

EDUCATION AND MEDICAL TRAINING

Critical Care Medicine , University of Arizona, Tucson, AZ	Sept 2012 to Sept 2013
Anesthesiology Resident , University of Arizona, Tucson, AZ	June 2007 to June 2010
Internship , Evanston Northwestern Healthcare, Evanston, IL Transitional medicine	June 2006 to June 2007
M.D. , University of Illinois at Chicago, Chicago, IL	Aug 2002 to May 2006
M.S. , Northwestern University, Evanston, IL Biotechnology in conjunction with Kellogg School of Management	Sept 1998 to Sept 1999
B.S. , Illinois State University, Normal, IL Magna Cum Laude	Aug 1995 to Dec 1997

EMPLOYEMENT

University of Arizona , Assistant Professor, Tucson, AZ Director, Anesthesiology Residency Education (July 2011 – Present) Director, Scheduling Committee (September 2011 – Present) Assistant Residency Program Director (April 2012-Sept 2012) - Not during CCM fellowship Member, Compensation Committee (July 2012 – Present) Anesthesiology Resident Teacher of the Year 2012	July 2010 to present
BioStrategies Group , Consultant, Chicago, IL Formulated strategies to market new pharmaceuticals and medical devices Analyzed pharmaceutical markets to predict future trends	Sept 1999 to Aug 2002
Abbott Laboratories , Technician, Abbott Park, IL	Jan 1998 to July 1998
US Army , E4, Supply Specialist, Fort Wainwright, AK Jan 1994 Awarded the Army Achievement Medal and the Army Commendation Medal	Nov 1991 to

COMMITMENT TO EDUCATION

1. M5 Board Review
Contributed over 900 questions designed for anesthesiology board review
Each question is accompanied by a detailed explanation of both right and wrong answers
2. Matika & Mistery Oral Boards Book
Study source for Oral Board preparation, published for University of Arizona anesthesiology residents
3. Annual ABA In-Training Exam Review Lectures
15 lectures, each more than 4 hours in length preparing residents for the ABA in-training exam
All lectures performed on weekend at private residence without support for University
Personalized study sessions and study plans for residents performing poorly on ITE
4. Weekly Anesthesiology and Surgery Resident ICU Lectures
5. Assist in the Planning of Daily Anesthesiology Resident Didactic Lectures

RESEARCH

Publications

Vance G. Nielsen M.D., Farid Gharagozloo M.D., Ryan W. Matika M.D., Samuel Kim M.D., Eric A. Zelman M.D., Evangelina B. Steinbrenner CCRC. Lung Tumor Effects on Plasmatic Coagulation: Role of Hemeoxygenase-1. *Annals of Thoracic Surgery*. (Submitted)

Vance G. Nielsen, G. Michael Lemole Jr, Ryan W. Matika, Martin E. Weinand, Sana Hussaini, Ali A. Baaj, Evangelina B. Steinbrenner. Brain Tumors Enhance Plasmatic Coagulation: Role of Hemeoxygenase-1. *Anesthesia & Analgesia*. (Submitted)

Vance G. Nielsen, Valentine N. Nfonsam, Ryan W. Matika, Evan S. Ong, Tung Jie, James A. Warneke, Evangelina B. Steinbrenner. Colon and Pancreas Tumors Enhance Plasma Coagulation Kinetics: Role of Hemeoxygenase-1. *Journal of Gastrointestinal Surgery*. (Submitted)

Vance G. Nielsen, Michele L. B. Ley, Amy L. Waer, Patrick W. Alger, Ryan W. Matika, Evangelina B. SteinbrennePlasmatic Hypercoagulation in Patients with Breast Cancer: Role of Hemeoxygenase-1 Blood, Coagulation, & Fibrinolysis. (Accepted)

Vance G. Nielsen, Ryan W. Matika, Michele L. B. Ley, Amy L. Waer, Farid Gharagozloo, Samuel Kim, Valentine N. Nfonsam, Evan S. Ong, Tun Jie, James A. Warneke, Evangelina B. Steinbrenner. Tissue Type Plasminogen Activator Induced Fibrinolysis is Enhanced in Patients with Breast, Lung, Pancreas and Colon Cancer. *Blood, Coagulation, & Fibrinolysis*. (Submitted).

Zhang W, Patil S, Chauhan B, Guo S, Powell DR, Le J, Klotsas A, Matika R, Xiao X, Franks R, Heidenreich KA, Sajan MP, Farese RV, Stolz DB, Tso P, Koo SH, Montminy M, Unterman TG. FoxO1 regulates multiple metabolic pathways in the liver: effects on gluconeogenic, glycolytic, and lipogenic gene expression. *J Biol Chem*. 2006 Apr 14;281(15):10105-17.

Presentations/ Posters

American Society of Anesthesiology

2009 – Matika R, Hameroff S, & Gentz. Use of ECMO for treatment of TRALI. New Orleans, LA

Western Anesthesiology Resident Conference

2011 - Dillon H & Matika R. Retrieval of Unwound Spirals of guidewire: Case Report. Tucson, AZ

2011 – Saviolakis P & Matika R. Airway Complication after Unexpected Difficult Airway. Tucson, AZ

2010 - Matika R, Hameroff S, Gentz B. Case of Profound Non-Cardiogenic Pulmonary Edema with Profound Hypoxemia. Anaheim, CA

2009 – Matika R, Badal J, & Boyle P. Persistent Hemidiaphragmatic Paralysis Following Interscalene Brachial Plexus Block. Palm Springs, CA

2008 – Matika R & Gerard. Anesthetic Considerations for Carotid Artery Stenting with Flow Reversal. Seattle, WA

Endocrine Society Annual Meeting

2004 – Award Winning Presentation: FoxO transcription factors regulate multiple metabolic pathways in the liver

MS Thesis, Northwestern University

1999 - "Blood Screening for *Trypanosoma cruzi* in the United States."

MEDICAL LICENCE & CERTIFICATION

Arizona Medical Board.

American Board of Anesthesiology – Certified 2011, In Process for CCM

INTERESTS

Hiking, drawing, family activities (three children), music, racquetball