University of Nebraska Medical Center

Department of Emergency Medicine

Faculty Activity Report

2013-14

Grants
New

$300,037 Co-Investigator- Yulong Li, National Institutes of Health, "Molecular and Cellular Determinants of the Exercise Pressor Reflex in CHF." 08/01/2013 – 07/31/2018


On-going
$ 1,331,650 Principle Investigator- Yu-Long Li, National Institutes of Health, “Dysfunction of Baroreceptor Neurons in Heart Failure: Cellular and Molecular Mechanisms Aortic baroreceptor neurons in nodose ganglia play an important role on arterial baroreflex impairment, a complication of chronic heart failure (CHF).” 07/2010-06/2014

$ 508,389 Principle Investigator- Wesley Zeger, Subcontract from University of Massachusetts, National Institutes of Health, “Emergency Department Suicide Screening and Intervention Trial (EDSSIT)” 09/2009-05/2014

$ 33,515 Principal Investigator- Michael Wadman, Co-Investigators- Wesley Zeger, Robert Muelleman and Thanh Nguyen Vietnam Education Foundation, “Introduction to Clinical Emergency Medicine at Thai Binh Medical University.” -US Faculty Scholars Program. 01/01/2013-1/18/2014

$238,625 Co-Investigator-Michael Wadman, DHHS/HRSA, “Advancing Rural Emergency and Acute care (AREA) Program for Family Nurse Practitioners (FNPs), 07/01/2013 - 06/30/2016

Pending Grants


$ 250,000 Co-Investigator- Robert Muelleman, DHHS, “Policy, systems and environmental changes to reduce inequalities in motor vehicle crash outcomes.” 07/01/2014-06/30/2019.

$ 117,471 Principle Investigator- Wesley Zeger, Subcontract from University of Massachusetts, National Institutes of Health, "Emergency Department Suicide Screening and Intervention Trial 2” 09/2009-05/2014

$ 65,000 Principal Investigator- Yulong Li, American Heart Association, “Role of ventricular vagal dysfunction in ventricular arrhythmogenesis in heart failure. 07/01/2014-06/30/2016.

$ 47,214 Principal Investigator- Wesley Zeger, Co-Investigators- Michael Wadman, Robert Muelleman and Thanh Nguyen Vietnam Education Foundation, "Introduction to Clinical Emergency Medicine at Thai Binh Medical University.” -US Faculty Scholars Program.

Publications
Journal Articles (Published)


Campbell WS, Campbell JR, West WW, McClay JC, Hinrichs SH. “Semantic analysis of SNOMED CT for a post-coordinated database of histopathology findings.” J Am Med Inform Assoc 2014; May 15, Epub PMID: 24833774

Cooper JS; Allinson P; Keim L; Sisson J; Schuller D; Sippel J; Kovaleski DH. Fasn. Hyperbaric oxygen: A useful adjunct for purpura fulminans Case report and review of the literature. Undersea and Hyperbaric Medicine. 41: 51-57. 2014. PMID: 24649717


Tu H; Liu J; Zhang D; Zheng H; Patel KP; Cornish KG; Wang WZ; Muelleman RL; Li YL, Heart failure-induced changes of voltage-gated Ca++ channels and cell excitability in rat cardiac postganglionic neurons. American Journal Of Physiology. Cell Physiology [Am J Physiol Cell Physiol], ISSN: 1522-1563, 2013 Sep 11; PMID: 24025863


Zhang D; Liu J; Tu H; Muelleman RL; Cornish KG; Li YL. In Vivo Transfection of Manganese Superoxide Dismutase Gene or Nuclear Factor κB shRNA in Nodose Ganglia Improves Aortic Baroreceptor Function in Heart Failure Rats. Hypertension [Hypertension], ISSN: 1524-4563, 2013 Oct 7; PMID: 24101667;


Book Chapters


Published Abstracts


Kirschner RI; Lander L; Smith LM; Jacobitz KL. Enhanced toxicity or protective effect? A comparison of acetaminophen/ aspirin/caffeine overdose with single component ingestions. NACCT Annual Conference; Atlanta, GA. Clin Toxicol. 2013 Vol. 51: 684(240)

Kirschner RI; Gerona R; Jacobitz KL. Nicotine content of liquid for electronic cigarettes. NACCT Annual Meeting; Atlanta, GA. Clin Toxicol. 2013 Vol. 51: 684(240)


Invited Presentations

National
Barksdale, A:
• “Clinical Pathologic Case Conference”. SAEM, Atlanta, Ga, May 15, 2013

Branecki, C:

Cooper J:

Kirschner RI:
• “Nicotine content of liquid for electronic cigarettes.” NACCT, Atlanta, GA. September 2013

Regional
Kirschner, R:
• Substance Abuse in Adolescents, National Association of Pediatric Nurse Practitioners (Midwest), Children’s Hospital, Omaha, NE. Feb. 2014.
• Toxicology Review for regional EMS, Creighton University Medical Center, March 2014.

Miyake, C:
• “Impact of Early ICU Admission on Severe Sepsis & Septic Shock,” SAEM Mid-West Regional Meeting, Springfield, IL. September 2013.

Muelleman, R:
• RVP, Earl K Long Medical Center/Louisiana State University, Baton Rouge, LA December 4-5, 2013
• RVP, UCLA, Los Angeles, CA. March 3-4, 2014
• RVP, Mercy St. Vincent, Toledo, OH. March 31-April 1, 2014

Local
Barthold, C:
• Envenomations, UNMC 2nd year Medical Students, Omaha, NE 2014.

Cooper, J:
• Hyperbaric Oxygen -Pediatric Indications Grand Rounds. Children's Hospital; Omaha, NE. 2013.
• Hyperbaric Oxygen for Dentist, Lincoln Dental Society, Lincoln, NE 2013.
• Hyperbaric Oxygen for Dentist, Dental Symposium, Creighton University, Omaha, NE 2013.
• Hyperbaric Oxygen, UNMC ENT Grand Rounds, Omaha, NE 2013
• Hyperbaric Oxygen for Critical Care, NE AACN, Omaha, NE 2013
• HBO for Necrotizing Infections, NE AORN, Omaha, NE 2013
• Hyperbaric Oxygen, NE Emergency Nurses Association, Omaha, NE 2013
• Hyperbaric Oxygen, Good Samaritan Hospital, Kearney, NE 2013
• Hyperbaric Oxygen, Memorial Hospital Medical Staff Lecture, Aurora, NE 2014
• Hyperbaric Oxygen , UNMC CT Surgery Grand Rounds, Omaha, NE 2014
• Tactical EMS, Sioux City EMS Conference, Sioux City, IA 2014
• Hyperbaric Oxygen for EMS, Sioux City EMS Conference, Sioux City, IA 2014
• Evaluation of Chest Pain, Medical Student Lecture, UNMC, Omaha, NE
• Hyperbaric Oxygen, St. Francis Hospital, Grand Island, NE 2014
Kirschner RI:

- Drug of Abuse Update. Medical staff lectures; Douglas County Correctional Facility, Omaha, NE. May 2013.
- Substance Abuse in School-Aged Children. Nebraska School Nurses Conference; Kearney, NE. June 2013.
- Critical Care Toxicology. CCM Fellows; Creighton Medical Center, Omaha, NE. Oct. 2013
- Toxicology of Agricultural Pesticides. Agricultural Medicine Conference; University of Nebraska Medical Center- College of Public Health, Omaha, NE. July 2013.
- Substance Abuse in Adolescents. National Association of Pediatric Nurse Practitioners (Midwest); Children's Hospital and Medical Center, Omaha, NE. Feb 2014
- Toxicology Review for regional EMS. Creighton Medical Center, Omaha, NE. March 2014
- Critical Poisonings in Children, UNMC Pediatric Residents, Omaha, NE 2013
- Envenomations, UNMC 2nd year Medical Students, Omaha, NE 2014.
- Critical Care Toxicology, CCM Fellows, UNMC, Omaha, NE 2014
- Clinical Toxicology Lecture Series, UNMC College of Pharmacy, UNMC, Omaha, NE 2014
- Evaluation and Management of the Poisoned Patient, UNMC College of Public Health, Omaha, NE 2014
- Non-prescription analgesic overdose, St. Elizabeth Medical Center, Lincoln, NE 2014
- Substance Abuse in Adolescents, Bryan Medical Center, Lincoln, NE 2014
- Toxicology Lunch with an expert, Children’s Hospital, Omaha, NE 2014.

Li, Y:

- Baroreceptor dysfunction and heart failure. College of Dentistry, University of Nebraska Medical Center, March 2014

Grand Rounds

- Wadman MC: Advising and Mentoring Residents and Junior Faculty, 8/28/2013
- Branecki C: Giving Feedback in Medical Education, 9/18/2013
- Branecki C: Management of Gynecological Emergencies, 12/18/2013
- Spiegel T: Discuss the Lifespan of a Global Health Mission, 1/15/2014
- Barksdale A: Anaphylaxis, where are we now? 3/19/14
- Cutright A: Acute Decompensated Heart Failure. 5/21/2014
## Core Resident Lectures

### Barksdale, Aaron
- **EKG Review** 7/17/13
- **Journal Club Review** 8/21/13
- **Journal Club** 9/25/13
- **Food Poisoning** 10/23/13
- **Journal Club** 10/23/13
- **Journal Club** 11/20/13
- **Journal Club** 12/18/13
- **Tick Borne Diseases** 1/8/14
- **Osteomyelitis and Septic Joints** 1/8/14
- **Grand Rounds** 3/19/14
- **Oral Board Prep** 4/9/14

### Barthold, Claudia
- **Charting** 8/28/13
- **Tox Conference Rev** 10/2/13
- **ETOH** 1/15/14
- **Journal Club** 1/22/14
- **In-Training Prep** 2/5/14
- **Diabetes and the ED** 3/12/14
- **Constipation** 3/19/14
- **Oral Board Prep** 4/9/14
- **Torsion** 5/21/14

### Bott, Kristi
- **Anorectal DO** 3/19/14
- **STDs** 5/7/14

### Branecki, Chad
- **Reading a CXR** 7/10/13
- **Transplant** 8/21/13
- **Grand Rounds** 9/18/13
- **In-Training Prep** 2/12/14
- **CPC** 3/12/14
- **Journal Club** 3/26/14
- **Oral Board Prep** 4/9/14
- **Male GU Issues** 4/9/14

### Cooper, Jeffrey
- **Hypothermia** 8/21/13
- **Tactical EMS** 6/18/14
- **Grand Rounds** 6/25/14

### Cutright, Amy
- **In-Training Prep** 2/5/14
- **Cardiac Pacing** 3/26/14
- **Grand Rounds** 5/21/14
- **Journal Club** 5/28/14

### Hernandez, Cynthia
- **HEGravd/Moles & Other Complications** 7/24/13
- **Flu and RSV** 9/25/13
- **Arrhythmia** 9/25/13
- **Sexual Assault and the ED; The Kit; Being A Witness** 1/22/14

### Kirschner, Ron
- **Plants and Shrooms** 10/16/13

### Larsen, Timothy
- **Kidney Stones** 4/2/14
- **Sz in Adults** 6/25/14

### Mahapatra, Jyoti
- **Minor Eye Issues** 8/14/13
- **In-service** 2/19/14
- **X-Ray Pelvis** 4/23/14
- **Lessons Learned** 4/23/14

### Meinke, Lisa
- **Normal Delivery** 8/14/13
- **Complications of Delivery** 8/14/13
- **UTI Pyelo** 6/4/14

### Miyake, Christine
- **Sepsis** 9/18/13
- **Sickle Cell** 3/26/14
- **Headache/Migraine** 5/14/14
- **EMTALA** 6/18/14

### Spiegel, Thomas
- **Grand Rounds** 1/15/14

### Wadman, Michael
- **Circadian Rhythms** 7/3/13
- **Sore Throat** 7/3/13
- **Grand Rounds** 8/28/13
- **Disturbances of Na** 5/14/14

### Walker, Richard
- **Major Eye Issues** 7/10/13
- **Bleeding in Pregnancy** 8/7/13
- **EKG Review** 8/7/13
- **Team STEPPS** 2/12/14
- **Journal Club** 4/30/14
- **Team STEPPS** 5/28/14

### Zeger, Wesley
- **Eclampsia** 7/24/13
- **Pelvic Ultrasound** 9/4/13
- **Depression/Suicide** 12/18/13
- **HIV** 2/12/14
- **SBO** 2/19/14
- **The Liver Patient** 5/28/14
- **The Gallbladder/Pancreas** 6/11/14