

Research Projects for Med Students/Residents

January 2016

Contact: Robert Neumar (neumar@med.umich.edu)

Project: Mechanistic Strategies for Optimizing Post-Cardiac Arrest Targeted Temperature

Management: Objective is mechanistic optimization of intra- and post-cardiac arrest hypothermic targeted temperature management. Rodent model.

Project: Optimizing Extracorporeal Cardiopulmonary Resuscitation (ECPR) for Refractory Cardiac

Arrest: Objective is to develop strategies to optimize survival and recovery of neurologic function with extracorporeal cardiopulmonary resuscitation (ECPR) after prolonged cardiac arrest. Swine model

Project: SaveMiHeart: Objective is to double survival from out-of-hospital cardiac arrest by 2020 in the state of Michigan. Statewide quality improvement program for treatment of out-of-hospital cardiac arrest that uses CARES registry as data collection platform. Develop, implement, and measure quality improvement strategies for bystander response, 911 dispatch, EMS care, and hospital care.

Contact: Marie Lozon, MD (mlozon@med.umich.edu)

Project: Disaster Preparedness for ED and institution - how will we surge when the time comes?

Project: Enterprise stakeholder and resource analysis to address the need for surge space and planning (staffing) during a disaster or pandemic. This is an administrative and policy project.

Project: Hospital at Home...leveraging e health and community partnerships to care for hypoxic bronchiolitis patients at home-program sending selected hypoxic bronchiolitics home with oxygen. There are several branches of the study. Patient selection, education, assessment, outreach and user acceptance for subjects and providers, cost analysis, etc.

Contact: Robert Huang, MD (robhw@med.umich.edu)

Project: The US group has a variety of projects (both ongoing and potentially new). If you have students interested in ultrasound feel free to send them our way, we're happy to accommodate.

Contact: Andrew Hashikawa, MD (drewhash@med.umich.edu)

Project: ED concussion discharge instructions for teenage athletes (comic book style) based on work that some of my former colleagues have done in Milwaukee using comic style instructions for pain after fractures. Currently really none of the teenagers with concussions being observed in ED read any of the material we give them.

Contact: Vijay Singh, MD- (vijaysin@med.umich.edu)

Project: Intimate partner violence perpetration among males in family practice clinics

Contact: Rebecca Cunningham, MD (stroh@umich.edu)

Project: EM Projects related to youth violence and gun violence and alcohol and drug misuse.

Contact: Keith Kocher, MD (kkocher@med.umich.edu)

Project: Health services research projects related to Consequences of Variation in Emergency Department Hospitalization Practices Across the United States

Contact: Ronny Otero, MD (oteror@med.umich.edu)

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Project: Evaluating patient outcomes in patients who have had a pre-hospital lactate measurement
Evaluating triage nurse impressions of EKGs

Contact: Alex Rogers, MD (alexroge@med.umich.edu)

Project: Study of children with intestinal malabsorption and central lines who present to the Peds ED

Contact: Mahshid Abir, MD, MSc (mahshida@med.umich.edu)

Project: Investigating Patient-Centered Interventions to Reduce Asthma-Related Pediatric Hospitalizations

Project: Impact of High Inpatient Occupancy on Outcomes for Elderly Medicare patients

Project: Impact of ED Crowding on Patient Disposition Patterns

Project: A Mixed Methods Study to Inform Quality Measures for Medical Control Authority Structure and Performance

Project: Evaluating Ambulatory Care Sensitive Condition Emergency Department Visits and Hospitalizations at the University of Michigan Health System

Contact: Will Meurer, MD (wmeurer@med.umich.edu)

Project: Dizziness in the emergency department: We did a randomized trial of an educational intervention to change provider behavior given hypothetical dizziness scenarios; Stage: data collected and not fully analyzed

Project: Diagnostic testing in the emergency department: We presented randomized scenarios regarding diagnostic testing to ED patients regarding cost, benefit and risk; Stage: data collected, analyzed, needs interpretation.

Project: Diagnostic testing using amazon m-Turk: We presented randomized scenarios regarding diagnostic testing to the general public recruited by amazon mechanical turk regarding cost, benefit and risk; Stage: data collected, analyzed, needs interpretation and manuscript preparation.

Project: Prehospital status epilepticus treatment with benzodiazepines from a national database

Project: Neurologically focused questions from the National Ambulatory Medical Care Survey

Contact: John Burkhardt, MD (jburkhar@umich.edu)

Project: Bias in Resident Interview offers w/ Hopson

Project: Leaks in the Emergency Medicine Pipeline

Project: Advanced Medical Education Data Analytics

Project: Assessment Methods in Clinical Trial Training

Project: AUDIT Learner Dashboard w/ Hopson

Project: Scholarly Development in EM Residencies

Project: Surgical Resident Attrition