



**SUSAN B. MEISTER
CHILD HEALTH EVALUATION
AND RESEARCH CENTER**
MICHIGAN MEDICINE



**TO ADVANCE THE HEALTH
AND WELL-BEING OF ALL
CHILDREN, ADOLESCENTS,
AND FAMILIES THROUGH
RESEARCH AND
EDUCATION**

The **SUSAN B. MEISTER CHILD HEALTH EVALUATION AND RESEARCH CENTER (CHEAR)** of the University of Michigan is a multidisciplinary health services research center, based in the Division of General Pediatrics. Our work is multidisciplinary, encompassing epidemiology, health policy, health services research, general pediatrics, and pediatric subspecialties. Collaboration is essential to our work, and we have partners at more than 10 schools and colleges on campus. Our research is funded by federal agencies (NIH, AHRQ, CDC, PCORI, HRSA), foundations, state government, and philanthropy. We are committed to being a policy resource and actively identify current high-priority issues in child health for the focus of our research studies.

Our strength comes from the faculty, fellows, and staff who work together to make a difference in the lives of children through our research. Our **FACULTY INVESTIGATORS** are the core faculty members located on-site within the CHEAR Center who serve as Principal Investigators and conduct the research projects within the Center. Our **FACULTY EXECUTIVE REPRESENTATIVES** are comprised of colleagues from our partner schools on the University of Michigan campus. Our **RESEARCH AND ADMINISTRATIVE STAFF** are a group of talented and dedicated individuals who provide the support and expertise necessary to facilitate all aspects of our operations.

The CHEAR Center with its dedicated team of faculty, trainees, research personnel, and administrative staff work collaboratively to pursue a diverse set of leading clinical and translational research activities relating to child health policy, health services research, population health, epidemiology, implementation science, emerging technologies, and other cutting-edge topics.

All these individuals come together to support our mission to advance the health and well-being of all children, adolescents, and families through data driven research and education.



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FISCAL YEAR 2024 EXECUTIVE SUMMARY

The CHEAR Center plays an integral in the research and education activities of the Department of Pediatrics with substantial research productivity.

RESEARCH HIGHLIGHTS:

- Total external research expenditures for FY24: \$7,488,060 (\$6.46m FY23)
- Total external grant awarded dollars for FY24: \$7,117,210 (\$8m FY23)
- 91 active research projects; 70 grant submissions
- 5 consensus & guideline reports & 123 peer-reviewed publications in high-impact journals including: JAMA, JAMA Network Open, JAMA Pediatrics, Pediatrics, and Health Affairs.
- 56 presentations at national and internal meetings
- CHEAR faculty participation in 40 national and international committees

HIGH IMPACT CLINICAL AND POLICY RESEARCH FOCUSES ON THE FOLLOWING TOPICS (AMONG OTHERS):

- Evaluating the impact of COVID-19 on health outcomes and health care delivery in pediatric populations
- Defining & measuring health equity & disparities in care for children and their families
- Coordinating policy changes, healthcare services improvements, and informing new treatments through the Michigan Sickle Cell Data Collection Program and the Pediatric Sickle Cell Improvement Collaborative
- Creating new models of interdisciplinary post-hospital care of children who survive PICU (Pediatric Intensive Care Unit) hospitalization
- Opioid research that, among other topics, guides quality improvement initiatives, Medicaid policy decisions, and identifies racial/ethnic inequities
- Advance hypotheses used in research and policy development through utilizations of IQVIA database (including the clinical, genetic, and radiology data)

TRAINING & EDUCATION MILESTONES:

- CHEAR Fellowship program: graduated 4 fellows, two current fellows
- Ongoing seminar series, CHEAR Resident Rotation, CHEAR Summer Internship program, & other offerings
- Annual Susan B. Meister Lecture in Child Health Policy
- 2025 Theme: Music, Health, and Wellness across the Lifespan: Pathways to Improve Child Health and Policy
- 2024 Theme: The Impact of Neighborhoods on Child Health: Opportunities for Better Policy
- Fulbright Scholar in residence at CHEAR

CHEAR CENTER LEADERSHIP

DONNA MARTIN, MD, PHD

Chair, Department of Pediatrics

Ravitz Foundation Endowed Professor of Pediatrics and Communicable Diseases
Professor of Human Genetics

RYAN BARBARO, MD, MS

Associate Director for Research, CHEAR

Clinical Associate Professor, Pediatric Critical Care Medicine

KAO-PING CHUA, MD, PHD

Co-Director, CHEAR Fellowship Programs

Associate Professor, Department of Pediatrics

SARAH L. REEVES, PHD

Associate Director for Education, CHEAR

Associate Professor, Department of Pediatrics

JEREMY ADLER, MD, MSC

Interim Director, Susan B. Meister Child Health Evaluation and Research Center

Clinical Professor, Department of Pediatrics
Division of Pediatric Gastroenterology

CHEAR FACULTY EXECUTIVE REPRESENTATIVES

JEREMY ADLER, MD, MSC

School of Medicine

ROBIN JACOB

Institute for Social Research

DEBRA CHOPP

Law School

ALISON L. MILLER, PHD

School of Public Health

AMY COHN, PHD

College of Engineering

HANNA PHAN, PHARM.D, FCCP, FPPA

School of Pharmacy

NATALIE COLABIANCHI, PHD

School of Kinesiology

NATASHA PILKAUSKAS, PHD, MA, MPP

Gerald R. Ford School of Public Policy

MARGHERITA FONTANA, DSS, PHD

School of Dentistry

LISA A. PROSSER, PHD, MS

School of Medicine

GARY L. FREED, MD, MPH

School of Medicine

SARAH STODDARD, PHD, RN, CNP,

FSAHM

School of Nursing

TODD I. HERRENKOHL, PHD, MSW

School of Social Work

CHRISTINA WEILAND, EDD, MED

Marsal Family School of Education

CHEAR CENTER FACULTY INVESTIGATORS 2006-2024

JEREMY ADLER, MD, MSC*

RYAN BARBARO, MD, MS*

ERIN CARLTON, MD, MSC*

KAREN CHIU, MD

KAO-PING CHUA, MD, PHD*

SARAH CLARK, MPH*

MATT DAVIS, MPH, PHD

AMANDA DEMPSEY, MD, PHD, MPH

KEVIN DOMBKOWSKI, DRPH, MS*

GARY FREED, MD, MPH*

SAMIR GADEPALLI, MD, MS, MBA*

MATTHEW GREENHAWT, MD

JOSEPH KOHNE, MD*

JOYCE LEE, MD, MPH*

SARAH LIPSON, PHD, EDM

MICHELLE MACY, MD, MS

ZUBIN MODI, MD*

KATHRYN MOSELEY, MD, MPH

SUPARNA MULLICK, MD

FOLAFOLUWA ODETOLA, MB CHB, MPH*

LISA PROSSER, PHD, MS*

SARAH REEVES, PHD, MPH*

DAVID SANDBERG, PHD*

ELLEN SELKI, MD, MPH

MORI STERN, MD

COURTNEY STREUR, MD, MSC*

LILY HSU STRONG, MD

BETH TARINI, MD, MS

SUSAN WOOLFORD, MD, MPH*

ESTHER YOON, MD

** DENOTES CURRENT APPOINTMENT*

EDUCATION

The CHEAR Center offers nationally recognized educational opportunities for students, residents, and fellows interested in learning about and preparing for careers in health services and health policy research regarding children and families. Students and trainees have opportunities to participate in multidisciplinary research studies relevant to current issues in child health. Linkages are in place with state agencies as well as with faculty from the Schools of Business, Law, Medicine, Public Health, Social Work, Nursing, Pharmacy, Dentistry, and Public Policy.

CHEAR FELLOWSHIP:

Established in 2019, the CHEAR Fellowship program has supported six fellows. Their remarkable success is evidenced by achievement of tenure track positions, tremendous research productivity through academic products (appendix I), presentations, and extramural funding (appendix II).

CHEAR FELLOW HISTORY 2019 - 2024:

JOE KOHNE, MD, 2019 - 2021: Dr. Kohne's research focuses on evaluating and improving long-term outcomes after pediatric respiratory failure, specifically Pediatric Acute Respiratory Distress Syndrome. He is currently an Assistant Professor, Department of Pediatrics, Division of Pediatric Critical Care Medicine, University of Michigan.

CARA JANUSZ, PHD, 2020 - 2022: Dr. Janusz's research focuses on optimizing vaccination and vaccine-preventable disease outcomes in pediatric populations. She is currently an Assistant Professor, Department of Implementation Science, Wake Forest University School of Medicine.

CAROLINE HOGAN, MD, 2021 - 2023: Dr. Hogan's research focuses on immunization policy and healthcare access for children. She is currently an Intern, U.S. Department of Health and Human Services.

MELINDA RUSHING, PHD, 2022 - 2024: Dr. Rushing's research focuses on leveraging secondary data sources to reduce health disparities in chronic conditions. She is currently an Assistant Professor, Edward J. Bloustein School of Planning and Public Policy, Rutgers University.

JOANNE CONSTANTINE, PHD, 2023 - 2025: Dr. Constantine's research focuses on the intersection of health policies, access to care, health outcomes, and social determinants of health.

NINA HILL, PHD, 2024 - 2026: Dr. Hill's research focuses on transitions from pediatric to adult care among children with medical complexity. She is a National Clinician Scholar and T32 Fellow.

CHEAR SUMMER INTERNSHIP PROGRAM:

The CHEAR Summer Institute provides a novel program for undergraduate students to explore pediatric health services research with a community 8 9 engagement component. The goal of this program is to advance the field of pediatric health services research by increasing the pipeline of researchers with early exposure to pediatric health services research, critical issues in health disparities, and community engaged work.

This program runs annually from June-August and includes trainees at all levels. A variety of schools are represented each year, such as the School of Public Health, School of Information, College of LS&A, College of Engineering, and Undergraduate Medicine. The most recent cohort of four students included two from the University of Michigan, one from Michigan State University, and one from the University of California, Los Angeles.

Within the Program, trainees have numerous opportunities to interact and learn from faculty, both at the CHEAR Center and at the Institute for Healthcare Policy & Innovation (IHPI). The Program culminates with student presentations, which are attended by faculty and staff within the CHEAR Center.

RESEARCH

CHEAR is dedicated to examining essential aspects of child health and well-being that includes vaccinations, newborn screening, obesity, asthma, and costs of care. Active and past research projects (Appendix III & IV) are guided by our mission to advance the health and well-being of all children, adolescents, and families through research and education. Findings have been published in peer-reviewed journals (Appendix V) with CHEAR research supported through a strong portfolio funded by governments, foundations, and private donors (Appendix VI). Our investigators prioritize research that is directly relevant to current health care policy to inform decisions made by state and federal policymakers.

DATA SCIENCE:

CHEAR researchers are exploring health care data using innovative data science methods to find answers to challenging research questions. CHEAR investigators partner with collaborators to develop new methods to aggregate, integrate, and analyze pre-existing datasets to explore high-priority pediatric health issues not possible previously. These research questions require a fresh approach to how to acquire data and evaluate information exchanges that include electronic health record (EHR) systems, population health registries and novel linkages among secondary data sources. Our work to develop innovative data science methods is firmly rooted in the principles of health informatics, public health, and clinical practice. These capabilities enable our ability to partner with public health agencies, health plans, and health services providers to improve pediatric

population health.

POLICY AND COMMUNICATION RESEARCH:

CHEAR investigators draw on the Center's long history of research in survey design and development to assess public perceptions regarding clinical and policy issues important to child health utilizing well-established survey methods and relationships.

OUTCOMES RESEARCH:

Studies evaluating and defining health outcomes have critical clinical and policy implications. Projects include decision-making in vaccination policy, newborn screening programs, surgical care, the impact of hospital transfers on family dynamics, parental stress and family, and financial impacts.

LEARNING HEALTH SYSTEMS:

Learning health systems are intentionally designed to integrate research and translate evidence-based findings seamlessly at the point of care. Investigators are leveraging MiChart – the patient-centric, Epic-based electronic health record system at Michigan Medicine used by clinicians for documentation. Faculty from the CHEAR Center and the Division of General Pediatrics are partnering to design the tools used by clinicians at the point of care to provide clinical decision support and to collect processes of care and outcome data for improvement and for research. Furthermore, they are convening stakeholders (clinicians, families, and researchers) to collaborate and develop new approaches to clinical care and new research questions for improving child health.

RESEARCH PROGRAMS

FOLLOWING OUTCOMES AFTER CRITICAL ILLNESS (FOCI):

The FOCI program is a sustainable, longitudinal follow-up program for children who survive critical illness and their families. Through characterizing the long-term effects of critical illness, specifically sepsis, ARDS and AKI, the team is positioned to develop innovative interventions to efficiently and effectively limit the medical, psychosocial, and educational impact of critical illness to both children and families.

A TALE OF SIX CITIES: PERSPECTIVES FROM PEDIATRIC CRITICAL CARE MEDICINE PHYSICIANS WHO PROVIDED CARE TO CRITICALLY ILL ADULTS DURING THE COVID-19 PANDEMIC:

This program is a qualitative clinician interview study gathering the experience of pediatric critical care medicine (PCCM) faculty at hospitals across the U.S. where pediatric intensive care unit resources were redeployed to provide care to critically ill adults. The goal of this program is to determine the physician-level and perceived institutional drivers of physician re-deployment, challenges faced,

and lessons learnt by PCCM physicians who provided care to critically ill adult patients with COVID-19.

PEDIATRIC INTENSIVE CARE WORKGROUP (PICEW):

The PICEW provides mentorship for CHEAR affiliated faculty. The mentorship is provided by teams of faculty from within the CHEAR Center and core faculty in the IHPI master's program (and researchers) to collaborate and develop new approaches to clinical care and new research questions for improving child health.

THE MICHIGAN COVID-19 RESEARCH PROGRAM IN PEDIATRICS (MI-CORP):

MI-CORP leverages CHEAR's substantial expertise in administrative data and provides data for CHEAR faculty to conduct groundbreaking work. Additionally, regularly updated reports will be provided for the public on: 1. Trends in outpatient visits and preventive service use, 2. Trends in the number and indications for pediatric ED visits, including policy-relevant conditions such as depression, suicidal ideation, and child abuse, 3. Trends in the number and indications of hospitalizations by children, 4. Trends in pediatric prescription drug dispensing for acute and chronic conditions.

SUSAN B. MEISTER LECTURE IN CHILD HEALTH POLICY

This annual lecture is sponsored by the Susan B. Meister Child Health Evaluation and Research Center (CHEAR)—within the Department of Pediatrics—and the CHEAR Faculty Executive Representatives—a collaborative of the Institute for Social Research and the Schools of Business, Dentistry, Education, Engineering, Kinesiology, Law, Medicine, Nursing, Pharmacy, Public Health, Public Policy, and Social Work. Each year, CHEAR hosts the Susan B. Meister Lecture in Child Health Policy that highlights speakers from a variety of disciplines to explore important child health topics.

2024: THE IMPACT OF NEIGHBORHOODS ON CHILD HEALTH: OPPORTUNITIES FOR BETTER POLICY

- Keynote: Adrienne Todman, Secretary, U.S. Department of Housing and Urban Development
- Panelists: Sara Adar, ScD, MHS, Jennifer Erb-Downward, MPH, Alison L. Miller, PhD, Carla O'Connor, PhD
- Closing Remarks: Kathleen Cagney, PhD, MPP, Director, Institute for Social Research, University of Michigan

2023: THE IMPACT OF SCHOOL CLOSURES ON CHILD HEALTH AND DEVELOPMENT: A CALL FOR INTERDISCIPLINARY ACTION

- Keynote: Donna Mazyck, MS, RN, NCSN, CAE, FNASN, Executive

- Director, National Association of School Nurses
 - Panelists: Tiffany Munzer, MD, Donald J. Peurach, PhD, Julie Ribaud, LMSW, IMH-E®
 - Closing Remarks: Elizabeth Birr Moje, PhD, Dean, George Herbert Mead Collegiate Professor of Education and Arthur F. Thurneau Professor, Marsal Family School of Education, University of Michigan
- 2022: EFFECTS OF THE PANDEMIC ON TRAUMA AND ABUSE WITHIN FAMILIES AND COMMUNITIES: EXPERTS ON CHILD HEALTH AND AGING COME TOGETHER TO CLARIFY THINKING FOR THE FUTURE
- Keynote: Terry Fulmer, PhD, RN, FAAN, President, The John A. Hartford Foundation
 - Panelists: Debra Chopp, JD, Todd I. Herrenkohl, PhD, MSW, Preeti N. Malani, MD, MSJ
- 2019: MAKING GOVERNMENT WORK TO REDUCE CHILD HUNGER
- Keynote: Robert Gordon, JD, Director, Michigan Department of Health and Human Services
 - Panelists: Kelly Orringer, M.D., FAAP, Natasha Pilkauskas, Ph.D.
- 2018: THE EFFECTS OF THE OPIOID CRISIS ON CHILDREN AND FAMILIES
- Keynote: Linda Smith, Director, Early Childhood Development Initiative, Bipartisan Policy Center
- 2017: REFUGEE & MIGRANT CHILD HEALTH: UPDATES & OPPORTUNITIES
- Keynote: Curi Kim, M.D., M.P.H., Director, Division of Refugee Health, Office of Refugee Resettlement, Administration for Children and Families, U.S. Department of Health and Human Services
- 2016: CONCUSSION & YOUTH SOCCER: BALANCING THE RISKS OF RECREATIONAL SPORTS FOR CHILDREN
- Keynotes: Brianna Scurry, Legendary U.S. Goalkeeper, Two Time Olympic Gold Medalist & Steve W. Berman, J.D., Managing Partner, Hagens Berman
- 2015: THE POWER OF THE PUBLIC EYE: DISNEYLAND, MEASLES, AND PUBLIC POLICY
- Keynote: Karen Smith, M.D., M.P.H., Director of the California Department of Public Health and State Health Officer
- 2014: MOMENT OF OPPORTUNITY: REDUCING HEALTH DISPARITIES AND ADVANCING HEALTH EQUITY
- Keynote: J. Nadine Gracia, M.D, M.S.C.E., Deputy Assistant Secretary for Minority Health, U.S. Department of Health and Human Services

- 2013: THE POWER OF PLAY
- Keynote: Duncan J. Billing, LLB, Executive Vice President and Chief Development Officer, Hasbro, Inc.
- 2012: OUR MILITARY'S CHILDREN: INSIGHTS FROM OVER A DECADE OF WAR
- Keynote: Dr. Jo Ann Rooney, J.D., Ed.D., Former Under Secretary of Defense for Personnel and Readiness
- 2010: THE CHALLENGES OF CHILD HEALTH IN THE DEVELOPING WORLD
- Keynote: Tachi Yamada, M.D., President, Bill and Melinda Gates Foundation Global Health Program
- 2009: SCIENCE, THE MEDIA AND RESPONSIBILITY FOR CHILD HEALTH
- Keynotes: Brian Deer, Investigative Reporter, The Sunday Times of London & Catherine DeAngelis, M.D., M.P.H., Editor-in-Chief, The Journal of the American Medical Association
- 2008: BRIDGING THE WORLDS OF BUSINESS AND PUBLIC HEALTH
- Keynote: John O. Agwunobi, M.D., M.B.A., M.P.H., Senior Vice President, Wal-Mart Stores, Inc., President, Professional Services Division, Wal-Mart Stores, Inc., Former U.S. Assistant Secretary for Health, Department of Health and Human Services
- 2006: CORPORATE RESPONSIBILITY IN CHILDREN'S HEALTH
- Keynote: Stephen W. Sanger, M.B.A., Chairman of the Board, Chief Executive Officer, General Mills

APPENDIX

I. CHEAR FELLOWSHIP ACADEMIC PRODUCTS

Section I.I Peer Reviewed Publications

1. Carlton EF, Kohne JG, Hensley MK, Prescott HC. Comparison of Outpatient Health Care Use Before and After Pediatric Severe Sepsis. *JAMA Netw Open*. Sep 1 2020;3(9):e2015214. doi:10.1001/jama.networkopen.2020.15214
2. Dahmer MK, Flori H, Sapru A, Kohne JG, et al. Surfactant Protein D Is Associated With Severe Pediatric ARDS, Prolonged Ventilation, and Death in Children With Acute Respiratory Failure. *Chest*. Sep 2020;158(3):1027-1035. doi: 10.1016/j.chest.2020.03.041
3. Kohne JG, Dahmer MK, Weeks HM, et al. Impact of Bilateral Infiltrates on Inflammatory Biomarker Levels and Clinical Outcomes of Children With Oxygenation Defect. *Crit Care Med*. Jun 2020;48(6):e498-e504. doi: 10.1097/CCM.0000000000004316
4. Lopez-Fernandez YM, Smith LS, Kohne JG, et al. Prognostic relevance and interobserver reliability of chest-imaging in pediatric ARDS: a pediatric acute respiratory distress incidence and epidemiology (PARDIE) study. *Intensive Care Med*. Jul 2020;46(7):1382-1393. doi: 10.1007/s00134-020-06074-7
5. Carr BD, Kohne J, Ralls MW, Kohne JG, et al. Venogram before long-interval repeat cannulation for pediatric extracorporeal membrane oxygenation. *Perfusion*. Mar 2021 ;36(2):204-206. doi: 10.1177 /0267659120925351
6. Gorga SM, Carlton EF, Kohne JG, Barbaro RP, Basu RK. Renal angina index predicts fluid overload in critically ill children: an observational cohort study. *BMC Nephrol*. Oct 11_2021;22(1):336. doi:10.1186/s12882-021-02540-6
7. Gorga SM, Carlton EF, Kohne JG, Barbaro RP, Basu RK. Consensus acute kidney injury criteria integration identifies children at risk for long-term kidney dysfunction after multiple organ dysfunction syndrome. *Pediatr Nephrol*. Jun 2021 ;36(6):1637- 1646. doi: 10.1007 /s00467-020-04865-0
8. Hogan CM, Parzuchowski AS, Lyu X, Goldstick J, Resnicow K. Characterization of US State COVID-19 Vaccine Incentive Programs. *JAMA Netw Open*. Oct 3 2022;5 (10):e2235328. doi: 10.1001/jamanetworkopen.2022.35328
9. Hogan CM, Waselewski ME, Szachta P, Wolff C, Amaro X, Chang T. Perceptions of COVID-19 Vaccine Incentives Among Adolescents

and Young Adults. *JAMA Netw Open*. Jun 1 2022;5(6):e2216628. doi:10.1001/jamanetworkopen.2022.16628

10. Janusz CB, Anderson TC, Leidner AJ, Lee GM, Dooling K, Prosser LA. Projected risks and health benefits of vaccination against herpes zoster and related complications in US adults. *Hum Vaccin Immunother*. Nov 30 2022;18(5):2060668. doi: 10.1080/21645515.2022.2060668
11. Kohne JG, Carlton EF; Gorga, SM; Gebremariam, A; Quasney, MW; Zimmerman, J; Reeves, SL; Barbaro, RP. Oxygenation Severity Categories and Long-Term Quality of Life among Children who Survive Septic Shock. *J Pediatr Intensive Care*. 2022; doi: 10.1055/s-0042-1756307.
12. Janusz CB, Doan IT, Gebremariam A, et al. A Cost-Effectiveness Analysis of Population-Level Dental Caries Prevention Strategies in US Children. *Acad Pediatr*. Jul 2024;24(5):765-775. doi:10.1016/j.acap.2024.02.006
13. Rushing M, Horiuchi S, Zhou M, Reeves, SL, et al. Emergency department 30-Day emergency department revisits among people with sickle cell disease: Variations in characteristics. *Pediatr Blood Cancer*. Jul 15 2024:e31188. doi:10.1002/pbc.31188

Section I.II Conference Abstracts

1. Alajbegovic, K, Epler, K, Stillwell, T, Popova, A, & Kohne, JG. (2021). 305: Acute Respiratory Failure in a Healthy Adolescent: It's Not Always COVID-19. In *Critical Care Medicine Vol. 49* (pp. 139). Wolters Kluwer. doi:10.1016/j.annccm.2021.07.007
2. Carlton, EF, Kohne, JG, Iwashyna, T, Prescott, H. (2020, January 1). Outpatient Healthcare Utilization Is Increased Following Severe Sepsis Hospitalization in Children. In *Society of Critical Care Medicine*. Orlando, FL.
3. Gorga, S, Carlton, EF, Kohne, JG, Barbaro, RP. (2020, January 1). Kidney Injury Incidence in Multiple Organ Dysfunction Syndrome. In *Critical Care Medicine*.
4. Carlton, EF, Kohne, JG, Iwashyna, T, Prescott, H. (2020). 1559: Outpatient Healthcare Utilization Is Increased Following Severe Sepsis Hospitalization in Children. In *Critical Care Medicine Vol. 48* (pp. 755). Wolters Kluwer. doi: 10.1097/CCM.000064814453680.00
5. Gorga, S, Carlton, EF, Kohne, JG, Barbaro, RP. (2020). 1432: Kidney Injury Incidence in Multiple Organ Dysfunction Syndrome. In

Critical Care Medicine Vol. 48 (pp. 693). Wolters Kluwer.

6. Janusz CB, Doan T, Rose A Gebremariam A, Fontana M, Yanca E, Prosser LA. A costeffectiveness analysis of risk-based prevention strategies for dental caries in US Children. JSPOR Annual Meeting. May 2022. [Rated among top 5% best submissions]
7. Hogan, CM, Waselewski, ME, Wolff, CA, Szachta, P, Amaro X, Chang, T. 574: Youth Experiences and Perceptions of COVID-19 Vaccine Incentives. Pediatric Academic Societies Meeting. April 2022.
8. Hogan, CM, Parzuchowski, AS, Lyu, X, Goldstick, J, Resnicow, K. Characterization of U.S. State COVID-19 Vaccine Incentive Programs. Academy Health Annual Research Meeting. June 2022.
9. Rushing, M, Horiuchi, S, Kayle, M, Reeves, SL, Paulukonis, S. Analysis of Medicaid Covered Sickle Cell Patients with 30-Day ED Revisits vs. No Revisit Academy Health Research Meeting. June 2022.
10. Hogan, CM. County-level effectiveness evaluation of state COVID-19 vaccine incentive programs. NCSP Annual Meeting. November.2022
11. Rushing; M, Horiuchi, S, Kavanagh, P, Reeves, SL, Paulukonis, S. Identifying Patterns and Predictors of Hydroxyurea Use after Initiation Among Californian Medicaid Recipients Living with Sickle Cell Disease. Michigan Pediatric Research Symposium, May 2022; Academy Health Research Meeting, June 2023.
12. Rushing, M, Plegue, M, Dombkowski, KJ, Latta, K, Woolford, S., Reeves, SL. Changes in Hydroxyurea Adherence During the COVID 19 Pandemic among Children and Young Adults with Sickle Cell Disease. Michigan Medicine Pediatric Research Symposium, May 2024; Pediatric Academic Societies, April 2024.
13. Constantin, J, Chua, KP. Association Between Medicaid Unwinding and Buprenorphine Dispensing Among Patients with Pre-Existing Buprenorphine Use. Academy Health Research Meeting. June 2024.
14. Constantin, J, Chua, KP. Association between Telehealth Initiation of Stimulant Therapy and New Substance Use Disorders. Academy Health Research Meeting. June 2024.

II. CHEAR FELLOWSHIP GRANT FUNDING

Principal Investigator: Kohne, Joseph G.

Following Outcomes after Critical Illness (FOCI)
University of Michigan Department of Pediatrics Charles Woodson
Pilot Research Award
07/2021 – 07/2022, \$20,000

Principal Investigator: Rushing, Melinda

Artificial Intelligence/Machine Learning Consortium to Advance
Health Equity and Research Diversity (AIM-HEAD) Research
Fellowship
National Institute of Health
07/2022 – 07/2023

Principal Investigator: Kohne, Joseph G.

Trajectory Prediction in Pediatric ARDS (TRAP-PARDS)
National Institute of Health, 1K12TR004374-01
05/2023 – 04/2025, \$242,500

Trainee: Rushing, Melinda

Principal Investigator: Reeves, Sarah

Opportunities to optimize the receipt of preventive services among
children with sickle cell anemia: A Mixed Methods Approach –
Administrative Diversity Supplement
Agency for Healthcare Research and Quality
03/2024 – 08/2024, \$83,736

III. ACTIVE CHEAR RESEARCH PROJECTS

- Advisory Committee on Heritable Disorders in Newborns and Children (ACHDNC) Evidence Review Group
- ASCEND ARDS in Children and ECMO initiation strategies impact on Neuro-Development
- BISCUIT - the Biologic dISContinUatIon sTudy
- C.S. Mott Children's Hospital National Poll on Children's Health
- Decision Support for Differences of Sex Development
- Defining Successful Outcomes in Disorders (or Differences) of Sex Development
- Disorders of Sex Development: A Clinician Survey
- Disorders/Differences of Sex Development (DSD) - Translational Research Network
- ECMO-CENTRAL (ECMO-Core Elements Needed for Trials Regulation And quality of Life) Academic Research Consortium (ARC)
- Evaluating Data Quality of Electronic Blood Lead Testing Results
- Evaluating Health and Economic Outcomes for Preventing Caries Risk in Underserved Children
- Evaluating Policy Interventions to Decrease Excessive and Risky Perioperative Opioid Prescribing
- Evaluation of Electronic Health Record (EHR) Interoperability and Analytic Support for the Michigan Care Improvement Registry (MCIR)

- Evaluation of Michigan's 1115 Behavioral Health Waiver Demonstration Project
- Evaluation of the Triple Crown Project
- Family Well-Being Research Network ("FAM-NET"): Measuring Family Well-Being across the Lifespan
- Flint Registry
- HLA for Predicting Risk of Anti-Drug Antibodies
- Implementing doula care programs in Medicaid to advance racial equity in severe maternal morbidity
- Improving quality and equity of opioid use disorder treatment using a multi-state Medicaid research network
- Improving racial equity in opioid use disorder treatment in Medicaid
- Innovations in Newborn Screening Interoperability Program (INBSI) Evaluation
- Insurance-Related Barriers to Medications for Opioid Use Disorder in Private and Medicaid plans
- Michigan Child Health Equity Collaborative (Mi-CHEC)
- Michigan Sickle Cell Data Collection (MiSCDC) Program
- Opportunities to optimize the receipt of preventive services among children with sickle cell anemia: A Mixed Methods Approach
- Pathways to Care and Health Outcomes among DSD Patients
- Pediatric Sickle Cell Improvement Collaborative
- Preventing Fistulas and Strictures among Children with Crohn's Disease
- Program for Equity in Adolescent & Child Health (PEACH)
- Receipt, disparities, and impact of early primary care follow-up after pediatric critical illness
- Targeted therapy for pediatric Crohn's disease: Tissue levels of medications and cytokines
- Tracking Dental Care Utilization among Medicaid Populations
- Using Default Opioid Prescription Settings to Limit Excessive Opioid Prescribing to Adolescents and Young Adults
- VoCHI - Cost-effectiveness analysis of Vaccination to Prevent COVID-19
- VoCHI - Eliciting Preferences and Weights for Equity and Efficiency: A Methodological Scoping Review

IV. PAST CHEAR RESEARCH PROJECTS

- Adult Immunization - Rural Intervention
- Clinical Outcomes of Methotrexate Binary Therapy in Practice (COMBINE)
- Costs and Benefits of Interoperability between Provider Practice Electronic Health Records and a Statewide Immunization Registry

- Deriving a Health State Classification System to Measure Health Utilities for Pediatric Populations Based on the PedsQL
- Estimating the economic burden of RSV infection and cost-effectiveness of a hypothetical RSV vaccine
- Evaluating the Comparative Effectiveness of Medical Therapy for Prevention of Perianal Fistula Development in Pediatric Crohn's Disease
- Family Education for Confirmed Newborn Screen
- Health-Related Quality of Life: A Pediatric Clinical and Research Tool
- Identifying Opportunities to Improve Hydroxyurea Therapy Initiation and Adherence among Children with Sickle Cell Disease
- Joint Initiative in Vaccine Economics, Phase 6: Estimating the economic burden of RSV infection and cost-effectiveness of a hypothetical RSV vaccine (JIVE 6)
- Joint Initiative in Vaccine Economics, Phase 6: Estimating the quality of life lost due to COVID-19 illness and adult vs pediatric preferences for COVID-19 vaccination (JIVE 6)
- Leveraging E-Health to Improve Care for Pediatric Diabetes: A New Approach to Care Delivery for Children and Families
- Location Initiated Individualized Texts for Adolescent Health (LIITAH)
- Location Initiated Individualized Texts for African American Adolescent Health (LIITA3H)
- Mastering Adolescents' Knowledge and Engagement in Research (MAKE: Research)
- National Voices Project
- Physician Global Assessment Colonoscopy Score (PGA-CS)
- Program on Equity in Child Health at Mott Hospital
- QMETRIC Implementation & Quality Improvement
- Quantification of Mucosal Activity from Colonoscopy Reports via the Simplified Endoscopic Mucosal Assessment for Crohn's Disease (SEMA-CD)
- Real-world Evidence for the Effectiveness and Safety of Ustekinumab Treatment in Children with Crohn's Disease: A Retrospective Cohort Study using the ImproveCareNow Registry Data (REALITI Study)
- Screening for Prediabetes and Diabetes in a Longitudinal Study of Children and Adolescents
- The Safety and Effectiveness of anti-TNF therapy in Internally Penetrating Crohn's Disease
- U.S. Dental Opioid Prescribing: Epidemiology and Policy Interventions

V. 2024 PEER-REVIEWED PUBLICATIONS

1. Adler J, Galanko JA, Ammoury R, Benkov KJ, Bousvaros A, Boyle B, Cabrera JM, Chun KY, Dorsey J, Ebach DR, Firestine AM, Gulati AS, Herfarth HH, Jester TW, Kaplan JL, Leibowitz I, Linville TM, Margolis PA, Minar P, Molle-Rios Z, Moses J, Olano K, Pashankar DS, Pitch L, Saeed SA, Samson CM, Sandberg K, Steiner SJ, Strople JA, Sullivan JS, Wali PD, Kappelman MD. HLA DQA1*05 and risk of anti-TNF treatment failure and anti-drug antibody development in children with Crohn's Disease: HLA DQA1*05 and Pediatric Crohn's Disease. *Am J Gastroenterol.* 2024 Oct 18. doi: 10.14309/ajg.0000000000003135. Epub ahead of print. PMID: 39423015.
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VI. FISCAL YEAR 2024 GRANT FUNDING

- N032636, Safety & Effectiveness of Anti-TNF therapy in Internally Penetrating Crohn's Disease

Crohn's and Colitis Foundation TO CHOP

Adler, Jeremy

1/1/2022-6/30/2024, \$2,600

- N031068, ImproveCareNow-Janssen Ustekinumab Real World Evidence (URWE) Study
Janssen Research and Development, LLC TO Improve Care Now, Inc.
Adler, Jeremy
7/29/2021-7/31/2024, \$59,999
- N030491, Simplified Endoscopic Mucosal Assessment of Crohn's Disease - Consulting Agreement
Janssen Research and Development, LLC
Adler, Jeremy
12/1/2023-11/30/2024, \$15,150
- F069511, Standardization of Evaluation to Treatment of pediatric perianal Crohn's disease and improving Outcomes through Networking (SETON)
AHRQ 5 R01 HS 029313 02
Adler, Jeremy / Gadepalli, Samir
5/1/2024-4/30/2025, \$393,216
- F056984, ASCEND (ARDS in Children and ECMO initiation strategies impact on Neuro-Development)
NIH 5 R01 HL 153519 04
Barbaro, Ryan
7/1/2023-6/30/2024, \$606,867
- F066163, Insurance-related barriers to medications for opioid use disorder in private and Medicaid plans
NIH 5 R01 DA 056438 02
Chua, Kao-Ping / Nguyen, Thuy
8/1/2023-7/31/2024, \$666,015
- F071060, Pediatric and Managed Care
CDC-Subcontracts TO MDHHS
Clark, Sarah
10/1/2023-9/30/2024, \$8,467
- F071083, Evaluation of the Michigan Pediatric Epilepsy Project
HRSA - subcontracts TO MDHHS
Clark, Sarah
10/1/2023-9/30/2024, \$9,757
- F071060, Pediatric and Managed Care
CDC-Subcontracts TO MDHHS

- Clark, Sarah
10/1/2023-9/30/2024, \$18,020
- N035012, Oral Health Patterns among Medicaid Enrollees
MDHHS
Clark, Sarah
10/1/2023-9/30/2024, \$16,524
- F071182, CSHCS Comprehensive Assessment
Health and Human Services, Department of-Centers for Medicare and Medicaid Services-Subcontracts TO MDHHS
Clark, Sarah
10/1/2023-9/30/2024, \$26,388
- N034041, Automating Medicaid for Incarcerated Beneficiaries Evaluation
Michigan Health Endowment Fund TO MDHHS
Clark, Sarah
3/20/2024-9/30/2024, \$30,000
- F071083, Evaluation of the Michigan Pediatric Epilepsy Project
HRSA - subcontracts TO MDHHS
Clark, Sarah
10/1/2023-9/30/2024, \$38,700
- F072274, Babies Win. Families Thrive. Communities Transformed!
NIH - Subcontracts TO Henry Ford Health System
Clark, Sarah
9/30/2023-9/29/2024, \$99,999
- N035470, Implementing doula care programs in Medicaid to advance racial equity in severe maternal morbidity
PCORI TO Health Care Financing and Organization (HCFO)
AcademyHealth
Clark, Sarah
8/1/2023-7/31/2024, \$112,699
- F066767, Improving racial equity in opioid use disorder treatment in Medicaid
NIH - Subcontracts TO University of Pittsburgh R01 DA 055585
Clark, Sarah
9/1/2023-8/31/2024, \$126,475
- F071642, Enhancing Digital CBT-I to Improve Adherence and Reduce Disparities
NIH - Subcontracts TO Henry Ford Health System R01 HL 159180
Clark, Sarah
- 9/1/2023-8/31/2024, \$135,004
- F072202, Improving quality and equity of opioid use disorder treatment using a multi-state Medicaid research network
NIH - Subcontracts TO University of Pittsburgh RM1 DA 059365
Clark, Sarah
9/30/2023-8/31/2024, \$150,779
- F071075, HL7 Data Quality Evaluation and Enhancing Electronic Data Exchange
CDC-Subcontracts TO MDHHS
Dombkowski, Kevin
10/1/2023-9/30/2024, \$100,000
- F071082, Blood Lead Data Quality Improvement Analysis
Health and Human Services, Department of-Centers for Medicare and Medicaid Services-Subcontracts TO MDHHS
Dombkowski, Kevin
10/1/2023-9/30/2024, \$121,500
- F066131, Flint Registry
CDC-Subcontracts TO Michigan State University
Dombkowski, Kevin
8/1/2023-7/31/2024, \$135,184
- F071131, Pediatric Sickle Cell Disease Improvement Program
Health and Human Services, Department of-Centers for Medicare and Medicaid Services-Subcontracts TO MDHHS
Freed, Gary
10/1/2023-9/30/2024, \$36,000
- N035581, Program on Equity In Child Health
Children's Hospital Foundation
Freed, Gary
1/1/2024-12/31/2024, \$51,059
- F071131, Pediatric Sickle Cell Disease Improvement Program
Health and Human Services, Department of-Centers for Medicare and Medicaid Services-Subcontracts TO MDHHS
Freed, Gary
10/1/2023-9/30/2024, \$93,626
- F067498, Incorporation of multilevel ontologies of adverse events and vaccines for vaccine safety surveillance
NIH - Subcontracts TO William Beaumont Hospital R01 AI 158543
Freed, Gary
1/1/2024-12/31/2024, \$155,335

- N035256, Creation of a Pediatric Health Equity Quality Collaborative in Michigan
Michigan Health Endowment Fund
Freed, Gary
4/15/2024-4/14/2025, \$251,749
- F071122, MIP - Michigan Child Health Equity Collaborative (MiCHEC)
Health and Human Services, Department of-Centers for Medicare and Medicaid Services-Subcontracts TO MDHHS
Freed, Gary
10/1/2023-9/30/2024, \$1,135,194
- N032705, T1D Exchange Quality Improvement Initiative-Phase 3
T1D Exchange, Inc.
Lee, Joyce
6/1/2023-5/31/2024, \$17,105
- F061257, FAMILY WELL-BEING RESEARCH NETWORK (FAM-NET): Measuring Family Well-Being across the Lifespan
NIH 5 U24 HD 107562 03
Prosser, Lisa
6/1/2023-5/31/2024, \$562,522
- F071531, Expedited Evidence-Based Reviews for Krabbe Disease
HRSA - subcontracts TO Research Institute at Nationwide Children's Hospital
Prosser, Lisa
9/8/2023-6/30/2024, \$89,962
- F066247, Respiratory syncytial virus (RSV) Modeling, Cost Assessments, and Health Utility Analyses
CDC
Prosser, Lisa
3/1/2024-2/28/2025, \$80,067
- F071195, ACHDNC Evidence Based Reviews for Nominated Condition 1 " Task Order 5
HRSA - subcontracts TO Nationwide Children's Hospital
Prosser, Lisa
8/21/2023-11/20/2024, \$153,050
- F066247, Respiratory syncytial virus (RSV) Modeling, Cost Assessments, and Health Utility Analyses
CDC
Prosser, Lisa
8/4/2023-8/3/2024, \$237,852
- F070625, Collaborative Surveys to Provide Inputs into Vaccine-Related Economic Evaluations
CDC 1 U01 IP 001198 01
Prosser, Lisa
9/1/2023-8/31/2024, \$399,999
- F071058, FY24-Project CB (SCCEP-UM): Sickle Cell Clinic Evaluation Project
MDHHS
Reeves, Sarah
10/1/2023-9/30/2024, \$20,000
- F072837, Opportunities to optimize the receipt of preventive services among children with sickle cell anemia: A Mixed Methods Approach
AHRQ 3 R01 HS 027785 03 S1
Reeves, Sarah
3/1/2024-8/31/2024, \$83,736
- F061853, Opportunities to optimize the receipt of preventive services among children with sickle cell anemia: A Mixed Methods Approach
AHRQ 5 R01 HS 027785 03
Reeves, Sarah
9/1/2023-8/31/2024, \$400,000
- F070776, Michigan Sickle Cell Data Collection Program
CDC U58 DD 000014
Reeves, Sarah
9/30/2023-9/29/2024, \$476,611

