

Student Abstracts
Fall 2012 Research Training Symposium

Aggrey, Gerald. Mentor: Matthew Smith, MD. A retrospective analysis of injury patterns in youth fastpitch softball players

Aginam, Nnenna. Mentor: Richard Griffey, MD, MPH. The impact of teach back discharge instructions on patient satisfaction of emergency patients with limited health literacy: A randomized controlled trial

Akamnonu, Chukwuka Peter. Mentor: Steven Brandes, MD. The creation of a database to retrospectively evaluate outcomes of tandem-cuff urinary sphincter placement for stress urinary incontinence in men

An, Tonya. Mentor: Bruce Hall, MD, PhD, MBA. Summary and assessment of risk factors for gynecologic surgery

Anderson, Ryan. Mentor: Michael McWilliams, MD, PhD; William Peck, MD. Relationship between quality of care and racial disparities in accountable care organizations

Aronson, Adam. Mentor: Matthew Ellis, MB, FRCP, PhD. Characterizing drug dose response curves for Her2 tyrosine kinase mutations

Aufman, Elyse. Mentor: Catherine Lang, PT, PhD. Predictors of return to driving after stroke

Bakhsh, Wajeeh. Mentor: Matthew Dobbs, MD. Variables predictive of the need for extensive clubfoot surgery at a large tertiary institution

Barklund, Jennifer. Mentor: Gerald Andriole, MD. Determination of improved accuracy using the TargetScan system for prostate biopsy

Baumgartner, Kevin. Mentor: Traves Crabtree, MD. Pyloric outlet procedures in esophagectomy for esophageal cancer

Bayer, Chelsea. Mentor: Daniel Mamah, MD, MPE. Prevalence of psychotic and depressive symptoms in community sample of adolescents and young adults

Binagi, Nyabosamba Samba. Mentor: Philip Cryer, PhD. Combining liquid chromatography, mass spectrometry, and differential ion mobility separation for targeted metabolomics studies

Blackett, John William. Mentor: Jerry Jaboin, MD, PhD. Analysis of survival and prognostic factors in aggressive meningiomas after radiosurgery

Bokshan, Steven. Mentor: Jose Pineda, MD. The primary-secondary index: A novel index for quantifying primary and secondary ICP injury

Boone, Sean. Mentor: Joaquin Barnoya, MD, MPH. Impressions following a summer research experience in Guatemala

Bouchard, Brian. Mentor: Lee Ratner, MD, PhD. Searching for determinants in HTLV-1 infection

Brito Rivera, Natalia. Mentor: Gary Weil, MD. The role of IgG and IgG4 in the development of chronic pathology in filariasis patients from Tamil Nadu, South India

Brower-Lingsch, Adrienne. Mentor: Alexandre Carter, MD, PhD. Variability in individual response to continuous theta burst transcranial magnetic stimulation

Bruce, Carl. Mentor: Jose Pineda, MD. Phase-contrast MRI measurement of cerebral blood flow in children: Optimization and validation with arterial spin labeling

Chen, Yulong. Mentor: Michael Avidan, MD. Prevention of acute and persistent postoperative pain associated with surgical treatments clinical trial

Chi, Stephen. Mentor: David Beebe, PhD. Application of a double-fluorescent CreER reporter mouse to corneal epithelial lineage tracing

Chollet, Madeleine. Mentor: David Brody, PhD. Predicting PTSD in military personnel with mild traumatic brain injury

Chung, Christopher. Mentor: Amy Eyler, PhD. Lifestyle intervention & primary care integration: A feasibility study

Crittle, Kristen. Mentor: Jeff Peipert, MD, PhD. Diagnosis and treatment of pelvic inflammatory disease: A quality assessment study

Denny, George. Mentor: Arthur Loewy, PhD. Differential expression on ENaC subunits in Dahl salt-sensitive and Sprague Dawley rats

DeSanto, Cori. Mentor: Brad Racette, MD. Stability of parkinsonian and essential tremor diagnoses among the elderly in community settings

Dvoracek, Lucas. Mentor: Susan Mackinnon, MD. Tacrolimus induces acceleration of Wallerian degeneration in denervated peroneal nerves

Ebersole, Greg. Mentor: Susan Mackinnon, MD. Responsiveness of patients' DASH scores following ulnar nerve transposition for cubital tunnel syndrome

Esmaeeli-Koosej, Amir. Mentor: Charles Canter, MD. Impact of liver cirrhosis on heart transplant outcomes in Fontan patients

Facey, Gabrielle. Mentor: Jeremiah Depta, MD. Increased rates of myocardial infarction associated with borderline FFR values following deferred PCI

Fletcher, Amanda. Mentor: Lawrence Lewis, MD. Is health literacy and numeracy associated with medication and diet compliance in patients with hypertension?

Forbes, Lindsay Shelley. Mentor: Kathleen Wolin, ScD. Bone density in postmenopausal breast cancer survivors and its relationship with bone-related medication and exercise

Gamble, Paul. Mentor: Dennis Barbour, MD, PhD. Induced neural plasticity in the rat auditory cortex

George, Paul. Mentor: Gary Weil, MD. Quantifying the immune response of patients with elephantiasis in Southern India

Ghenbot, Rahel. Mentor: Albert Woo, MD. Cranial vault volume in unoperated sagittal synostosis – a case study and comparison

Glawson, Keylon. Mentor: Varun Puri, MD. A study to establish incidence, risk factors, and consequences of postoperative pneumonia after major thoracic surgery

Graham, Cassie. Mentor: Robert Heuckeroth, MD, PhD. The effect of hyperthermia on the migration of mouse enteric neural crest cells

He, Yizheng. Mentor: Eric Leuthardt, MD. Concordance of ECOG mapping and rs-fMRI mapping in simple motor tasks

Higgins, Stephanie. Mentor: Celia Santi, MD, PhD. Sperm motility patterns: Lack of hyperactivation in sperm from SLO3 knockout mice may result from deficient Ca²⁺ entry

Ikpeama, Uzoh. Mentor: Bettina Drake, PhD, MPH. Evaluation of follow-up activities after prostate cancer screening efforts in the community

Jagadeesan, Nhila. Mentor: Michael Avidan, MD. EEG through the ages

Ji, Joyce. Mentor: David Gutmann, MD, PhD. Optic nerve tortuosity in individuals with neurofibromatosis Type 1

Jiang, Allan. Mentor: Tim Graubert, MD. A next-generation sequencing panel for familial myelodysplastic syndromes and acute myeloid leukemia

Jiang, Naomi. Mentor: Perry Grigsby, MD, MS. Sequential measurement of tumor volume during radiotherapy for outcome prediction in squamous cell carcinoma of the cervix

Johnson, Ciara. Mentor: Varun Puri, MD. Vascular complications in lung transplantation – Are they avoidable? An institutional review

Jones, Solita. Mentor: Richard Griffey, MD, MPH. The impact of teach back on comprehension of discharge instructions among emergency patients with limited health literacy: A randomized, controlled trial

Kapalka, Kristen. Mentor: Daniel Theodoro, MD. Checklist adherence during central venous catheter insertion in the Emergency Department

Kim, Judith. Mentor: Mark Manary, MD. The impact of zinc and albendazole therapy in the treatment of environmental enteropathy

Knight, Brent. Mentor: Robert Figenshau, MD. Changing trends in the utilization of nephron-sparing surgery at Washington University

Kroque, Justin. Mentor: Ryan Calfee, MD. Predictors of failure of surgical treatment of the ulnar nerve for cubital tunnel syndrome

Lederhandler, Sarah. Mentor: Joaquin Barnoya, MD, MPH. Primary caregivers' educational level and childhood obesity in Guatemala

Lee, Audrey. Mentor: Robert Hayashi, MD. Performance status of extremity tumors

Leu, Ann. Mentor: Susan Mackinnon, MD; Philip Johnson, PhD. The effect of FK-506 on Wallerian degeneration following peripheral nerve transection

Li, Han. Mentor: Susan Culican, MD, PhD. Developing a screening test to identify psychophysical correlates of macular dysfunction

Lin, Amber. Mentor: Deanna Barch, PhD. Jitter orientation visual integration paradigm development for use in multi-site clinical trials

Liu, James. Mentor: Mark Manary, MD. Detection of low concentration host mRNA sensitive and specific for environmental enteropathy

Lucisano, Amelia. Mentor: Timothy Hullar, MD. Balance improvement through haptic feedback in unbalanced individuals

Ma, Jimmy. Mentor: Mario Castro, MD, MPH. Effect of indoor allergen exposure on allergic sensitization and timing of asthma diagnosis after severe respiratory syncytial virus bronchiolitis

Macaruso, Natalie. Mentor: Jason Weber, PhD. Role of nucleolin in gliomagenesis

Mah, Annelise. Mentor: Michael Diamond, MD, PhD. Cloning of interferon-stimulated gene IFIT1 into the TC-83 Venezuelan equine encephalitis virus

Marks, Lauren. Mentor: Kevin Black, MD. Quantitative pharmacodynamics of dopamine receptors from MRI

Martin, Lauren. Mentor: William Chapman, MD, FACS. A novel antagonist of CD47 in reducing hepatic ischemia-reperfusion injury

Meyer, Zachary. Mentor: Matthew Dobbs, MD. Intramedullary nailing vs. spica casting in children with femoral shaft fractures ages 2-6

Molina, Sergio. Mentor: Randall Bateman, MD. ApoE isoform quantitation in AD and controls

Onyewuchi, Chiemezie Perry. Mentor: Susan Culican, MD, PhD. A proteomics-based search for endogenous neuroprotective proteins in retinal ganglion cells

Osunsanmi, Babjide Michael. Mentor: Varun Puri, MD. Compare/Contract adult and pediatric lung transplants in patients with cystic fibrosis: Streamlining treatment and trending outcomes over time

Ousley, Jennifer. Mentor: Brent Matthews, MD. Robotic versus laparoscopic procedures: Dry lab tasks delineate sEMG differences in four bilateral muscle groups

Patel, Tirth. Mentor: David Holtzman, MD. Investigation of pathologic role of microtubule associated protein tau in Alzheimer's disease

Patel, Bhuvic. Mentor: Greg Zipfel, MD. Peri-procedural complications from endovascular treatment of unruptured cerebral aneurysms: Is routine ICU observation necessary?

Perry, Andrew. Mentor: Luigi Maccotta, MD, PhD; Ed Hogan, MD. Precision and reproducibility of hippocampal segmentations by FreeSurfer software and High Dimensional Mapping-Large Deformation (HDM-LD)-based segmentation

Plotzker, Alan. Mentor: Timothy Miller, MD, PhD. Using antisense oligonucleotides to decrease tau pathology in P301S mice

Raup, Valary. Mentor: Scott Luhmann, MD. IKDC scores for knee problems in pediatric and adolescent patients

Rebehn, Kelsey. Mentor: Robert Heuckeroth, MD, PhD. MicroRNA may mediate the effects of retinoic acid on the maturation of enteric nervous system precursors

Rengarajan, Arvind. Mentor: Michael Mullins, MD, FACEP, FAACT. How often do False-Positive Phencyclidine (PCP) urine screens occur with common medications?

Shin, Nicole. Mentor: Richard Griffey, MD, MPH. Evaluation of a teach-back intervention with discharge instructions among emergency patients with limited health literacy

Silver, Shawgi. Mentor: David Limbrick, MD, PhD. CSF Levels of L1CAM, NCAM1 and APP are elevated in preterm infants with post-hemorrhagic hydrocephalus

Tien, Vivian. Mentor: Thomas Bailey, MD. Exploring the tolerability of fluoroquinolones as latent TB treatment in liver transplant candidates

Travieso, Jennifer. Mentor: Emily Jungheim, MD, MSCI; Valerie Ratts, MD. Optimizing reproductive outcomes in obese women

Um, Grace. Mentor: David Mathes, MD, FACS; Scott Luhmann, MD. Upregulation of Th1-type chemokine expression in vascularized composite allograft rejection

Velloze, Stephanie. Mentor: Diane Merritt, MD. The impact of maternal-daughter involvement and discussions on sexual decision making

Vyhmeister, Ross. Mentor: Ari Cedars, MD. Reasons for incident hospitalization in adult patients with repaired tetralogy of fallot

Walz, Katie. Mentor: Gregory Wu, MD, PhD. Role of apolipoprotein E in a murine model of multiple sclerosis

Wang, Stephanie. Mentor: John DiPersio, MD, PhD. Retrospective analysis on hematopoietic stem cell (HSC) mobilization failures

Wang, Annie. Mentor: Denise Wilfley, PhD. Communication about weight between medical professionals and patients: Relation to eating disorder risk

Wesevich, Austin. Mentor: David Clifford, MD. Evaluation of community water source intervention

Wessel, Lauren. Mentor: David Gutmann, MD, PhD. The association between hypotonia and brain tumors in children with Neurofibromatosis type 1

Wichterman, Christian. Mentor: Anjali Bhorade, MD. Glaucoma severity as a predictor for driving difficulty

Wilson, Michael. Mentor: Jay Piccirillo, MD. Ecological momentary assessment of tinnitus using smartphone technology

Witt, Jacob. Mentor: Kristen Kroll, PhD. Chronic geminin depletion triggers re-replication and aneuploidy in Daoy cells and compromises cell growth in vitro

Wolfson, Maxim. Mentor: Michael Avidan, MD. The prevention of delirium and complications associated with surgical treatments (PODCAST) clinical trial

Wong, Angelica. Mentor: Graham Colditz, MD, DrPH. Baseline characteristic predictors of sustained weight loss in interventions for medically vulnerable populations: Be Fit, Be Well

Xiao, Qi. Mentor: Michael Gross, PhD. Structural studies of tyrosine kinases by fast photochemical oxidation of protein (FPOP) protein footprinting methodology

Xu, Wen Zhu (Annie). Mentor: Alex Evers, MD. Proteomic profiling of neurosteroids-target protein

Yang, Lu. Mentor: David Ornitz, MD, PhD. Role of FGF20 in hair cell regeneration in the zebrafish lateral line

Yozamp, Nicholas. Mentor: Steven Brody, MD. Role of c-Myb in directing airway epithelial cell fate

Yuen, Sonia. Mentor: Kelly Botteron, MD. Neurodevelopmental differences in the cingulate cortexes of children with PO-MDD

Zantow, Emily (Whitaker). Mentor: Michael Brunt, MD. Program development of surgical skills milestones for senior medical students matching in a surgical internship

Zheng, Lida. Mentor: Anjali Bhorade, MD. Differences in intraocular pressure measured in the clinic and home in glaucoma patients

Zieske, Lawrence. Mentor: Susan Mackinnon, MD. Web-based nerve surgery education intervention

Zozula, Alexander. Mentor: Susan Stark, PhD, OTR/L. Can prehospital emergency services reduce falls or fall-related morbidity in community-dwelling geriatric adults? A systematic review