30 Program</td>
<td>National Institutes of Health(University of Cincinnati)</td>
<td>UL1 TR 000077 04/03/09-03/31/15</td>
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<td>Exploring a Cessation Intervention for Low Income Smokers in an Emergency Setting</td>
<td>National Institutes of Health</td>
<td>K22 CA 163747 09/22/11-08/31/14</td>
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<td>REED, J</td>
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<td>Decreasing Teen STI Prevalence through Universal Emergency Department Screening</td>
<td>National Institutes of Health</td>
<td>K23 HD 075751 05/01/14-04/30/18</td>
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<td>Variations in Care and Outcomes for Children with Traumatic Brain Injury</td>
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<td>R40 MC 26806 04/01/14-03/31/15</td>
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<td>Emergency Medical Services for Children: Network Development Demonstration Project</td>
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<td>U03 MC 22684 09/01/11-08/31/15</td>
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<td>City of Cincinnati Immunization Project</td>
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<td>Name</td>
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<td>STRAIT, R</td>
<td>Prospective Cohort Study of Severe Bronchiolitis and Risk of Recurrent Wheezing</td>
<td>National Institutes of Health (Massachusetts General Hospital)</td>
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<td>VAUGHN, L</td>
<td>Visionary Grant: Physical and Mental Aspects of Stress and Resilience in Vulnerable Youth</td>
<td>American Psychological Foundation (University of Cincinnati)</td>
<td>01/16/14-12/31/14</td>
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**Current Year Direct**

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<td>BHATT, S</td>
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**Current Year Direct Receipts**

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**Total**

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<td>$1,809,557</td>
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