

Keith R. McCain, Pharm.D., CSPI

Curriculum Vitae

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UAMS College of Pharmacy
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Little Rock, AR 72205
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EDUCATION

1996-2000 *Doctor of Pharmacy*
University of Arkansas for Medical Sciences (UAMS)
College of Pharmacy
Little Rock, Arkansas

1993-1996 *Pre-Pharmacy studies*
Henderson State University
Arkadelphia, Arkansas

1992-1993 *General Undergraduate studies*
University of Central Arkansas
Conway, Arkansas

1989-1992 *Graduate*
Lake Hamilton High School
Percy, Arkansas

FACULTY APPOINTMENT

2003-present Assistant Professor
UAMS College of Pharmacy
Department of Pharmacy Practice
Little Rock, Arkansas
Paul O. Gubbins, Pharm.D., FCCP

PROFESSIONAL EXPERIENCE

- 2000-present *Poison Control Specialist*
Arkansas Poison Control Center
Little Rock, Arkansas
Howell Foster, Pharm.D., D.ABAT
- 2008-present *Clinical Pharmacist*
Baptist Health Home Infusion
Little Rock, Arkansas
Britt Wimberly, Pharm.D.
- 2001-2008 *Clinical Infusion Pharmacist*
American HomePatient
Little Rock, Arkansas
Gayle Luttrell, P.D.
- 2003 *Director of Pharmacy Services (interim)*
American HomePatient
Little Rock, Arkansas
Lesa Cate, R.N.
- 2000-2003 *Pharmacist (relief)*
Drug Emporium
Little Rock, Arkansas
Karen Christian, P.D.
- 1997-2000 *Poison Information Provider*
Arkansas Poison Control Center
Little Rock, Arkansas
Howell Foster, Pharm.D., D.ABAT

CLINICAL EXPERIENCE

Arkansas Poison Control Center

- Exposure/overdose management and referral service for the general public
- Clinical toxicology consults for physician and other healthcare professionals
- Toxicokinetic consults
- Emergent and non-emergent drug information service
- Provide UAMS Department of Emergency Medicine attending staff and residents with requested bedside overdose and exposure consultation and follow-up
- In-depth drug information and poisoning literature review

Home Infusion

- Total parenteral nutrition management
- Pain management consults
- Antibiotic therapeutic level management
- Home infusion therapy planning
- Extensive parenteral admixture

PRESENTATIONS and LECTURES

“Principles of Home Infusion and Parenteral Nutrition” Dispensing, UAMS College of Pharmacy, Little Rock, Arkansas November 2009

“Essentials of USP <797>: Pharmaceutical Compounding – Sterile Preparations, Dispensing, UAMS College of Pharmacy, Little Rock, Arkansas, November 2009

“The Poison Center & Clinical Toxicology Practice” Pharmacy Camp, UAMS College of Pharmacy, Little Rock, Arkansas, June 2009

“Be Still, My Beating Heart: Cardiac Glycosides and Antidysrhythmic toxicity” Toxicology, UAMS College of Pharmacy, Little Rock, Arkansas, March 2009

“NSAIDS and ASA” Toxicology, UAMS College of Pharmacy, Little Rock, Arkansas, March 2009

“Toxin induced Hypotension and Bradycardia” Toxicology, UAMS College of Pharmacy, Little Rock, Arkansas, February 2009

“What’s NAPQI?” Toxicology, UAMS College of Pharmacy, Little Rock, Arkansas, January 2009.

“Non-toxins and Small Dose Toxins” Arkansas Children’s Hospital Pediatric Emergency Medicine Fellows Toxicology Conference, Little Rock, Arkansas, March 2009

“The Arkansas Poison Control Center” Pharmacy Camp, UAMS College of Pharmacy, Little Rock, Arkansas, June 2008

“Alcohol and Energy Drinks” Arkansas Children’s Hospital/UAMS Pharmacology/Toxicology Journal Club, Little Rock Arkansas, May 2008

“Pharmacy and the UAMS College of Pharmacy” Pre-Med Club, Arkansas Tech University, Russellville, Arkansas, February 2008

“Insulin and Dextrose for Calcium Channel Blocker Toxicity” Toxicology, UAMS College of Pharmacy, Little Rock Arkansas, February 2008.

“What Every Pharmacist Should Know about OTC Analgesic Toxicity” Toxicology, UAMS College of Pharmacy, Little Rock Arkansas, January 2008.

“The Answers Not: Block Channels” Problem Based Learning, UAMS College of Pharmacy, Little Rock, November 2007.

“They Took What?” Problem Based Learning, UAMS College of Pharmacy, Little Rock, Arkansas, October 2007.

“Cardiac Glycosides” Toxicology, UAMS College of Pharmacy, Little Rock, Arkansas, March 2007.

PRESENTATIONS and LECTURES (cont.)

“Toxicity of Select Anti-hypertensives”, UAMS College of Pharmacy, Little Rock, Arkansas, February 2007.

“Acetaminophen, Salicylates, and NSAIDs” Toxicology, UAMS College of Pharmacy, Little Rock, Arkansas, January 2007.

“The Where, What, Why, and When of Poison Control” Nursing and Patient Care Staff, Hot Springs Rehabilitation Center, Hot Springs, Arkansas, December 2006.

“Suicidal Overdose: Developing Problem Lists, Assessments, and Patient Care Plans” Problem Based Learning, UAMS College of Pharmacy, Little Rock, Arkansas, November 2006.

“How to become a pharmacist; a trusted healthcare professional” Pre-Med Club, Arkansas Tech University, Russellville, Arkansas, October 2006

“Poison Prevention and Awareness” Wise Old and Wonderful group, Piney Grove United Methodist Church, Hot Springs, Arkansas, October 2006

“Evaluation and Management of the Poisoned Patient Following a Polydrug Overdose” Problem Based Learning, UAMS College of Pharmacy, Little Rock, Arkansas, November 2005.

“Similar but Different, Calcium Channel Blocker vs. Beta Blocker Overdose” Toxicology, UAMS College of Pharmacy, Little Rock, Arkansas, October 2005

“Calcium Channel Blockers, Overdoses that make you think Oh \$?!%!” Problem Based Learning, UAMS College of Pharmacy, Little Rock, Arkansas, October 2005

“Uncoupled Oxidative Phosphorylation” Toxicology, UAMS College of Pharmacy, Little Rock, Arkansas, September 2005

“Role of the Poison Specialist” Introduction to Pharmacy, UAMS College of Pharmacy, Little Rock, Arkansas, August 2005

“Analgesic Toxicity” Toxicology, UAMS College of Pharmacy, Little Rock, Arkansas, October 2004

“Pharmaceutical Care in the Emergency Department” UAMS Department of Emergency Medicine Resident Conference, Little Rock, Arkansas, June 2004

“Rodenticides: The Search for the Perfect Mouse Trap” Toxicology, UAMS College of Pharmacy, Little Rock, Arkansas, September 2003

“NAC: The Perfect Antidote?” Toxicology, UAMS College of Pharmacy, Little Rock, Arkansas, September 2003

PRESENTATIONS and LECTURES (cont.)

“Autodose, The Pump that’s not a Pump” Staff, American HomePatient, Little Rock, Arkansas, May 2003

“The Pharmacy Profession: Transitioning from Prescription Provider to Pharmaceutical Care” Lake Hamilton High School AP Chemistry/Biology students, Percy, Arkansas February 2003

“Salicylates and NSAIDS” Toxicology, UAMS College of Pharmacy, Little Rock, Arkansas, November 2002

“Acetaminophen” Toxicology, UAMS College of Pharmacy, Little Rock, Arkansas, November 2002

“Superwarfarin’s and other Rodenticides” Toxicology, UAMS College of Pharmacy, Little Rock, Arkansas, October 2002

“Xeloda” Staff, American HomePatient, Little Rock, Arkansas, December 2001

“Got Centrilobular Necrosis?” Toxicology, UAMS College of Pharmacy, Little Rock, Arkansas, November 2001

“The Poison Center and EMS” UAMS Emergency Medical Sciences students, Arkansas Poison Control Center, Little Rock, Arkansas, October 2001

“It’s a Bird, It’s a Plane, No It’s...Superwarfarin” Toxicology, UAMS College of Pharmacy, Little Rock, Arkansas, October 2001

“New Oral Agents of 1999” Area pharmacist continuing education program (ASBP approved), Stuttgart, Arkansas, October 1999

“Asthma Care Plans” Pharmacy Staff, Arkansas Children’s Hospital, Little Rock, Arkansas, August 1999

“Changes in University Hospital Trovafloxacin Usage” Medical and Nursing Staff In-service, University Hospital, Little Rock, Arkansas, June 1999

“Changes in University Hospital Trovafloxacin Usage” Inpatient Pharmacy Staff In-service, University Hospital, Little Rock, Arkansas, June 1999

“University Hospital Albumin Usage” Pharmacy Staff, University Hospital, Little Rock, Arkansas, June 1999

PUBLICATIONS

McCain KR, Sawyer TS, Spiller HA, Evaluation of centrally acting cholinesterase inhibitor exposures in adults. *Ann Pharmacother.* 2007 Oct; 41(10):1632-7.

Dunn EB, Wolfe JJ, **McCain KR**, *4 ml BID.* *Drug Topics.* February 25, 2004.
McCain KR
Curriculum Vitae

PUBLISHED ABSTRACTS

Franks AM, Schmidt JM, **McCain KR**, Fraer M. *Comparison of the effects of energy drink and caffeine supplementation on indices of 24-hour ambulatory blood pressure.* *Pharmacotherapy* 2009;29(10):190e [abstract 29]. 2009 American College of Clinical Pharmacy Annual Meeting. October 19, 2009. Anaheim, California. (podium)

McCain KR, Griffith JRK, Spiller HA. Evaluation of Terazosin Exposures as Reported to Three U.S. Poison Centers. [abstract]. *Clin Toxicol (Phila)* 2007; 45(6):625

McCain KR, Sawyer TS, Spiller HA. Evaluation of Adult Centrally Acting Cholinesterase Inhibitor Exposures as Reported to US Poison Centers. [abstract]. *Clin Toxicol (Phila)* 2006; 44:674.

Sawyer TS, **McCain KR**, Spiller HA. Adverse Events in Pediatric Exposures to the Cholinesterase Inhibitor Class of Drugs. [abstract]. *Clin Toxicol (Phila)* 2006; 44:671-2

BOOK CHAPTERS

McCain KR, Foster HR. *Clinical Toxicology*, NAPLEX Review Guide, McGraw Hill Co. Accepted 09/01/2009.

Foster HR, **McCain KR**. *All Hazard Preparedness*, NAPLEX Review Guide, McGraw Hill Co. Accepted 09/01/2009.

CONFERENCE PRESENTATIONS

North American Congress of Clinical Toxicology, New Orleans, Louisiana, 2007
Poster: Evaluation of Terazosin Exposures as Reported to Three U.S. Poison Centers.

North American Congress of Clinical Toxicology, San Francisco, California, 2006
Poster: Evaluation of Adult Centrally-Acting Cholinesterase Inhibitor Exposures as Reported to US Poison Centers.

North American Congress of Clinical Toxicology, San Francisco, California, 2006
Poster: Adverse Events in Pediatric Exposures to the Cholinesterase Inhibitor Class of Drugs.

MEDIA INTERVIEWS

Little Rock ABC television affiliate KATV, news story regarding the toxicity of antifreeze. Little Rock, Arkansas, March 13, 2009.

JOURNAL REFEREE

2008–present *The Annals of Pharmacotherapy*

2008–present *the journal of Pharmacy Technology*

RESEARCH

Franks AM, Schmidt J, McCain KM, Fraer M, “Effect of Energy Drink Consumption on Indices of 24-Hour Ambulatory Blood Pressure. Pending UAMS IRB review.

Spiller HA, Foster HF, Ryan M, McCain KR, “Evaluation of the Long-term Effects of Pit Viper Envenomation and the Impact of Antivenin” UAMS IRB protocol #109415

McCain KM, Griffith JR, Spiller HA, “Evaluation of Terazosin Ingestions as Reported to Three US Poison Centers” UAMS IRB protocol #79615.

Griffith JR, McCain KM, Spiller HA, “Retrospective Evaluation of Topiramate Overdose as Reported to Poison Centers” UAMS IRB protocol #79561.

McCain KM, Sawyer TS, Spiller HA, “Evaluation of Centrally Acting Cholinesterase Inhibitor Exposure Following Acute Overdose as Reported to US Poison Centers”. UAMS IRB protocol #54665.

Spiller HA, et al., “Poison Centers Evaluation of Adverse Events Following Reported Venlafaxine Overdose”. UAMS IRB protocol #54005.

LICENSURE

Registered Pharmacist, Arkansas License #PD09212

CERTIFICATION

Certified Specialist in Poison Information (CSPI), 2001; 2008

HONORS and AWARDS

HRSA funded American Board of Applied Toxicology training program, 2006-2007

HRSA funded American Board of Applied Toxicology training program, 2005-2006

American HomePatient Extreme Service Award, 2005

American HomePatient Most Valuable Employee of the Year, Little Rock branch 2003

American HomePatient Certificate of Excellence, 2003

The SmithKline Beecham Pharmaceuticals Award for Superior Achievement in Patient Care, UAMS College of Pharmacy, 2000

UAMS College of Pharmacy Dean’s List, 1997 - 2000

Vice President UAMS College of Pharmacy Class of 2000, 1997-2000

PROFESSIONAL AND SERVICE ACTIVITIES

2009 – present Member, Ad hoc Promotion and Tenure Guideline Committee, UAMS College of Pharmacy

2008 – present Member, Awards and Financial Aid Committee, UAMS College of Pharmacy

PROFESSIONAL AND SERVICE ACTIVITIES (cont.)

- 2008 – 2009 Member, Faculty Student Affairs Committee, UAMS College of Pharmacy
- 2007 – present Member, Admissions Committee, UAMS College of Pharmacy
- 2007 Member, Student Research Committee, UAMS College of Pharmacy
- 2007 – present UAMS College of Pharmacy PGY-1 Pharmacy Practice Resident recitation evaluator
- 2007 – present UAMS College of Pharmacy P3 Early Practice Experience mentor
- 2006 – present Member, Curriculum Committee, UAMS College of Pharmacy
- 2006 – 2007 Member, Self Study Curriculum Committee, UAMS College of Pharmacy
- 2006 – present Specialist in Poison Information Volunteer Committee, American Association of Poison Control Centers
- 2005 – present UAMS College of Pharmacy first year PharmD student small group leader
- 2003 – present Preceptor fourth year PharmD student clinical toxicology advance practice experience
- 2003 – present UAMS College of Pharmacy direct acute patient care conference leader
- 2003 – present UAMS College of Pharmacy PharmD student mentor
- 2003 – 2008 UAMS College of Pharmacy faculty liaison to the UAMS Department of Emergency Medicine
- 2003 – present American Association of Poison Control Centers Contact SPI for the Arkansas Poison Control Center
- 2000 – present Arkansas Poison Control Center Intern/PIP Supervisor

PROFESSIONAL MEMBERSHIPS

American Academy of Clinical Toxicology
American Association of Poison Control Centers
Arkansas Pharmacists Association
Arkansas Association of Health-System Pharmacists
National Home Infusion Association