University of Nebraska Medical Center

Department of Emergency Medicine

Faculty Activity Report

2009-10
Grants

New
$1,967,573 Co-Investigator: Yu-Long Li, National Institutes of Health; NIH - PPG grant. Project II (PI, PK Patel): The role of excitatory input into the PVN on increased sympathetic drive in heart failure.

$500 Ben Cloyd, Medical Student/T. Paul Tran. Urocortin as an Early Biomarker for Cardiac Ischemia, Emergency Medicine Resident Association, American College of Emergency Physicians, Dallas, TX

On-going
$10,350 Principle Investigator, T. Paul Tran, Nebraska Bankers Association Equipment Grant, Awarded 06/09

$9982 Principle Investigator, Srikar Adhikari, Utility of bedside Ultrasound in the Prediction of Difficult Airway American Institute of Ultrasound in Medicine (AIUM) Endowment for Education & Research (EER) Grant. 03/2008-06/2010

$120,000 Principle Investigator, Srikar Adhikari, University of Nebraska College of Medicine Physician Scientist Training Award. 07/2008-06/2010, Awarded 2008 to 2010


Publications

Journal Articles (Published)


Tu H, Zhang L, Tran TP, Muelleman RL, Li YL. Reduced expression and activation of voltage-gated sodium channels contributes to blunted baroreflex sensitivity in heart failure rats. Am J Physiol Regul Integr Comp Physiol (revised).


Book Chapters


Published Abstracts


McClay JC, Nielson JA, Hersh W; “Analysis of the ACEP-AMIA 10x10 Program to Train Emergency Physicians in Medical Informatics”, AMIA 2009 Annual Symposium, San Francisco, CA.


Tu H, Zhang L, Tran TP, Muelleman RL, Li YL. Lowered activation of voltage-gated sodium channels contributes to blunted baroreflex sensitivity in heart failure rats. FASEB J 2010; 24: 1051.4


Yang RF, Yin JX, Li YL, Zimmerman MC, Schultz HD. Angiotensin-(1-7) increases neuronal potassium current via a nitric oxide-dependent mechanism. FASEB J 2010; 24: 809.19


Invited Presentations

International

Tran, T. Paul, MD

Wadman, Michael, MD

National

Adhikari, Srikar, MD
- Isolated superficial and deep femoral vein thrombosis: implications for 2-point compression ultrasonography. American Institute of Ultrasound in Medicine Annual Convention, San Diego, California, 03/2010
- Evaluation of the acutely decompensating patient-Review of published protocols and Symptomatic approach. American Institute of Ultrasound in Medicine Annual Convention, San Diego, California, 03/2010
- Utility of bedside biliary ultrasound in the evaluation of emergency department patients with isolated epigastric pain. American College of Emergency Physicians Research Forum, Boston, Massachusetts, 10/2009
- Epidemiology of Elevated Blood Pressure in Emergency Department. American College of Emergency Physicians Research Forum, Boston, Massachusetts, 10/2009

Tran, T. Paul, MD
- Ischemic injury in minimal compared to reperfusion injury in acute limb ischemia, Society of Academic Emergency Medicine Annual Meeting, Phoenix, AZ, 05/2010

Li, Yulong/T. Paul Tran/Robert L. Muelleman
- Lowered activation of voltage-gated sodium channels contributes to blunted baroreflex sensitivity in heart failure rats, Experimental Biology Annual Meeting, Los Angeles, LA, April 2010
- Elevated angiotensin II attenuates activation of voltage-gated sodium channels in heart failure rats: involvement of mitochondria-derived superoxide, Experimental Biology Annual Meeting, Los Angeles, LA, April 2010

Regional

Adhikari, Srikar, MD

Barthold, Claudia, MD
- Drug Overdoses with Children and Young Adults, TMA EMS Conference, Boys Town, NE. 2010
- Toxicology Review, Creighton Paramedic Course, Omaha NE, 04/2010.
**Branecki, Chad, MD**
- LifeNet Air Medical Chart/Case Review. 10/2009

**Hoffman, Lance, MD**
- ED Management of the Asthmatic Patient and Airway Adjuncts Skills Station Instructor. Emergency Medicine Skills for the Rural Practitioner, Omaha, NE. 03/2010

**Tran, T. Paul, MD**
- Reperfusion injury in acute ischemic syndrome, Western SAEM Regional Meeting, Santa Rosa, CA, March 2010
- Urocortin is cytoprotective in a murine model of acute limb ischemia, Western SAEM Regional Meeting, Santa Rosa, CA, March 2010

**Local**

**Barthold, Claudia, MD**
- Toxicology Review. UNMC Pediatric Residency Board Review Course, 06/2010.
- Clinical Toxicology: Calcium Channel Blockers, Iron, Antidepressants. UNMC Pharmacology Therapeutics Course, Omaha NE, 2010
- General Management of Poisonings. UNMC/UNL Graduate Level “TOX 888” course, Omaha NE, 2009

**Kirschner, Ronald, MD**
- Critical Poisonings in Adults. Critical Care Medicine Fellows, UNMC. 12/2009
- Introduction to Clinical Toxicology, Parts I and II. UNMC School of Pharmacy. 02/2010
- Poisoning as a Public Health Problem, UNMC Public Health. 03/2010

**Wadman, Michael, MD**
- The art of debriefing: bringing the ‘a-ha’ moment to simulation and small group teaching. Faculty Development Lecture Series, UNMC. 01/2010
- Using simulation as a tool to optimize education outcomes. UNMC Faculty Development Lecture Series. 01/2010

**Grand Rounds**

**Adhikari, Srikar, MD**

**Hoffman, Lance, MD**
- Sex, Drugs, and Rock & Roll: An Exploration of Multitasking. Grand Rounds presentation at Truman Medical Center, Kansas City, MO. 04/2010

**Kirschner, Ronald, MD**
- Critical Poisonings in Children. Pediatric Grand Rounds, Children’s Hospital. Omaha, NE. 03/2010
- Beyond the Nomogram: Acetaminophen overdose and optimal use of N-acetylcysteine. UNMC Department of Emergency. 08/2009

**Tran, T. Paul, MD**
- Pandemic Influenza- An Update. UNMC Department of Emergency Medicine Grand Rounds, 11/2009

**Wadman, Michael, MD**
- See One, Do One, TeachOne: New Approaches to Teaching and Learning Procedures in Emergency Medicine. 07/2009

**Walker, Richard, MD**

**Zeger, Wes, DO**
- ED Observation Units. UNMC Department of Emergency. 09/2009
### Resident Education

#### Resident Labs

**Simulation Labs**  
Claudia Barthold, Chad Branecki, Lance Hoffman  
Michael Wadman and Richard Walker  

**Cadaver Labs**  
Claudia Barthold, Chad Branecki, Lance Hoffman  
Michael Wadman and Richard Walker  

**Suture Labs**  
Claudia Barthold, Lance Hoffman and Michael Wadman  
7/30/2009

### Resident Reviews

**House Officer Manual Review**  
Claudia Barthold, Lance Hoffman and Michael Wadman  
7/30/2009

### Curriculum Review

Claudia Barthold, Lance Hoffman and Michael Wadman  
2/25/2010

### Resident Education Lectures

**Airway Extravaganza**  
Claudia Barthold, Lance Hoffman and Michael Wadman  
7/16/2009

**Abstract of Interest**  
Claudia Barthold, Lance Hoffman and Michael Wadman  
11/12/2009

### Resident Core Education Lectures:

#### Asher, Lori
- Intro to Peds 7/17/2009  
- Pediatric Belly Pain 9/03/2009

#### Adhikari, Srikar
- Ultrasound 2 day Course 7/27-28/2009  
- U/S 8/27/2009  
- Rads Case Conf 9/24/2009  
- U/S 10/22/2009  
- Ultrasound 4/22/2010

#### Barthold, Claudia
- Med Records Basics 7/03/2009  
- Intro to Tox 7/08/2009  
- Didactics Explained 7/08/2009  
- Alphabet Soup for the ED doc 7/31/2009  
- Ovarian Pathology 8/13/2009  
- Trauma and Pregnancy 9/03/2009  
- Antidotes 1/07/2010  
- Trauma In-Service Review 1/21/2010  
- Code Review 1/28/2010  
- Code Review 3/25/2010  
- Mushrooms 3/25/2010

#### Bott, Kristine
- SOB 7/29/2009  
- Tick Borne Disease 8/13/2009  
- ARF 5/13/2010

#### Branecki, Chad
- In-service Review 2/04/2010

#### Hernandez, Cynthia
- Sexual Assault Examination 7/10/2009

#### Hoffman, Lance
- Basic EM Skills 7/02/2009  
- Difficult Consultant 7/03/2009  
- AMS 7/03/2009  
- NVD 7/08/2009  
- Shock 7/08/2009  
- Electrolyte Disorders 7/09/2009  
- Tetanus/Rabies 7/09/2009  
- Vaginal Bleeding 7/22/2009  
- Image Review 9/10/2009  
- High Altitude Illness 2/11/2010  
- Urolithiasis/Rhabdo 5/13/2010

#### Jones, Phillip
- Electrical Injuries 2/04/2010

#### Lamberty, Larry
- Lamberty Rules 7/03/2009  
- OB Topics 1/28/2010

#### Larsen, Timothy
- Acute Appy 10/08/2009  
- Toxic Shock 10/08/2009  
- Child with a limp 10/08/2009
Mahapatra, Jyoti
- The Geriatric Patient 7/29/2009
- Case Presentation 1/28/2010
- In-service Review 2/04/2010

McClay, James
- NEAR 10/01/2009

Millward, Lee
- Chest Pain 7/08/2009
- Status Epilepticus 12/03/2009
- Testicular Pathology 4/08/2010

Muelleman, Robert
- Hyperthermia 2/11/2010

Spiegel, Thomas
- Abdominal Pain 7/17/2009

Tran, T. Paul
- JC and EBM Introduction 7/10/2009
- Research Design and Scholarly Project 7/22/2009
- Eye Problems 9/24/2009
- Flu 11/05/2009

Wadman, Michael
- Welcome-Student to Resident 7/01/2009
- Res-Dir Meeting 7/16/2009
- Syncope 7/24/2009
- Sore Throat 7/24/2009
- Fever 7/24/2009
- Wound Care 7/29/2009
- Chronic Neurological Disorders 11/12/2009
- Compartment Syndromes 4/08/2010

Walker, Richard
- Red Eye 7/10/2009
- Headache 7/10/2009
- First Trimester Bleeding 9/24/2009
- Malpractice 3/04/2010

Zeger, Wesley
- CDU Introduction 7/08/2009
- Bleeding Disorders 7/23/2009
- HELLP/Pre-Eclampsia 7/23/2009
- Congenital Heart Disease 9/10/2009
- GB/Panc/Liver 10/22/2009
- Vertigo 12/03/2009
- Bowel Obstruction 1/07/2010
- Hypothermia 2/11/2010
- Pedi-Trauma 4/01/2010