

2014 Research Annual Report

Emergency Medicine



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

Division Photo



Row 1: S Kennebeck, L Vaughn
Row 2: M FitzGerald, T Byczkowski, S Hariharan, J Dexheimer, L Babcock
Row 3: J Grupp-Phelan, R Strait, C Schubert, J Gonzalez del Rey, T Florin, C Bria, R Ruddy

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

Byczkowski TL, Fitzgerald M, Kennebeck S, Vaughn L, Myers K, Kachelmeyer A, Timm N. **A comprehensive view of parental satisfaction with pediatric emergency department visits.** *Ann Emerg Med.* 2013 Oct;62(4):340-50.

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.

Florin TA, French B, Zorc JJ, Alpern ER, Shah SS. **Variation in emergency department diagnostic testing and disposition outcomes in pneumonia.** *Pediatrics.* 2013 Aug;132(2):237-44.

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.

Hanson HR, Pomerantz WJ, Gittelman M. **ED utilization trends in sports-related traumatic brain injury.** *Pediatrics.* 2013 Oct;132(4):e859-64.

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.

Kerrey BT, Rogers AJ, Lee LK, Adalgais K, Tunik M, Blumberg SM, Quayle KS, Sokolove PE, Winsor DH, Miskin, ML, Kuppermann N, Holmes JF, Pediatric Emergency Care Applied Research Network (PECARN). **Multicenter study of the risk of intra-abdominal injury in children after normal abdominal computed tomography scan results in the emergency department.** *Ann Emerg Med.* 2013 Oct;62(4):319-26.

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.

Wilson PM, Chua M, Care M, Greiner MV, Keeshin B, Bennet B. **Utility of head computed tomography in children with a single extremity fracture.** *J Pediatr.* 2014 Jun;164(6):1274-9.

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.

Division Publications

1. Alpern ER, Clark AE, Alessandrini EA, Gorelick MH, Kittick M, Stanley RM, Dean JM, Teach SJ, Chamberlain JM, Pediatric Emergency Care Applied Research N. **Recurrent and high-frequency use of the emergency department by pediatric patients.** *Acad Emerg Med.* 2014; 21:365-73.
2. Baioni K, Gneuhs M, Dickman L, Weber K, Hueneman M, Timm N. **Preparing for optimal outcomes: a live evacuation exercise.** *AORN J.* 2013; 98:71-6.
3. Beauchamp GA, Ho ML, Yin S. **Variation in Suicide Occurrence by Day and during Major American Holidays.** *J Emerg Med.* 2014; 46:776-81.
4. Bechtel K, Bennett B. **Evaluation of sexual abuse in children and adolescents.** In: DM Lindberg, AB Middleman, JE Drutz, eds. *UpToDate.* Waltham, MA: Wolters Kluwer; 2014.
5. Bechtel K, Bennett B. **Management and sequelae of sexual abuse in children and adolescents.** In: DM Lindberg, AB Middleman, JE Drutz, eds. *UpToDate.* Waltham, MA: Wolters Kluwer; 2014.
6. Bigham M, Bigelow A, Schwartz H, Gothard M. **401: Intubation in Pediatric/Neonatal Critical Care Transport: A National Benchmark.** *Critical Care Medicine.* 2013; 41:A96.
7. Bigham MT, Schwartz HP. **Who should transport pediatric patients: EMS or specialty critical care teams?.** *AAP News.* 2013; 34:25-25.
8. Bigham MT, Schwartz HP. **Measure, Report, Improve: The Quest for Best Practices for High-Quality Care in Critical Care Transport.** *Clinical Pediatric Emergency Medicine.* 2013; 14:171-179.
9. Britto MT, Vockell AL, Munafo JK, Schoettker PJ, Wimberg JA, Pruett R, Yi MS, Byczkowski TL. **Improving outcomes for underserved adolescents with asthma.** *Pediatrics.* 2014; 133:e418-27.
10. Brodzinski H, Iyer S. **Behavior changes after minor emergency procedures.** *Pediatr Emerg Care.* 2013; 29:1098-101.
11. Byczkowski TL, Fitzgerald M, Kennebeck S, Vaughn L, Myers K, Kachelmeyer A, Timm N. **A comprehensive view of parental satisfaction with pediatric emergency department visits.** *Ann Emerg Med.* 2013; 62:340-50.
12. Byczkowski TL, Munafo JK, Britto MT. **Family perceptions of the usability and value of chronic disease web-based patient portals.** *Health Informatics J.* 2014; 20:151-62.
13. Chadwick DL, Giardino AP, Alexander R, Thackeray JD, Essmio-Jenssen D. **Pediatric screening for intimate partner violence.** *Child Maltreatment: A Clinical Guide and Reference.* St. Louis, MO: STM Learning, Inc.; 2014.
14. Dalziel SR, Thompson JM, Macias CG, Fernandes RM, Johnson DW, Waisman Y, Cheng N, Acworth J, Chamberlain JM, Osmond MH, Plint A, Valerio P, Black KJ, Fitzpatrick E, Newton AS, Kuppermann N, Klassen TP, Pediatric Emergency Research Networks HNWG. **Predictors of severe H1N1 infection in children presenting within Pediatric Emergency Research Networks (PERN): retrospective case-control study.** *BMJ.* 2013; 347:f4836.
15. Deleger L, Brodzinski H, Zhai H, Li Q, Lingren T, Kirkendall ES, Alessandrini E, Solti I. **Developing and evaluating an automated appendicitis risk stratification algorithm for pediatric patients in the emergency department.** *J Am Med Inform Assoc.* 2013; 20:e212-20.
16. Dexheimer JW, Kennebeck S. **Modifications and integration of the electronic tracking board in a pediatric emergency department.** *Pediatr Emerg Care.* 2013; 29:852-7.
17. Dixon CA, Pomerantz WJ, Hart KW, Lindsell CJ, Mahabee-Gittens EM. **An evaluation of a dog bite prevention intervention in the pediatric emergency department.** *J Trauma Acute Care Surg.* 2013; 75:S308-12.
18. Florin TA, French B, Zorc JJ, Alpern ER, Shah SS. **Variation in emergency department diagnostic testing and disposition outcomes in pneumonia.** *Pediatrics.* 2013; 132:237-44.

19. Freedman SB, Hall M, Shah SS, Kharbanda AB, Aronson PL, Florin TA, Mistry RD, Macias CG, Neuman MI. **Impact of increasing ondansetron use on clinical outcomes in children with gastroenteritis.** *JAMA Pediatr.* 2014; 168:321-9.
20. Garcia M, Taylor G, Babcock L, Dillman JR, Iqbal V, Quijano CV, Wootton-Gorges SL, Adelgais K, Anupindi SA, Sonavane S, Joshi A, Veeramani M, Atabaki SM, Monroe DJ, Blumberg SJ, Ruzal-Shapiro C, Cook LJ, Dayan PS. **Computed tomography with intravenous contrast alone: the role of intra-abdominal fat on the ability to visualize the normal appendix in children.** *Acad Emerg Med.* 2013; 20:795-800.
21. Gardner AH, Fitzgerald MR, Schwartz HP, Timm NL. **Evaluation of regional hospitals' use of children in disaster drills.** *Am J Disaster Med.* 2013; 8:137-43.
22. Guiot A, FitzGerald M, Lehmann C. **Reducing the Dosage: Decreasing Pediatric Clerkship Didactics.** *The Open Medical Education Journal.* 2014; 7:1-5.
23. Hanson HR, Pomerantz WJ, Gittelman M. **ED utilization trends in sports-related traumatic brain injury.** *Pediatrics.* 2013; 132:e859-64.
24. Hariharan S. **Physician recruitment and retention: a physician's perspective.** *Physician Exec.* 2014; 40:44-6, 48.
25. Holmes JF, Lillis K, Monroe D, Borgialli D, Kerrey BT, Mahajan P, Adelgais K, Ellison AM, Yen K, Atabaki S, Menaker J, Bonsu B, Quayle KS, Garcia M, Rogers A, Blumberg S, Lee L, Tunik M, Kooistra J, Kwok M, Cook LJ, Dean JM, Sokolove PE, Wisner DH, Ehrlich P, Cooper A, Dayan PS, Wootton-Gorges S, Kuppermann N, Pediatric Emergency Care Applied Research N. **Identifying children at very low risk of clinically important blunt abdominal injuries.** *Ann Emerg Med.* 2013; 62:107-116 e2.
26. Huppert JS, Taylor RG, St Cyr S, Hesse EA, Reed JL. **Point-of-care testing improves accuracy of STI care in an emergency department.** *Sex Transm Infect.* 2013; 89:489-94.
27. Jain S, Cheng J, Alpern ER, Thurm C, Schroeder L, Black K, Ellison AM, Stone K, Alessandrini EA. **Management of Febrile Neonates in US Pediatric Emergency Departments.** *Pediatrics.* 2014; 133:187-95.
28. Joyce CN, Giuliano JS, Jr., Gothard MD, Schwartz HP, Bigham MT. **Specialty pediatric transport in primary care or urgent care settings.** *Air Med J.* 2014; 33:71-5.
29. Kaminski GM, Schoettker PJ, Alessandrini EA, Luzader C, Kotagal U. **A comprehensive model to build improvement capability in a pediatric academic medical center.** *Acad Pediatr.* 2014; 14:29-39.
30. Kanis JM, Timm NL. **Chlorpromazine for the treatment of migraine in a pediatric emergency department.** *Headache.* 2014; 54:335-42.
31. Kendi S, Zonfrillo MR, Seaver Hill K, Arbogast KB, Gittelman MA. **A national, cross-sectional survey of children's hospital-based safety resource centres.** *BMJ Open.* 2014; 4:e004398.
32. Kerrey BT, Rogers AJ, Lee LK, Adelgais K, Tunik M, Blumberg SM, Quayle KS, Sokolove PE, Wisner DH, Miskin ML, Kuppermann N, Holmes JF, Pediatric Emergency Care Applied Research N. **A multicenter study of the risk of intra-abdominal injury in children after normal abdominal computed tomography scan results in the emergency department.** *Ann Emerg Med.* 2013; 62:319-26.
33. Kharbanda AB, Hall M, Shah SS, Freedman SB, Mistry RD, Macias CG, Bonsu B, Dayan PS, Alessandrini EA, Neuman MI. **Variation in resource utilization across a national sample of pediatric emergency departments.** *J Pediatr.* 2013; 163:230-6.
34. Khodoun MV, Kucuk ZY, Strait RT, Krishnamurthy D, Janek K, Clay CD, Morris SC, Finkelman FD. **Rapid desensitization of mice with anti-FcγRIIb/FcγRIII mAb safely prevents IgG-mediated anaphylaxis.** *J Allergy Clin Immunol.* 2013; 132:1375-87.
35. Kiesler J, Vaughn LM, Kaur G. **"Voicing" the social determinants of health on the backside of a horse racetrack.** *J Health Care Poor Underserved.* 2013; 24:1074-88.

36. Kim J, Reed JL. **Refining metabolic models and accounting for regulatory effects.** *Curr Opin Biotechnol.* 2014; 29C:34-38.
37. Leonard JR, Jaffe DM, Kuppermann N, Olsen CS, Leonard JC, for the Pediatric Emergency Care Applied Research Network Cervical Spine Study G. **Cervical Spine Injury Patterns in Children.** *Pediatrics.* 2014; 133:e1179-e1188.
38. Lerner EB, Dayan PS, Brown K, Fuchs S, Leonard J, Borgialli D, Babcock L, Hoyle JD, Jr., Kwok M, Lillis K, Nigrovic LE, Mahajan P, Rogers A, Schwartz H, Soprano J, Tsarouhas N, Turnipseed S, Funai T, Foltin G. **Characteristics of the pediatric patients treated by the pediatric emergency care applied research network's affiliated EMS agencies.** *Prehosp Emerg Care.* 2014; 18:52-9.
39. Mahabee-Gittens EM, Chen C, Huang B, Gordon JS. **The acceptability of incorporating a youth smoking prevention intervention in the pediatric emergency department.** *J Health Care Poor Underserved.* 2014; 25:787-800.
40. Mahabee-Gittens EM, Stone L, Gordon JS. **Pediatric emergency department is a promising venue for adult tobacco cessation interventions.** *Nicotine Tob Res.* 2013; 15:1792-3.
41. Melzer-Lange MD, Zonfrillo MR, Gittelman MA. **Injury prevention: opportunities in the emergency department.** *Pediatr Clin North Am.* 2013; 60:1241-53.
42. Mushtag SB, Dexheimer JM, Anders S. **Information display and ergonomics.** In: JM Ehrenfeld, M Cannesson, eds. *Monitoring Technologies in Acute Care Environments.* New York: Springer; 2014:35-40.
43. Namjou B, Keddache M, Marsolo K, Wagner M, Lingren T, Cobb B, Perry C, Kennebeck S, Holm IA, Li R, Crimmins NA, Martin L, Solti I, Kohane IS, Harley JB. **EMR-linked GWAS study: investigation of variation landscape of loci for body mass index in children.** *Front Genet.* 2013; 4:268.
44. Patterson MD, Geis GL. **On the Move: Simulation to Improve and Assure Transport Team Performance.** *Clinical Pediatric Emergency Medicine.* 2013; 14:214-222.
45. Philibert I, Gonzalez Del Rey JA, Lannon C, Lieh-Lai M, Weiss KB. **Quality improvement skills for pediatric residents: from lecture to implementation and sustainability.** *Acad Pediatr.* 2014; 14:40-6.
46. Pomerantz WJ, Gittelman MA, Ho M, Hornung RW. **Can the reduction of pediatric injury rates be sustained using a community-based approach?** *J Trauma Acute Care Surg.* 2013; 75:S276-80.
47. Ragsdale JR, Vaughn LM, Klein M. **Characterizing the adequacy, effectiveness, and barriers related to research mentorship among junior pediatric hospitalists and general pediatricians at a large academic institution.** *Hosp Pediatr.* 2014; 4:93-8.
48. Sanchez-Pinto N, Giuliano JS, Schwartz HP, Garrett L, Gothard MD, Kantak A, Bigham MT. **The impact of postintubation chest radiograph during pediatric and neonatal critical care transport.** *Pediatr Crit Care Med.* 2013; 14:e213-7.
49. Schnadower D, Tarr PI, Gorelick MH, O'Connell K, Roskind CG, Powell EC, Rao J, Bhatt S, Freedman SB. **Validation of the modified Vesikari score in children with gastroenteritis in 5 US emergency departments.** *J Pediatr Gastroenterol Nutr.* 2013; 57:514-9.
50. Schneider K, Kennebeck S, Madden L, Campbell A. **Hair tourniquet of the circumvallate papillae: a potentially "hairy" situation.** *Pediatr Emerg Care.* 2013; 29:924-5.
51. Schumacher DJ, Bria C, Frohna JG. **The quest toward unsupervised practice: promoting autonomy, not independence.** *JAMA.* 2013; 310:2613-4.
52. Shaw KN, Lillis KA, Ruddy RM, Mahajan PV, Lichenstein R, Olsen CS, Chamberlain JM. **Reported medication events in a paediatric emergency research network: sharing to improve patient safety.** *Emerg Med J.* 2013; 30:815-9.
53. Sheehan B, Nigrovic LE, Dayan PS, Kuppermann N, Ballard DW, Alessandrini E, Bajaj L, Goldberg H, Hoffman J, Offerman SR, Mark DG, Swietlik M, Tham E, Tzimenatos L, Vinson DR, Jones GS, Bakken S,

- Pediatric Emergency Care Applied Research N. **Informing the design of clinical decision support services for evaluation of children with minor blunt head trauma in the emergency department: a sociotechnical analysis.** *J Biomed Inform.* 2013; 46:905-13.
54. Sobolewski B, Richey L, Kowatch RA, Grupp-Phelan J. **Mental health follow-up among adolescents with suicidal behaviors after emergency department discharge.** *Arch Suicide Res.* 2013; 17:323-34.
55. Stroud MH, Trautman MS, Meyer K, Moss MM, Schwartz HP, Bigham MT, Tsarouhas N, Douglas WP, Romito J, Hauff S, Meyer MT, Insoft R. **Pediatric and neonatal interfacility transport: results from a national consensus conference.** *Pediatrics.* 2013; 132:359-66.
56. Ulusoy C, Kim E, Tuzun E, Huda R, Yilmaz V, Poulas K, Trakas N, Skriapa L, Niarchos A, Strait RT, Finkelman FD, Turan S, Zisimopoulou P, Tzartos S, Saruhan-Direskeneli G, Christadoss P. **Preferential production of IgG1, IL-4 and IL-10 in MuSK-immunized mice.** *Clin Immunol.* 2014; 151:155-63.
57. Vaughn LM, Drabik S, Kissling A. **Healthy girls and healthy communities: two sides of the same coin?** *J Community Med Health Educ.* 2014; 4.
58. Vaughn LM, Jacquez F, McLinden D. **The use of concept mapping to identify community-driven intervention strategies for physical and mental health.** *Health Promot Pract.* 2013; 14:675-85.
59. Wagers B, Gittelman M, Bennett B, Pomerantz W. **Prevalence of male adolescent dating violence in the pediatric emergency department.** *J Trauma Acute Care Surg.* 2013; 75:S313-8.
60. Wilson PM, Chua M, Care M, Greiner MV, Keeshin B, Bennett B. **Utility of head computed tomography in children with a single extremity fracture.** *J Pediatr.* 2014; 164:1274-9.
61. Yen K, Kuppermann N, Lillis K, Monroe D, Borgialli D, Kerrey BT, Sokolove PE, Ellison AM, Cook LJ, Holmes JF. **Interobserver agreement in the clinical assessment of children with blunt abdominal trauma.** *Acad Emerg Med.* 2013; 20:426-32.
62. Zonfrillo MR, Melzer-Lange M, Gittelman MA. **A comprehensive approach to pediatric injury prevention in the emergency department.** *Pediatr Emerg Care.* 2014; 30:56-62.

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**

- **Jennifer Porter, MD**
- **Janice Roeder, MD**
- **Rima Rusnak, MD, Clinical Leadership Team,**
ED Clinical Leadership Team
- **Lori Schroeder, MD, PhD**
- **Kristin Stackpole, MD**
- **Karen Sullivan, MD**
- **Karen Szczepanski, MD**
- **Elizabeth Templin, MD**
- **Gregory Walker, MD**
- **Evan Yeung, MD**
- **Angela Brown, RN, CNP**
- **Karen Ford, RN, CNP**
- **Jamie Gerdemann, RN, CNP**
- **Kristina Kaufmann, RN, CNP**
- **Jennifer Kelley, RN, CNP**
- **Julie Miller, RN, CNP**
- **Amy Mulcahy, RN, CNP**
- **Sara Newman, RN, CNP**
- **Stacie Richmond, RN, CNP**
- **Michelle Schrand, RN, CNP**
- **Molly Stenger, RN, CNP**
- **Anika Surratt, RN, CNP**
- **Michelle Widecan, RN, CNP Clinical Leadership Tm,**
Clinical Leadership Team;

Trainees

- **Jessica Kanis, MD**, PL-VII, Medical University of South Carolina, Charleston, SC
- **Brit Anderson, MD**, PL-VI, Children's Memorial Hospital McGaw Northwestern, Chicago, IL
- **Michelle Eckerle, MD**, PL-VI, Cincinnati Children's Hospital Medical Center, Cincinnati, OH
- **Greg Faris, MD**, PL-VII, Children's Memorial Hospital McGaw Northwestern, Chicago, IL
- **Kari Schneider, MD**, PL-VI, St. Louis Children's Hospital, St. Louis, MO
- **Steven Chan, MD**, PL-V, Children's Hospital Pittsburgh, Pittsburgh, PA
- **RoseAnn Cyriac, MD**, PL-V, Washington University, St. Louis, MO
- **Constance Gong, MD**, PL-V, Emory University School of Medicine, Atlanta, GA
- **Holly Hanson, MD**, PL-IV, Northeast Ohio Medical University Rootstown, OH
- **Emily Sterrett, MD**, PL-V, Eastern Virginia Medical School, Norfolk, VA
- **Adam Vukovic, MD**, PL-V, University of Cincinnati College of Medicine, Cincinnati, OH
- **Paria Wilson, MD**, PL-IV, University of Louisville School of Medicine, Louisville, KY

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-Deleme

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 Gittelman, 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 those 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

(CRRT). (Gary Geis, MD)

Nephrology and Hypertension » Stuart Goldstein, MD and Theresa Mottes, RN

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

Grant and Contract Awards

Annual Direct

BENNETT, B

Clinical Decision Rules to Discriminate Bruising Caused by Physical Child Abuse

National Institutes of Health(Children's Memorial Hospital)

R01 HD 060997

05/30/11-03/31/16

\$92,536

BHATT, S

HIV Testing in Ohio Emergency Departments

Ohio Department of Health

01/01/14-12/31/16

\$50,000

BYCZKOWSKI, T

Resilience in Emergency Department Workers Following Workplace Violence

Robert Wood Johnson Foundation(University of Cincinnati)

09/01/12-08/31/14

\$7,397

FLORIN, T

Biomarkers and Risk Stratification in Pediatric Pneumonia

National Institutes of Health(University of Cincinnati)

KL2 TR 000078

04/01/13-03/31/15

\$131,839

Procalcitonin and Risk Stratification in Pediatric Pneumonia

The Gerber Foundation

01/01/14-12/31/16

\$84,044

GITTELMAN, M

Healthy Tomorrows Partnership For Children Program

Health Resources & Services Administration(American Academy of Pediatrics)

07/01/13-06/30/18

\$9,091

Ohio Children's Trust Fund Program

Ohio Children's Trust Fund(American Academy of Pediatrics)

07/01/13-06/30/14

\$4,545

Teen Driving: A Contract for Safety

American Academy of Pediatrics(The Allstate Foundation)

07/01/13-06/30/14

\$2,727

GRUPP-PHELAN, J**STAT-ED Suicidal Teens Accessing Treatment after an Emergency Department Visit**

Centers for Disease Control and Prevention

R01 CE 002129

09/30/12-09/29/15

\$306,269

Teen Alcohol Screening in the Pediatric Emergency Care Applied Research Network

National Institutes of Health(Rhode Island Hospital)

R01 AA 021900

09/05/12-08/31/17

\$1,350

Cincinnati Center for Clinical and Translational Sciences and Training - K30 Program

National Institutes of Health(University of Cincinnati)

UL1 TR 000077

04/03/09-03/31/15

\$4,610

MAHABEE-GITTENS, M**Exploring a Cessation Intervention for Low Income Smokers in an Emergency Setting**

National Institutes of Health

K22 CA 163747

09/22/11-08/31/14

\$178,798

REED, J**Decreasing Teen STI Prevalence through Universal Emergency Department Screening**

National Institutes of Health

K23 HD 075751

05/01/14-04/30/18

\$121,748

RHINE, T**Variations in Care and Outcomes for Children with Traumatic Brain Injury**

Health Resources & Services Administration

R40 MC 26806

04/01/14-03/31/15

\$63,853

RUDDY, R**Emergency Medical Services for Children: Network Development Demonstration Project**

Health Resources & Services Administration

U03 MC 22684

09/01/11-08/31/15

\$554,681

SCHUBERT, C**City of Cincinnati Immunization Project**

City of Cincinnati

01/01/12-12/31/16

\$41,535

STRAIT, R**Prospective Cohort Study of Severe Bronchiolitis and Risk of Recurrent Wheezing**

National Institutes of Health(Massachusetts General Hospital)

U01 AI 087881

09/01/11-08/31/16

\$2,345

VAUGHN, L**Visionary Grant: Physical and Mental Aspects of Stress and Resilience in Vulnerable Youth**

American Psychological Foundation(University of Cincinnati)

01/16/14-12/31/14

\$14,500

Current Year Direct \$1,671,868

Industry Contracts

BHATT, S

Baxter Healthcare Corp

\$8,864

RUDDY, R

AspenBio Pharma, Inc

\$128,825

Current Year Direct Receipts \$137,689

Total \$1,809,557