

Personal Information

Full Name: Kirk L. Cumpston, D.O.

Title: Medical Director of the Virginia Poison Center

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Languages Spoken: English

Spanish

Russian

French

Professional Summary

Areas of Expertise and Interest

Emergency Medicine

Medical Toxicology

Addiction

Education

Post Graduate

Medical Toxicology Fellowship at Toxikon Consortium, John H. Stroger Jr. Hospital of Cook County, University of Illinois at Chicago Hospital, Rush Presbyterian Hospital, Illinois Poison Center, Chicago, IL, July 1, 2001 – June 30, 2003.

07/2001 - 06/2003

Emergency Medicine Residency, University of Illinois at Chicago, Chicago, IL, July 1, 1998 - June 30, 2001.

07/1998 - 06/2001

Graduate

Doctor of Osteopathic Medicine, DO, College of Osteopathic Medicine, Des Moines University, Des Moines, IA, August 1994 - May 1998.

08/1994 - 05/1998

Undergraduate

Russian Language and Literature, Bachelor of Arts, University of Minnesota, September 1992 - June 16, 1993.

08/1992 - 06/1993

General Biology, Bachelor of Science, Purdue University, August 1987 - May 1991.

08/1987 - 06/1993

Certification & Licensure

Licensure

Commonwealth of Virginia, expires October 31, 2020.
10/2006

Board certified in Medical Toxicology, December 2004 – 2014
Recertified November 2014 for 10 years
12/2004

Board certified in Emergency Medicine, November 2002 – 2012
Recertified October 2012 for 10 years
11/2002

Hospital Appointments

Virginia Commonwealth University Medical Center, October 2006 - present
10/2006 - Present

Academic Appointment History

Associate Professor (Term track), Division of Clinical Toxicology, Department of
Emergency Medicine, School of Medicine, Virginia Commonwealth University,
Richmond, VA, May 2012 – present.
05/2012 - Present

Assistant Professor (Term track), Division of Clinical Toxicology, Department of
Emergency Medicine, School of Medicine, Virginia Commonwealth University,
Richmond, VA, October 2006 – May 2012.
10/2006 - 05/2012

Assistant Professor (Collateral track) Department of Emergency Medicine, School of
Medicine, University of New Mexico, Albuquerque, NM, July 2003 - October 2006.
07/2003 - 10/2006

Assistant Professor (Collateral track) College of Pharmacy, University of New Mexico,
Albuquerque, NM, July 2003 - October 2006.
07/2003 - 10/2006

Clinical Instructor, Department of Emergency Medicine, School of Medicine, University
of Illinois at Chicago, Chicago, IL, July 2001 - June 2003.
07/2001 - 06/2003

Employment History

Associate Program Director - Competency, Emergency Medicine Residency, Department
of Emergency Medicine, Virginia Commonwealth University, Richmond, VA, March 2012
– June 30, 2013.

03/2012 - 06/2013

Associate Fellowship Director, Medical Toxicology Fellowship, Richmond, VA, July 1, 2011 - present.

07/2011 - Present

Director of the Toxicology/Environmental/Occupational Clinic, Virginia Commonwealth University Medical Center, Richmond, VA, October 2008 - present.

10/2008 - Present

Medical Director, Virginia Poison Center, Richmond, VA, July 1, 2007 – present.

07/2007 - Present

Assistant Medical Director, Virginia Poison Center, Richmond, VA, October 2006 - June 2007

10/2006 - 06/2007

Medical Director, New Mexico Poison and Drug Information Center, Albuquerque, NM, July 2003 - October 2006.

07/2003 - 10/2006

Director of the Toxicology/Environmental/Occupational Clinic, University of New Mexico Health Sciences Center, Albuquerque, NM, July 2003 - June 2006.

07/2003 - 06/2006

Staff physician, Department of Emergency Medicine, Mercy Hospital and Medical Center, Chicago, IL, July 2001 - June 2003.

07/2001 - 06/2003

Staff physician, Emergency Department, Ravenswood Hospital, Chicago, IL, March, 2001 - June 2001.

03/2001 - 06/2001

Special Awards & Honors

Golden Apple Award, Emergency Medicine Residency, Department of Emergency Medicine, Virginia Commonwealth University, Richmond, VA, June 2019. This award was given to me by the Emergency Medicine Program Director.

06/2019

Outstanding Teacher Award for Best Teacher, Class of 2021, Scientific Foundations of Medicine, Principles of Autonomics and Pharmacology Course, 2017-2018, Virginia Commonwealth University, School of Medicine, Richmond, VA, September 26, 2018. This award was based on the evaluations by medical students.

09/2018

Fellow of the American Academy of Emergency Medicine, August 1, 2017 - present. This award was given to me because of the years of service to my profession in Emergency Medicine.

08/2017

Outstanding Teacher Award in Undergraduate Medical Education, Faculty with High Evaluations Award, Class of 2018, Scientific Foundations of Medicine, Principles of Autonomics and Pharmacology, Virginia Commonwealth University, School of Medicine, Richmond, VA, October 21, 2015. This award was based on evaluations by medical students.

10/2015

Fellow of the American Academy of Clinical Toxicology, October 2014. I submitted an application that met the required diversity of service efforts. My peers of the AACT nominating committee granted me the award.

10/2014

Fellow of the American College of Medical Toxicology, September 2011. I submitted an application that met the required diversity of service efforts. My peers on the ACMT nominating committee granted me the award.

09/2011

Distinguished Faculty of the Year, Department of Emergency Medicine, VCUHS, 2008 - 2009. I was chosen for this award by the emergency medicine residents and program director.

06/2009

Project HEART Star, Virginia Commonwealth University School of Medicine, 2007-2008. I was given this award by the Dean's Office of School of Medicine at Virginia Commonwealth University.

07/2008

Fellow of the American College of Emergency Physicians, October 17, 2006. I met the criteria for Fellow status in ACEP.

10/2006

Society Memberships

Richmond Academy of Medicine, 2017 – present.

07/2017 - Present

Virginia College of Emergency Physicians, 2006 – present. I was elected by the membership to the Board of Directors in 2/2017.

07/2006 - Present

The Medical Society of Virginia, October 2006 - present.

07/2006 - Present

New Mexico College of Emergency Physicians, 2003 - 2006.

07/2003 - 10/2006

Member - American Association of Poison Control Centers, July 2003 - present.

Council of Medical Directors, 2003 – present.

07/2003 - Present

American College of Medical Toxicology, 2002 – present.
07/2002 - Present

American Academy of Emergency Medicine, 2002 – 2004, 2017 - present.
07/2002 - Present

American Academy of Clinical Toxicology, 2001 – present.

Elected President - Elect 10/2018 - 10/2020.

Elected to Board of Trustees 10/2014 - 17, re-elected 2017 - 2020.
07/2007 - Present

Society of Academic Emergency Medicine, 1997 - 2003, 2016 - present.
Member, Academy for Diversity and Inclusion in Emergency Medicine, 2017 - present.
07/1997 - Present

American College of Emergency Physicians, 1996-present.
07/1996 - Present

Scholarly Activities

Expert Services

Reviewer, Journal of Psychoactive Drugs, March 12, 2019.
03/2019 - 03/2019

Reviewer, Addiction Research and Adolescent Behavior, December 18, 2018
12/2018 - 12/2018

Reviewer, Psychiatric Times, December 11, 2018.
12/2018 - 12/2018

Chair, North American Congress of Clinical Toxicology Planning Committee, October 28, 2018 – present.
10/2018 - Present

Reviewer, Pediatric Emergency Care, September 6, 2018.
09/2018 - 09/2018

Reviewer, Annals of Emergency Medicine, June 5, 2018 – present.
06/2018 - Present

Grant Reviewer, American Academy of Clinical Toxicology, Research Awards Committee, 2016 – present
Student and Trainee NACCT Travel Award
Junior Investigator Research Award
Research Award

Knowledge Translation Award
07/2016 - Present

Grant Reviewer, American College of Medical Toxicology, Medical Toxicology Foundation, Innovative Teaching Awards, March 2015 – present.
03/2015 - Present

Reviewer, Toxicology Investigators Consortium (Toxic), American College of Medical Toxicology, Research Proposals, December 2014 – present.
12/2014 - Present

Reviewer, American College of Medical Toxicology Annual Scientific Meeting abstracts, 2014 – present
07/2014 - Present

Reviewer, Journal of the American College of Surgeons, March 2013.
03/2013 - 03/2013

Co-organizer, American College of Medical Toxicology, Scientific Symposium, North American Conference of Clinical Toxicology, Las Vegas, NV, October 2012.
10/2012 - 10/2012

Co-moderator, American Academy of Clinical Toxicology, Pre-meeting Scientific Symposium, North American Conference of Clinical Toxicology, Las Vegas, NV, October 2012.
10/2012 - 10/2012

American Academy of Clinical Toxicology, Director of Physician Continuing Medical Education, October 2012 – November 2019.
Webinars (44)

North American Congress of Clinical Toxicology: 2013-2019
10/2012 - 11/2019

Course Director, Advanced Hazardous Life Support, Virginia Beach, VA, May 16-18, 2012.
05/2012 - 05/2012

Reviewer, Western Journal of Emergency Medicine, October 2009 - present.
10/2009 - Present

Reviewer, Clinical Toxicology, June 2009 - present.
06/2009 - Present

Resuscitation, March 2009 - present.
03/2009 - Present

Reviewer, North American Congress of Clinical Toxicology abstracts, March 2008 - present.
03/2008 - Present

Cumpston KL, McKinney PE. Consultant Editor. Frohne D, Pfander HJ (eds.) *Poisonous Plants, A Handbook for Doctors, Pharmacists, Toxicologists, Biologists and Veterinarians*, 2nd Ed. , Manson Publishing, London, UK,2005.

12/2005 - 12/2005

Reviewer, Journal of Medical Toxicology, 2005 - present.

07/2005 - Present

Grants and Contracts: Active

Virginia Department of Health Program Support for Poison Centers. PI - S. Rutherford Rose. Fifty percent of my time at VCU is spent as the Virginia Poison Center Medical Director, FY 2008 – present.

07/2007 - Present

United States Health Resources and Services Administration Grant. PI - S. Rutherford Rose. Fifty percent of my time at VCU is spent as the Virginia Poison Center Medical Director, FY 2007 – present.

07/2007 - Present

Co-Investigator, PI – F. Gerard Moeller. Novel Preventive Treatment Paradigm to Change the Standard of Care for Those Who Recover from Opioid Overdose, UL1TR002649, September 15, 2017 – present.

09/2017 (in progress)

Grants and Contracts: Past

A Randomized Double-Blind, Placebo-Controlled Study comparing CroFab® versus Placebo with Rescue Treatment for Copperhead Snake Envenomation. PI - S. Rutherford Rose. Funded by BTG International. My effort was voluntary. April 2014 – 2015.

04/2014 - 04/2015

Real Time Disaster Detection, Diagnosis of Acute and Occult Chemical Exposures. PI - S. Rutherford Rose. FY 2008. \$184,000.00. My effort was voluntary creating and presenting lecture material.

07/2007 - 06/2008

I was the site PI - "Retrospective Evaluation of Local and Coagulopathy Recurrences Associated with Antivenom Therapy for Crotaline Snakebite Post-Marketing Surveillance of Recurrence After Crotaline Snakebite Treatment," The University of New Mexico Health Sciences Center, Albuquerque, NM, 2004-2005. Fougera Pharmaceuticals \$106,000. My effort was voluntary.

07/2004 - 06/2005

I was the site PI - "The Efficacy and Safety of Aracmyn® [Antivenin Latrodectus (Black Widow) Equine Immune F(ab)2] in Patients with Systemic Latrodectism: Multicenter, Randomized, Double-Blind Trial.", Phase II, Principle Investigator (at site), 2003-2006. BioClon Pharmaceuticals \$345,000. My effort was voluntary.

07/2003 - 06/2006

Bioterrorism Training and Curriculum Development Program funded by Health Resources and Services Administration. PI - Michael Richards. Advanced Disaster Life

Support/Basic Disaster Life Support (ADLS/BDLS), Instructor and Content expert, 2003 - 2008. \$1,491,550.00.
07/2003 - 10/2006

United States Health Resources and Services Administration Grant. PI - Jess Benson. New Mexico Poison and Drug Information Center, Medical Director, FY 2003 - 2006. Cumulative \$549,384.00.
07/2003 - 10/2006

Advising and Mentoring

I was a mentor for a newly graduated attending physician in a private hospital system as a Board of Director member of the Virginia College of Emergency Physicians. He enrolled in the VACEP, Leadership and Advocacy Fellowship, September 6, 2018 – 2019. We met for four contact hours total.
09/2018 - 09/2018

Faculty Coach, VCU Entrustable Professional Activity (EPA), April 18, 2018 – June 30, 2019. I coached 8 students for 15 contact hours total.
04/2018 - 06/2019

I mentored two medical students from the VCU School of Medicine in a research project. The abstract "Impact of healthcare resources on intentional and unintentional toxic exposures in urban and rural communities" was published. One was the recipient of the AACT Student and Trainee NACCT Travel Award, September 25, 2018. We are currently working on a peer reviewed publication. We have met for 25 contact hours total.
11/2017 - Present

I have mentored Ashley Litchfield, a Pediatric Emergency Medicine Fellow, in the Department of Emergency Medicine, Virginia Commonwealth University Medical Center, from July 2017 – present. She has three research projects and a quality improvement project. We have met for six contact hours total.
06/2017 - Present

I was a mentor for 6 Emergency Medicine Residents in the Virginia Commonwealth University School of Medicine Resident/Fellow Research Day, for 12 contact hours total.
06/2016 - 06/2018

I have been a mentor for 6 Medical Toxicology fellows from 2011 until present, for 1,008 contact hours.
07/2011 - Present

I have been an advisor for 11 Emergency Medicine residents since 2008, for 33 contact hours total.
07/2008 - Present

Since 10/2007 I have been a Project HEART mentor at VCU School of Medicine. I have mentored 42 medical students for 100 contact hours total.
10/2007 - Present

I have been an adviser for four medical students from the VCU School of Medicine for 35 contact hours total.
07/2008 - 06/2015

Presentations

Invited

Internal/VCU

Brown Recluse Spider Envenomation, Department of Emergency Medicine, Virginia Commonwealth University, Richmond, VA, Emergency Medicine residents, 10 attendees, June 18, 2019.

Using Buprenorphine in the ED for Opioid Withdrawal, Department of Emergency Medicine, Virginia Commonwealth University, Richmond, VA, Emergency Medicine residents, 10 attendees, May 22, 2019.

Baclofen withdrawal - CPC, Department of Emergency Medicine, Virginia Commonwealth University, Richmond, VA, Emergency Medicine residents, 20 attendees, May 1, 2019.

General Approach to the Overdose Patient, EM Bootcamp, Department of Emergency Medicine, Virginia Commonwealth University, Richmond, VA, M4, M3 students, 30 attendees, April 25, 2019.

Stuffers and Packers, Department of Emergency Medicine, Virginia Commonwealth University, Richmond, VA, Emergency Medicine residents, 10 attendees, April 23, 2019.

The Catnip Cocktail, 1,4 BD toxicity, Department of Emergency Medicine, Virginia Commonwealth University, Richmond, VA, Emergency Medicine residents, 10 attendees, March 19, 2019.

The Difficult Airway, Department of Emergency Medicine, Virginia Commonwealth University, Richmond, VA, Emergency Medicine residents, 20 attendees, March 6, 2019.

Toxicology Practical, Department of Emergency Medicine, Virginia Commonwealth University, Richmond, VA, Emergency Medicine residents, 20 attendees, February 6, 2019.

Fentanyl Exposure to Healthcare Workers, Emergency Preparedness Meeting, Virginia Commonwealth University, Richmond, VA, Multi-disciplinary meeting, 20 attendees, March 4, 2019.

Rapid Fire Miscellaneous Tox, Department of Emergency Medicine, Virginia Commonwealth University, Richmond, VA, Emergency Medicine residents, 30 attendees, January 30, 2019.

Toxin Advanced Interventional Life Support, Department Virginia Commonwealth University, Richmond, VA, Emergency Medicine residents, 30 attendees, January 30, 2019.

Terrestrial Envenomations, Department of Emergency Medicine, Virginia Commonwealth University, Richmond, VA, Emergency Medicine residents, 30 attendees, January 23, 2019.

Carbon Monoxide, Department of Emergency Medicine, Virginia Commonwealth University, Richmond, VA, Emergency Medicine residents, 10 attendees, January 8, 2019.

Natural Neurotoxicity, Neurology residency, Virginia Commonwealth University, Richmond, VA, Neurology residents, 15 attendees, December 5, 2018.

Nootropics Tianeptine and Phenibut, Department of Emergency Medicine, Virginia Commonwealth University, Richmond, VA, Emergency Medicine residents, 10 attendees, December 4, 2018.

Critical Care Toxicology, Nurse Practitioner Program, Virginia Commonwealth University School of Nursing, Richmond, VA, nurse practitioner students, 30 attendees, November 20, 2018.

When Nature Strikes Back: Pediatric Envenomations, Pediatric Emergency Medicine Fellowship, Division of Pediatric Emergency Medicine, Department of Emergency Medicine, Virginia Commonwealth University, Richmond, VA, fellows, 8 attendees, November 14, 2018.

Pediatric Tox Advanced Life Support, Pediatric Emergency Medicine Fellowship, Division of Pediatric Emergency Medicine, Department of Emergency Medicine, Virginia Commonwealth University, Richmond, VA, fellows, 6 attendees, November 7, 2018.

Tramadol and seizures after naloxone, Department of Emergency Medicine, Virginia Commonwealth University, Richmond, VA, Emergency Medicine residents, 10 attendees, November 6, 2018.

Activated charcoal for gastrointestinal decontamination and enhanced elimination, Department of Emergency Medicine, Virginia Commonwealth University, Richmond, VA, Emergency Medicine residents, 10 attendees, October 9, 2018.

Transport Physiology, Critical Care Emergency Medical Transport Program, Center for Trauma and Critical Care Education, Virginia Commonwealth University, Richmond, VA, paramedics, 20 attendees, September 17, 2018.

International Top 10 Toxins, Department of Emergency Medicine, Resident Retreat, Virginia Commonwealth University, Richmond, VA, Emergency Medicine Residents, 30 attendees, September 5, 2018.

Pain and Overdose Prevention Lecture, Department of Emergency Medicine, Virginia Commonwealth University, Richmond, VA, Emergency Medicine Residents, 30 attendees, August 8, 2018.

The Use of Suboxone in the Emergency Department, Department of Emergency Medicine, Virginia Commonwealth University, Richmond, VA, Emergency Medicine Residents, 8 attendees, July 10, 2018.

The Approach to the Poisoned Patient, Department of Emergency Medicine, Virginia Commonwealth University, Richmond, VA, Emergency Medicine Interns and medical students, 16 attendees, June 27, 2018.

Gastric Decontamination, Department of Emergency Medicine, Virginia Commonwealth University, Richmond, VA, Emergency Medicine Residents, 10 attendees, June 19, 2018.

Medical Toxicology Fellowship, Department of Emergency Medicine, Virginia Commonwealth University, Richmond, VA, Emergency Medicine Residents, 10 attendees, June 13, 2018.

Synthetic cannabinoids with brodifacoum adulteration, Department of Emergency Medicine, Virginia Commonwealth University, Richmond, VA, Emergency Medicine Residents, 10 attendees, April 3, 2018.

Carfentanil Overdose: Myth Buster, Department of Emergency Medicine, Virginia Commonwealth University, Richmond, VA, Emergency Medicine Residents and students, 10 attendees, March 6, 2018.

Neurology/Hematology/Dermatology/Administration Review for In Training Examination, Department of Emergency Medicine, Virginia Commonwealth University, Richmond, VA, Emergency Medicine residents, 20 attendees, February 14, 2018.

Epidural Hematoma – CPC, Department of Emergency Medicine, Virginia Commonwealth University, Richmond, VA, 20 attendees, February 7, 2018.

Emergency Medicine News Toxicology Rounds Fifth Annual Tox Quiz, Department of Emergency Medicine, Virginia Commonwealth University, Richmond, VA, Emergency Medicine Residents, 15 attendees, January 23, 2018.

Introduction to Medical Toxicology, M1 Pharmacology Course, MEDI 113, Virginia Commonwealth University, Richmond, VA, medical students, 216 attendees, October 18, 2017.

One Pill Can Kill, Department of Emergency Medicine, Virginia Commonwealth University, Richmond, VA, 30 attendees, September 27, 2017.

Transport Physiology, Critical Care Emergency Medical Transport Program, Center for Trauma and Critical Care Education, Virginia Commonwealth University, Richmond, VA, paramedics, 20 attendees, September 18, 2017.

Terrestrial Evenomations, Department of Emergency Medicine, Virginia Commonwealth University, Richmond, VA, 30 attendees, September 13, 2017.

Rapid Fire Toxicology Topics, Department of Emergency Medicine, Virginia Commonwealth University, Richmond, VA, 30 attendees, September 13, 2017.

Marine Envenomations, Department of Emergency Medicine, Virginia Commonwealth University, Richmond, VA, Resident Retreat, 30 attendees, September 6, 2017.

Careers in Medical Toxicology, Department of Emergency Medicine, Virginia Commonwealth University, Richmond, VA, residents and students, 30 attendees, August 30, 2017.

Chronic Digoxin toxicity case, Department of Emergency Medicine, Virginia Commonwealth University, Richmond, VA, Emergency Medicine residents and students, 15 attendees, August 22, 2017.

Pre-intubation Airway lecture, Department of Emergency Medicine, Virginia Commonwealth University, Richmond, VA, Emergency Medicine residents, 15 attendees, July 27, 2017.

Pneumocystis jirovecii pneumonia, CPC – discussant- Department of Emergency Medicine, Virginia Commonwealth University, Richmond, VA, Emergency Medicine residents, 20 attendees, April 26, 2017.

Medical Toxicology, Medical Student Critical Care Interest Group, Virginia Commonwealth University, School of Medicine, 20 attendees, April 17, 2017.

New Drugs of Abuse, Department of Emergency Medicine, Virginia Commonwealth University, Richmond, VA, Emergency Medicine residents, 20 attendees, April 12, 2017.

Evaluation of the Injured Knee, Department of Emergency Medicine, Virginia Commonwealth University, Richmond, VA, Emergency Medicine residents, 20 attendees, March 1, 2017.

Neurology/Hematology/Dermatology/Administration Review for In Training Examination, Department of Emergency Medicine, Virginia Commonwealth University, Richmond, VA, Emergency Medicine residents, 20 attendees, February 8, 2017.

Acetaminophen Toxicity in Children and Adults, Medicine/Pediatrics Residency, Virginia Commonwealth University, Richmond, VA, residents, 15 attendees, November 8, 2016.

Introduction to Medical Toxicology, M1 Pharmacology Course, MEDI 113, Virginia Commonwealth University, Richmond, VA, medical students, 216 attendees, October 12, 2016.

Endocrine, Critical Care Emergency Medical Transport Program, Center for Trauma and Critical Care Education, Virginia Commonwealth University, Richmond, VA, paramedics, 20 attendees, October 4th, 2016.

Marine Toxins, Emergency Medicine resident conference, Department of Emergency Medicine, Virginia Commonwealth University, Richmond, VA, Emergency Medicine residents, 30 attendees, September 28, 2016.

Crotalinae, Coral snake, Black-widow spider, Brown recluse spider, Bark scorpion Session, Wilderness Medicine, Emergency Medicine Resident Retreat, Department of Emergency Medicine, Virginia Commonwealth University, Richmond, VA, Emergency Medicine residents, 30 attendees, September 7, 2016.

Crotalinae, Coral snake, Black-widow spider, Brown recluse spider, Bark scorpion Wilderness Medicine Question and Answer Session Small groups, Department of Emergency Medicine, Virginia Commonwealth University, Richmond, VA, Emergency Medicine residents, 30 attendees, August 31, 2016..

Introduction to Medical Toxicology for EM and EM/IM interns, Department of Emergency Medicine, Virginia Commonwealth University, Richmond, VA, Emergency Medicine residents, 12 attendees, July 12, 2016.

Hypothyroidism, Myxedema Coma Small Groups, Department of Emergency Medicine, Virginia Commonwealth University, Richmond, VA, Emergency Medicine residents, 7 attendees, June 22, 2016.

Medical Toxicology Practical, Department of Emergency Medicine, Virginia Commonwealth University, Richmond, VA, Emergency Medicine residents, 30 attendees, May 4, 2016.

One Pill Can Kill, Department of Emergency Medicine, Virginia Commonwealth University, Richmond, VA, Emergency Medicine residents, 30 attendees, April 27, 2016.

Botulism and Tetanus, Department of Emergency Medicine, Virginia Commonwealth University, Richmond, VA, Small groups, Emergency Medicine residents, 20 attendees, April 6, 2016.

Arachnid Apocalypse, Virginia Commonwealth University, School of Medicine, Richmond, VA, M1 medical students, Wilderness Medicine Interest Group, 30

attendees, March 3, 2016.

Neurology/Hematology/Dermatology/Administration Review for In Training Examination, Department of Emergency Medicine, Virginia Commonwealth University, Richmond, VA, Emergency Medicine residents, 30 attendees, February 17, 2016

Neurology/Psychology Review for In Training Examination, Department of Emergency Medicine, Virginia Commonwealth University, Richmond, VA, Emergency Medicine residents, 30 attendees, February 17, 2016.

Envenomous Snakes of the USA, Virginia Commonwealth University, School of Medicine, Richmond, VA, M1 medical students Wilderness Medicine Interest Group, 20 attendees, January 28, 2016.

The General Approach to the Overdose Patient, Department of Emergency Medicine, Virginia Commonwealth University, Richmond, VA, Small groups, Emergency Medicine residents, 30 attendees, January 6, 2016.

The Evaluation of the Injured Knee, Department of Emergency Medicine, Virginia Commonwealth University, Richmond, VA, Emergency Medicine residents, 30 attendees, November 11, 2015.

Pediatric Medical Toxicology Test and Lecture, Procedural Course in Pediatrics, Virginia Commonwealth University, Richmond, VA, Pediatric residents, 6 attendees, November 4, 2015.

Introduction to Medical Toxicology, M1 Pharmacology and Toxicology Course, MEDI 113, Virginia Commonwealth University, Richmond, VA, medical students, 214 attendees, October 7, 2015.

Pediatric Medical Toxicology Test and Lecture, Procedural Course in Pediatrics, Virginia Commonwealth University, Richmond, VA, Pediatric residents, 4 attendees, October 6, 2015.

Pediatric Toxicology Review: Part 1, Virginia Commonwealth University, Richmond, VA, pediatric residents and medical students, 20 attendees, May 13, 2015.

Poison Centers and Medical Toxicologists, PHTX 535, Graduate Elective, Virginia Commonwealth University, Richmond, VA, graduate students, 6 attendees, April 14, 2015.

Cyanide, Carbon monoxide and methemoglobinemia, Emergency Medicine Residency Conference, Virginia Commonwealth University, Richmond, VA, Emergency Medicine Residents, 20 attendees, February 18, 2015.

Toxicology Practical Examination, Emergency Medicine Residency Conference, Virginia Commonwealth University, Richmond, VA, Emergency Medicine Residents, 20

attendees, February 11, 2015.

Terrestrial Bites and Stings, Virginia Commonwealth University, Department of Emergency Medicine, Richmond, VA, Emergency Medicine residents, 16 attendees, February 4, 2015.

Female Parts, Dysfunctional Uterine Bleeding, Ovarian Cysts and Ovarian Torsion, Virginia Commonwealth University, Department of Emergency Medicine, Richmond, VA, Emergency Medicine residents, 20 attendees, November 12, 2014.

Introduction to Medical Toxicology, M1 Pharmacology Course, MEDI 113, Virginia Commonwealth University, School of Medicine, Richmond, VA, M1 medical students, 216 attendees, October 13, 2014.

Mechanisms of Alcohol Withdrawal and Therapeutic Options in the Intensive Care Unit, Virginia Commonwealth University, Division of Critical Care, Critical Care Conference, Richmond, VA, Attendings, fellows, residents and medical students, 20 attendees, October 8, 2014.

Bites and Stings, Virginia Commonwealth University, Department of Pediatrics, Richmond, VA, Pediatric residents and medical students, 30 attendees, July 15, 2014.

Introduction to Medical Toxicology, Virginia Commonwealth University, Department of Emergency Medicine, Richmond, VA, Emergency Medicine and EM/IM interns, 12 attendees, July 14, 2014

Anticonvulsants, Virginia Commonwealth University, Department of Emergency Medicine, Richmond, VA, Emergency Medicine residents, 15 attendees, June 4, 2014.

Neurological Toxicology, Virginia Commonwealth University, Department of Emergency Medicine, Richmond, VA, Emergency Medicine residents, 30 attendees, April 9, 2014.

Toxicology Practical Lab, Board Review, Virginia Commonwealth University, Department of Emergency Medicine, Richmond, VA, Emergency Medicine residents, 30 attendees, February 19, 2014.

Diabetes Medications, Virginia Commonwealth University, Department of Emergency Medicine, Richmond, VA, Emergency Medicine residents, 30 attendees, October 23, 2013.

Toxicants, Virginia Commonwealth University, School of Medicine, Autonomics and Pharmacology Course, Richmond, VA, M1 medical students, 216 attendees, October 2013.

Toxins, Virginia Commonwealth University, School of Medicine, Autonomics and Pharmacology Course, Richmond, VA, M1 medical students, 216 attendees, October 2013.

Current Drugs of Abuse, Virginia Commonwealth University, Department of Pediatrics, Richmond, VA, Pediatric residents, 20 attendees, October 3, 2013.

Introduction to Medical Toxicology, M2 Pharmacology Course, Virginia Commonwealth University, School of Medicine, Richmond, VA, medical students, 200 attendees, August 7, 2013.

Introduction to Medical Toxicology, Virginia Commonwealth University, Department of Emergency Medicine, Richmond, VA, Emergency Medicine Interns, 12 attendees, July 25, 2013.

Designer Drugs, Virginia Commonwealth University Public Relations, Lewis-Ginter Botanical Gardens, Richmond, VA, public and healthcare professionals, 77 attendees, July 18, 2013.

Bites and Stings, Virginia Commonwealth University, Pediatric Grand Rounds, Richmond, VA, pediatric residents, 30 attendees, July 3, 2013.

Introduction to Medical Toxicology, Virginia Commonwealth University, Department of Emergency Medicine, Richmond, VA, James Madison University PA students, 5 attendees, May 1, 2013.

General Approach to the Poisoned Patient, Virginia Commonwealth University, School of Medicine, Capstone Program, Richmond, VA, M4 students, 180 attendees, April 19, 2013.

Toxicology Board Review, Toxicology Lab, Virginia Commonwealth University, Department of Emergency Medicine, Richmond, VA, emergency medicine residents, 30 attendees, January 30, 2013.

Case study of 3rd degree Heart Block and temporary pacemakers, Virginia Commonwealth University, Department of Emergency Medicine, Richmond, VA, emergency medicine residents, 20 attendees, January 2, 2013.

Introduction to Medical Toxicology, Virginia Commonwealth University, Department of Emergency Medicine, Richmond, VA, medical students, 3 attendees, November 21, 2012.

Introduction to Medical Toxicology, Virginia Commonwealth University, Department of Emergency Medicine, Richmond, VA, medical students, 7 attendees, October 24, 2012.

Introduction to Medical Toxicology, Virginia Commonwealth University, Department of Emergency Medicine, Richmond, VA, medical students, 9 attendees, September 26, 2012.

Introduction to Medical Toxicology, M2 Pharmacology Course, Virginia Commonwealth University, School of Medicine, Richmond, VA, medical students, 200 attendees, August 8, 2012.

The Word on the Street, New trends in street drugs, Regional Drug Free Alliance, Richmond, VA, public members of organization, 15 attendees, June 29, 2012.

The Virginia Poison Center, Crotalid Envenomation, Acetaminophen toxicity, Nursing CME, Memorial Regional Hospital, Mechanicsville, VA, nursing staff, 23 attendees, June 15, 2012.

Neurotoxicology, Virginia Commonwealth University, Department of Emergency Medicine, Richmond, VA, emergency medicine residents, 30 attendees, June 6, 2012.

Smoke Inhalation, Pediatric Resident Education, Virginia Commonwealth University, Department of Pediatrics, Richmond, VA, 20 attendees, May 11, 2012.

General Approach to Pediatric Toxicology, Pediatric Resident Education, Virginia Commonwealth University, Department of Pediatrics, Richmond, VA, 20 attendees, May 11, 2012.

Bites and Stings, Pediatric Resident Education, Virginia Commonwealth University, Department of Pediatrics, Richmond, VA, 30 attendees, May 2, 2012.

Crotalid Envenomations in Children, Virginia Commonwealth University, Department of Emergency Medicine, Richmond, VA, 4 nurse attendees, April 24, 2012.

Psilocybin Toxicity, Just Say Know Program, Virginia Commonwealth University, Richmond, VA, VCU undergraduates, 30 attendees, February 29, 2012.

Toxicology Practical, Virginia Commonwealth University, Department of Emergency Medicine, Richmond, VA, emergency medicine residents, 30 attendees, February 22, 2012.

Pediatric Toxins: What's New, St. Mary's Hospital, Henrico County, VA, pediatricians, pediatric intensivists, pediatric ICU, University of Virginia medical students, and Pediatric attendings, 22 attendees, February 16, 2012.

The Virginia Poison Center, Critical Care Nursing CME, St. Mary's Hospital, Henrico County, VA, critical care, step down and emergency medicine nurses, 50 attendees, January 18, 2012.

Pit Vipers and Fasciotomy, Virginia Commonwealth University, Department of Emergency Medicine/Internal Medicine combined conference, Richmond, VA, residents and faculty, 40 attendees, December 7, 2011.

GI Toxicity, Virginia Commonwealth University, Department of Emergency Medicine,

Richmond, VA, residents, faculty and medical students, 30 attendees, November 16, 2011.

Bites and Stings, Wilderness Medicine Course, Virginia Commonwealth University, School of Medicine, Department of Emergency Medicine, Richmond, VA, M2 students, 18 attendees, October 20, 2011.

Hormones and Health Supplements, Virginia Commonwealth University, Department of Emergency Medicine, Richmond, VA, residents and attending physicians, 40 attendees, October 5, 2011.

Introduction to Medical Toxicology, Virginia Commonwealth University, Department of Emergency Medicine, Richmond, VA, medical students, 8 attendees, October 5, 2011.

Introduction to Medical Toxicology, M2 Pharmacology Course, Virginia Commonwealth University, School of Medicine, Richmond, VA, medical students, 200 attendees, August 9, 2011.

Poisoning in Pregnancy, Virginia Commonwealth University, Department of Emergency Medicine, Richmond, VA, emergency medicine residents, 30 attendees, June 1, 2011.

Cyanide and Smoke Inhalation, Advanced Burn Life Support, Henrico County EMS training center, nurses, EMS, 20 attendees, May, 21, 2011.

Bites and Stings, Pediatric Conference, Virginia Commonwealth University, Richmond, VA, pediatric residents, 30 attendees, May 17, 2011.

Drugs and Hemodialysis, Virginia Commonwealth University, Department of Emergency Medicine, Richmond, VA, emergency medicine residents, 30 attendees, May 4, 2011.

Sedative Hypnotics/Opioids, Virginia Commonwealth University, Department of Emergency Medicine, Richmond, VA, emergency medicine residents, 30 attendees, April 13, 2011.

Perfusion Salad, Grand Rounds Division of Critical Care, Virginia Commonwealth University, Richmond, VA, Critical Care faculty and fellows, 20 attendees, April 11, 2011.

Introduction to Medical Toxicology, Virginia Commonwealth University, Department of Emergency Medicine, Richmond, VA, medical students, 12 attendees, Feb 9, 2011.

Neurotoxicology, Virginia Commonwealth University, Department of Emergency Medicine, Richmond, VA, emergency medicine residents, 30 attendees, August 25, 2010.

Heavy Metals, Virginia Commonwealth University, Department of Emergency Medicine, Richmond, VA, emergency medicine residents, 30 attendees, August 11, 2010.

Introduction to Medical Toxicology, M2 Pharmacology Course, Virginia Commonwealth University, Richmond, VA, medical students, 180 attendees, August 3, 2010.

WMD Jeopardy, Virginia Commonwealth University, Department of Emergency Medicine, Richmond, VA, emergency medicine residents, 30 attendees, May 26, 2010.

Toxicology Review Lab, Virginia Commonwealth University, Department of Emergency Medicine, Richmond, VA, emergency medicine residents, 30 attendees January 27, 2010.

Hormones and Herbal Toxicology, Virginia Commonwealth University, Department of Emergency Medicine, Richmond, VA, emergency medicine residents, 30 attendees, January 13, 2010.

Introduction to Toxicology, Virginia Commonwealth University, Department of Emergency Medicine, Richmond, VA, medical students, 5 attendees, December, 2009.

Drugs and Hemodialysis, Virginia Commonwealth University, Department of Emergency Medicine, Richmond, VA, emergency medicine residents, 35 attendees, October 21, 2009.

Introduction to Toxicology, Virginia Commonwealth University, Department of Emergency Medicine, Richmond, VA, medical students, 10 attendees, September, 2009.

Introduction to Toxicology, Virginia Commonwealth University, Department of Emergency Medicine, Richmond, VA, medical students, 6 attendees August 12, 2009.

Smoke Inhalation, Virginia Commonwealth University, Department of Emergency Medicine, Richmond, VA, emergency medicine residents, 35 attendees, August 5, 2009.

Introduction to Medical Toxicology, M2 Pharmacology Course, Virginia Commonwealth University, Richmond, VA, medical students, 150 Medical attendees, August 4, 2009.

Hydrocarbons, Virginia Commonwealth University, Department of Emergency Medicine, Richmond, VA, emergency medicine residents, 35 attendees July 29, 2009.

Intern Introduction to Toxicology, Virginia Commonwealth University, Department of Emergency Medicine, Richmond, VA, emergency medicine interns, 10 attendees, July 8, 2009.

One Pill Can Kill, Virginia Commonwealth University, Richmond, VA, pediatric residents, 20 attendees, May, 26, 2009.

Bites and Stings, Virginia Commonwealth University, Richmond, VA, pediatric residents, 15 attendees, May 19, 2009.

Ethanol Poisoning in Pediatrics, Pediatric Morning Report, Virginia Commonwealth University, Richmond, VA, 20 attendees, March 27, 2009.

Introduction to Toxicology, Virginia Commonwealth University, Department of Emergency Medicine, Richmond, VA, medical students, 10 attendees, March 4, 2009.

Introduction to Toxicology, Virginia Commonwealth University, Department of Emergency Medicine, Richmond, VA, medical students, 8 attendees, February 4, 2009.

Neurotoxicology: Organophosphates/Carbamates, Virginia Commonwealth University, Richmond, VA, neurology residents, 10 attendees, January 16, 2009.

Introduction to Toxicology, Virginia Commonwealth University, Department of Emergency Medicine, Richmond, VA, medical students, , 3 attendees, November 26, 2008.

Introduction to Toxicology, Virginia Commonwealth University, Department of Emergency Medicine, Richmond, VA, medical students, 8 attendees, October 29, 2008.

GI Toxicology, Virginia Commonwealth University, Department of Emergency Medicine, Richmond, VA, emergency medicine residents, 30 attendees, October 22, 2008.

Controversies in Prehospital Cocaine and Opioid Overdoses, Richmond Ambulance Authority, Richmond, VA, EMS, , 15 attendees, October 21, 2008.

Gastrointestinal Decontamination, Virginia Commonwealth University, Department of Emergency Medicine, emergency medicine residents, 30 attendees, October 15, 2008.

Drug Interactions/Endo/Renal, Chesterfield Fire and EMS, Chesterfield County, VA, EMS, 30 attendees, September 24, 2008.

Drug Interactions/Endo/Renal, Chesterfield Fire and EMS, Chesterfield County, VA, EMS, 20 attendees, September 17, 2008.

Drug Interactions/Endo/Renal, Chesterfield Fire and EMS, Chesterfield County, VA, EMS, 30 attendees, September 10, 2008.

Neurotoxicology, Virginia Commonwealth University, Department of Emergency Medicine, Richmond, VA, emergency medicine residents, 30 attendees, September 3, 2008.

Introduction to Toxicology, Virginia Commonwealth University, Richmond, VA Medical Students, 11 attendees, September 3, 2008.

Anticonvulsants, Virginia Commonwealth University, Department of Emergency

Medicine, Richmond, VA, emergency medicine residents, 30 attendees, August 27, 2008.

Chemical Weapons, Virginia Commonwealth University, Richmond, VA, Masters of Public Health Students, 10 attendees, July 17, 2008.

The History of Chemical Weapons, Virginia Commonwealth University, Richmond, VA, Masters of Public Health Students, 10 attendees, July 17, 2008.

Introduction to Toxicology, Virginia Commonwealth University, Department of Emergency Medicine, Richmond, VA, emergency medicine interns, 10 attendees, July 9, 2008.

One Pill Can Kill, Virginia Commonwealth University, Department of Emergency Medicine, Richmond, VA, emergency medicine residents, 30 attendees June 11, 2008.

Arsenic Toxicity, Emergency Medicine/Internal Medicine Combined Conference, Virginia Commonwealth University, Richmond, VA, physicians, 40 attendees, June 4, 2008.

The Toxicity of Cyanide in Smoke Inhalation, Trauma Conference, Virginia Commonwealth University, Department of Emergency Medicine, Richmond, VA, nurses, physicians, 25 attendees, May 20, 2008.

Street Drugs, Chesterfield Fire and EMS, Chesterfield County, VA, EMS, 25 attendees, May 14, 2008.

Street Drugs, Chesterfield Fire and EMS, Chesterfield County, VA, EMS, 25 attendees, May 7, 2008.

Acute Psychosis, Virginia Commonwealth University, Department of Emergency Medicine, Richmond, VA, emergency medicine residents, , 30 attendees, March 12, 2008.

Methemoglobinemia, Virginia Commonwealth University, Department of Emergency Medicine, Richmond, VA, emergency medicine residents, , 30 attendees, November 7, 2007.

Hormones and Health Supplements, Virginia Commonwealth University, Department of Emergency Medicine, Richmond, VA, emergency medicine residents, 30 attendees, October 4, 2007.

RSI/Procedural Sedation, Virginia Commonwealth University, Department of Emergency Medicine, Richmond, VA, emergency medicine residents, , 30 attendees, August 29, 2007.

Toxicology of Analgesics, Virginia Commonwealth University, Department of Emergency Medicine, Richmond, VA, emergency medicine residents, 30 attendees, August 22,

2007.

Toxicology Introduction, Virginia Commonwealth University, Department of Emergency Medicine, Richmond, VA, emergency medicine intern orientation, VCU, 12 attendees, July 11, 2007.

Chemical Weapons, Virginia Commonwealth University, Richmond, VA, Masters of Public Health Students, 7 attendees, July, 9, 2007.

History of Chemical Weapons, Virginia Commonwealth University, Richmond, VA, Masters of Public Health Students, 7 attendees, July, 9, 2007.

Smoke Inhalation, Virginia Commonwealth University, Department of Emergency Medicine, Richmond, VA, pediatric residents, 30 attendees, April, 20, 2007.

N-acetylcysteine, Virginia Commonwealth University, Department of Emergency Medicine, Richmond, VA, nurses, 5 attendees, February 28, 2007.

Toxicity of Psychiatric Medications, Virginia Commonwealth University, Department of Emergency Medicine, Richmond, VA, emergency medicine residents, 30 attendees, February 14, 2007.

02/2007 (in progress)

Local/Regional (Virginia but Non-VCU)

Toxicology Advanced Interventional Life Support, Eastern Virginia Medical School, Department of Emergency Medicine, Emergency Medicine Residency, Norfolk, VA, residents, 27 attendees, February 21, 2019.

Rapid Fire Toxicology Review Topics, Eastern Virginia Medical School, Department of Emergency Medicine, Emergency Medicine Residency, Norfolk, VA, residents, 27 attendees, February 21, 2019.

Toxicology Chem/Bio Cases, Eastern Virginia Medical School, Department of Emergency Medicine, Emergency Medicine Residency, Norfolk, VA, residents, 27 attendees. February 21, 2019.

Toxicology Practical, Eastern Virginia Medical School, Department of Emergency Medicine, Emergency Medicine Residency, Norfolk, VA, residents, 27 attendees, February 21, 2019.

New Drug Threats: Recognition and Treatment, Virginia EMS Symposium 2018, Norfolk, VA, 81 attendees, paramedics and nurses, November 9, 2018.

Fentanyl Derivatives: The Elephant Tranquilizer in the Room, VCU ECHO Clinical Program, Virginia Commonwealth University Health System, 17 call sites, November 2,

2018.

Critical Actions in Intensive Care: Treatment of Morbidity from Substance Abuse, Society of Critical Care Medicine Carolinas-Virginias Chapter Annual Conference, 80 attendees, June 11, 2018.

Crotalinae and Elapidae in the USA, Keynote Speaker, Bite Club Symposium, Virginia Aquarium, Portsmouth Naval Emergency Medicine residents and faculty, and community emergency medicine attendings, 65 attendees, February 2, 2018.

Toxicology Advanced Life Support, Eastern Virginia Medical School, Department of Emergency Medicine, Emergency Medicine Residency, Norfolk, VA, residents, 27 attendees, February 15, 2018.

Rapid Fire Toxicology Review Topics, Eastern Virginia Medical School, Department of Emergency Medicine, Emergency Medicine Residency, Norfolk, VA, residents, 27 attendees, February 15, 2018.

Toxicology Visual Stimulation, Eastern Virginia Medical School, Department of Emergency Medicine, Emergency Medicine Residency, Norfolk, VA, residents, 27 attendees. February 15, 2018.

Toxicology Practical, Eastern Virginia Medical School, Department of Emergency Medicine, Emergency Medicine Residency, Norfolk, VA, residents, 27 attendees, February 15, 2018.

Terror in the Streets: When Drugs of Abuse Become Drugs of Death, Virginia EMS Symposium, Norfolk, VA, pre-hospital providers, nurses, physicians, 132 attendees, November 11, 2017.

Overdose in the USA, Grand Rounds, Mary Washington Medical Center, Fredericksburg, VA, physicians, 42 attendees, September 29, 2017.

Drugs of Abuse, Bon Secours CME Night Out, Henrico County, VA, physicians, 90 attendees, September 27, 2017.

Overdose in the USA, Bon Secours CME Night Out, Henrico County, VA, physicians, 90 attendees, September 27, 2017.

Drug Use and Abuse: Trends among our youth, 2017 School Safety Training Forum, Hampton Convention Center, Hampton, VA, police, school nurses, administrators, 180 attendees, August 9, 2016.

Opioid Overdose in the USA, Community Memorial Hospital – VCU, South Hill, VA, attendings, 20 attendees, July 10, 2017.

Toxicology Advanced Life Support, Eastern Virginia Medical School, Department of

Emergency Medicine, Emergency Medicine Residency, Norfolk, VA, residents, 27 attendees, February 9, 2017.

Rapid Fire Toxicology Review Topics, Eastern Virginia Medical School, Department of Emergency Medicine, Emergency Medicine Residency, Norfolk, VA, residents, 27 attendees, February 9, 2017.

Toxicology Visual Stimulation, Eastern Virginia Medical School, Department of Emergency Medicine, Emergency Medicine Residency, Norfolk, VA, residents, 27 attendees. February 9, 2017.

Toxicology Practical, Eastern Virginia Medical School, Department of Emergency Medicine, Emergency Medicine Residency, Norfolk, VA, residents, 27 attendees, February 9, 2017.

Heroin Adulterated with Clenbuterol, Virginia Department of Health Field Epidemiologist Seminar, 2106, Portsmouth, VA, VDH employees, 251 attendees, May 19, 2016.

Toxicology Practical, Eastern Virginia Medical School, Department of Emergency Medicine, Emergency Medicine Residency, Norfolk, VA, residents, 27 attendees, February 11, 2016.

Cardiovascular Toxins, Eastern Virginia Medical School, Department of Emergency Medicine, Emergency Medicine Residency, Norfolk, VA, residents, 27 attendees, February 11, 2016.

Hydrocarbons, Advanced Hazardous Life Support, Chesapeake, VA, EMS, 32 attendees, January 14, 2016.

Corrosives, Advanced Hazardous Life Support, Chesapeake, VA, EMS, 32 attendees, January 14, 2016.

Organophosphates, Advanced Hazardous Life Support, Chesapeake, VA, EMS, 32 attendees, January 13, 2016.

EMS Street Smarties: New Drugs of Abuse, Virginia EMS Symposium, Norfolk, VA, EMS, 238 attendees, November 14, 2015.

Hydrazine, Advanced Hazardous Life Support, Virginia Beach, VA, physicians, EMS, 12 attendees, May 7, 2015.

Asphyxiants, Advanced Hazardous Life Support, Virginia Beach, VA, physicians, EMS, 12 attendees, May 6, 2015.

What's Up in Smoke? Cannabis, 13th Annual Alumni Update Course Virginia Commonwealth University School of Medicine Development Office, Medical College of Virginia Campus, Richmond, VA, Physicians, 60 attendees, April 18, 2015.

Toxicology Practical Examination, Emergency Medicine Residency Conference, Eastern Virginia Medical School, Norfolk, VA, residents, 25 attendees, February 19, 2015.

Designer Drugs, 12th Annual Alumni Update Course Virginia Commonwealth University School of Medicine Development Office, Medical College of Virginia Campus, Richmond, VA, Physicians, 60 attendees, April 12, 2014.

Adult Education, Advanced Hazardous Life Support, Virginia Beach, VA, EMS, 20 attendees, May 18, 2012

Miscellaneous Toxicants, Advanced Hazardous Life Support, Virginia Beach, VA, EMS, 52 attendees, May 17, 2012.

Pesticides, Advanced Hazardous Life Support, Virginia Beach, VA, EMS, 52 attendees, May 16, 2012.

Down on the Pharm, Sentara Williamsburg Physician CME conference, Williamsburg, VA, physicians and nurses, 36 attendees, July 20, 2011.

Down on the Pharm, Virginia College of Emergency Physicians Winter Conference, Hot Springs, VA, physicians, 40 attendees, February 17, 2011.

Anecdotes and Antidotes, Virginia College of Emergency Physicians Winter Conference, Hot Springs, VA, physicians, 40 attendees, February 17, 2011.

Pediatric Emergency Medicine Toxicology Review, Stafford Hospital EM physician group, 15 attendees, December 10, 2010.

Toxin Induced Dysrhythmias, The Virginia EMS Symposium, Norfolk, VA, EMS, 79 attendees, November 11, 2010.

Toxicology Issues in Adolescents, Pediatrics at the Beach, Virginia Beach, pediatricians, 63 attendees, July 23, 2010.

Toxicology Issues in Adolescents, Pediatrics at the Beach, Virginia Beach, pediatricians, 67 attendees, July 23, 2010.

Toxicology Issues in Small Children, Pediatrics at the Beach, Virginia Beach, pediatricians, 310 attendees, July 23, 2010.

Antidote Review, Eastern Virginia Medical School, Norfolk, VA, emergency medicine residents, 30 attendees, October 15, 2009.

Drugs of Abuse, Eastern Virginia Medical School, Norfolk, VA, emergency medicine residents, 30 attendees, October 15, 2009.

Cyanide-New Treatments, CPPEMT, Suffolk, VA, EMS, 30 attendees, April 25, 2009.

Geriatric Toxicology, Primary Care Conference, Virginia Beach General Hospital, physicians, 10 attendees, January 22, 2009.

Hydrocarbons, Advanced Hazardous Life Support, Virginia Beach, VA, EMS, 55 attendees, November 10, 2008.

Corrosives, Advanced Hazardous Life Support, Virginia Beach, VA, EMS, 55 attendees, November 10, 2008.

Asphyxiants, Advanced Hazardous Life Support, Virginia Beach, VA, EMS, 55 attendees, November 9, 2008.

Irritant Gases, Advanced Hazardous Life Support, Virginia Beach, VA, EMS, 55 attendees, November 9, 2008.

Chemical Induced Illness Conference, Norfolk, VA, EMS, 18 attendees, June 17, 2008.

Chemical Induced Illness Conference, Gloucester, VA, EMS, 12 attendees, May 22, 2008.

Smoke Inhalation, Grand Rounds, Sentara Virginia Beach General Hospital, Virginia Beach, VA, physicians, 40 attendees, April 29, 2008.

Chemical Induced Illness Conference, Henrico County, VA, EMS, 36 attendees, April 22, 2008.

Alphabet Soup, Grand Rounds, Southern Virginia Medical Center, Emporia, VA, physicians, 12 attendees, April 15, 2008.

Alphabet Soup, Grand Rounds, Southside Regional Medical Center, Petersburg, VA, physicians, 10 attendees, December 20, 2007.
12/2007 (in progress)

National

Breathless: Acute Opioid Overdose in the Emergency Department, Safety Pharmacology Society, Annual Meeting 2018, Washington, DC, October 1, 2018.

Thallium toxicity and Methemoglobinemia Case discussions, The Acute Intensive Care Symposium, North American Congress of Clinical Toxicology 2016, Boston, MA, September 15, 2016.

Collaborative investigation of a clenbuterol-adulterated heroin outbreak, Community of Practice Webinar, Center for Disease Control, American Association of Poison Control Centers, Virginia Department of Health, 8 attendees, February 10, 2016.

Flumazenil, American College of Medical Toxicology Journal Club Webinar, 25 attendees, Medical Toxicology Attendings and Fellows, January 12, 2016.

Long Acting Anticoagulants and New Oral Anticoagulants, American Association of Poison Control Centers, Specialist in Poison Information Committee Webinar, 59 attendees, May 20, 2014.

Rhabdomyolysis Journal Club, American College of Medical Toxicology National Journal Club, Webinar, 30 attendees, May 13, 2014.

Variability of limb circumference measurements in simulated patients. North American Congress of Clinical Toxicology Annual Meeting, Platform, Las Vegas, NV, 200 attendees, October 2-6, 2012.

Icatibant for ACE Inhibitor Induced Angioedema, American Academy of Clinical Toxicology, Pre-meeting Symposium, Advanced Antidotes, North American Congress of Clinical Toxicology, Las Vegas, NV, physicians, nurses, PharmDs, 400 attendees, October 2, 2012.

Fever, CPC competition, Society of Academic Emergency Medicine, Chicago, IL, physicians, 20 attendees, May 9, 2012.

Highly Caffeinated Alcohol Drinks: Is There a Proven Risk?, North American Conference of Clinical Toxicology, Washington, DC, physicians, nurses, PharmDs, 150 attendees, September 21, 2011.

Perfusion Salad, Specialist in Poison Information Symposium, North American Congress of Clinical Toxicology, Denver, CO, physicians, nurses, PharmDs, 200 attendees, October 10, 2010.

Headache, CPC competition, Society of Academic Emergency Medicine, Phoenix, AZ, physicians, 20 attendees, June 2, 2010.

Antidotes, New Mexico College of Emergency Physicians, 26th Annual Emergency Medicine Symposium, Albuquerque, NM, physicians, 75 attendees, April 1, 2006.

Pediatric Blood Lead Surveillance in Havana, Cuba, American College of Medical Toxicology 2nd Annual Spring Course, Atlanta, GA, physicians, 20 attendees, April 3-5, 2003.

One Pill Can Kill, New Frontiers in Toxicology, American College of Osteopathic Emergency Medicine, Chicago, IL, physician, 50 attendees, Aug 14-17, 2002.

Toxicology ECG's, New Frontiers in Toxicology, American College of Osteopathic Emergency Medicine, Chicago, IL, physicians, 50 attendees, Aug 14-17, 2002.

Toxicology Case Discussion, New Frontiers in Toxicology, American College of Osteopathic Emergency Medicine, Chicago, IL, physicians, 50 attendees, Aug 14-17, 2002.

Is Hyperkalemia in Acute Digitalis Poisoning of Prognostic Significance in the Post Digoxin Specific Fab Fragment Era? American College of Medical Toxicology 1st Annual Spring Course, Phoenix, AZ, physicians, 20 attendees April 11, 2002.
04/2002 (in progress)

Posters or Other Unsolicited Presentations

Internal/VCU

Virginia Commonwealth University School of Medicine Resident/Fellow Research Day

Prevalence of Hematologic Toxicity from Copperhead Envenomation in Virginia: An Observational Study, 6/2018

Epidemiology of Methemoglobinemia: A National Poison Data System Observational Study, 6/2018

Homicide with Intramuscular Cyanide, 6/2018

Prolonged QT Interval Associated with Overdose on Pyrilamine Containing Products, 6/2017

Adverse Events from Physostigmine: An Observational Study, 6/2016

Bobbing for Mothballs: An algorithm for identifying mothball composition, 6/2016

Dofetilide in Overdose: A Case Series from Poison Center Data, 6/2016

Use of Naloxone in Alpha-2 Agonist Overdoses, 6/2016

Hyperkalemia in the setting of digoxin toxicity had low mortality without use of digoxin specific Fab fragments: a poison center observational study, 6/2016

Pulse Check on Gastric Lavage: Agonal Rhythm, 6/2015
06/2015

National

Wills BK, Willis D, Bullock A, **Cumpston KL**. Severe Hemolytic Anemia Due to Ingesting Naphthalene-containing Moth Repellent Balls. North American Congress of Clinical Toxicology Annual Meeting, Chicago, IL, October 25-29, 2018.

Lauer C, Wills BK, Rose SR, **Cumpston KL**. Parental Poison Prevention Education after

Unintentional Opioid Overdose. North American Congress of Clinical Toxicology Annual Meeting, Chicago, IL, October 25-29, 2018.

Mui P, Love E, Volker S, Rodriguez V, Wills BK, **Cumpston KL**. Impact of healthcare resources on intentional and unintentional toxic exposures in urban and rural communities. North American Congress of Clinical Toxicology Annual Meeting, Chicago, IL, October 25-29, 2018.

Wills BK, **Cumpston KL**, Harris JL, Rose SR. Homicide with intramuscular cyanide. North American Congress of Clinical Toxicology Annual Meeting, Chicago, IL, October 25-29, 2018.

Cumpston KL, Rodriguez V, Nguyen T, Maclasco A, Zin C, Rose SR, Wills BK. Where there is smoke there is not always cyanide: Evaluation of prehospital hydroxocobalamin use. North American Congress of Clinical Toxicology Annual Meeting, Chicago, IL, October 25-29, 2018.

Patel J, Nguyen T, **Cumpston KL**. Emergency Department recidivism in alcohol withdrawal patients after discharge with or without chlordiazepoxide. North American Congress of Clinical Toxicology Annual Meeting, Chicago, IL, October 25-29, 2018.

Wills BK, **Cumpston KL**, Grodman S, Rose SR. Epidemiology of Methemoglobinemia: A National Poison Data System Observational Study. North American Congress of Clinical Toxicology Annual Meeting, Chicago, IL, October 25-29, 2018.

Wills BW, Billet M, Rose SR, **Cumpston KL**, Counselman F, Shaw K, Cresswell K, Charlton N. Prevalence of hematologic toxicity from copperhead envenomation: An Observational Study. North American Congress of Clinical Toxicology Annual Meeting, Chicago, IL, October 25-29, 2018.

Maskell K, Henriques T, **Cumpston KL**. Prolonged QT Interval Associated with Overdose on Pyrilamine Containing Products. Annual Scientific Meeting, American College of Medical Toxicology, Washington DC, April 6-8, 2018.

Sweat K, Wills BK, Rose SR, **Cumpston KL**. Respiratory depression after intentional misuse of tianeptine requiring prolonged naloxone treatment. North American Congress of Clinical Toxicology Annual Meeting, Vancouver, British Columbia, Canada, October 12-15, 2017. *Clinical Toxicology*, 2017;55(7):768.

Nguyen TT, Armengol C, **Cumpston KL**, Wills BK. Adverse Effects from Physostigmine: An Observational Study. North American Congress of Clinical Toxicology Annual Meeting, Boston, MA, September 12-16, 2016.

Hoffman R, Maskell K, **Cumpston KL**. Pulse check on gastric lavage: Agonal rhythm. North American Congress of Clinical Toxicology Annual Meeting, Boston, MA,

September 12-16, 2016.

Maskell K, Hieger M, Moss M, Emswiler M, Wills BK, **Cumpston KL**. Bobbing for Mothballs: An algorithm for identifying mothball composition. North American Congress of Clinical Toxicology Annual Meeting, Boston, MA, September 12-16, 2016.

Maskell K, Powell S, Willis D, **Cumpston KL**, Hieger M, Emswiler M, Wills BK. Distinguishing transaminase elevation in rhabdomyolysis compared to acetaminophen toxicity. North American Congress of Clinical Toxicology Annual Meeting, Boston, MA, September 12-16, 2016.

Carter M, Wills BK, **Cumpston KL**. Clinical effects of kratom use: a poison center observational study. North American Congress of Clinical Toxicology Annual Meeting, Boston, MA, September 12-16, 2016.

Afeld JL, Hieger MA, Emswiler MP, Maskell KF, **Cumpston KL**, Yousef M, Wills BK. Persistent Methemoglobinemia Due to Occult Vulvar Benzocaine Application. North American Congress of Clinical Toxicology Annual Meeting, San Francisco, CA, October 8-12, 2015.

Emswiler MP, Hieger MA, Maskell KF, **Cumpston KL**, Wills BK, Rose SR. Hyperkalemia in the setting of digoxin toxicity had low mortality without use of digoxin specific fab fragments: a poison center observational study. North American Congress of Clinical Toxicology Annual Meeting, San Francisco, CA, October 8-12, 2015.

Maskell KF, Hieger ME, Emswiler MP, **Cumpston KL**, Wills BK. Whole bowel Irrigation: Ten Year Experience at One Poison Center. North American Congress of Clinical Toxicology Annual Meeting, San Francisco, CA, October 8-12, 2015.

Hieger MA, Troendle MM, Maskell KF, Emswiler MP, Hidalgo LF, **Cumpston KL**, Wolf CE, Wills BK. Surreptitious Adulteration of Heroin: A Case Series of Clenbuterol Toxicity. North American Congress of Clinical Toxicology Annual Meeting, San Francisco, CA, October 8-12, 2015.

Wolf CE, Poklis, JL, **Cumpston KL**, Moss, M, Poklis A. Molly Mosquito detection in Two Cases of Designer Ecstasy Use. Society of Forensic Toxicologists, Atlanta, GA, October 19-23, 2015.

Troendle MM, Nguyen TT, **Cumpston KL**, Rose SR, Wills BK. No adverse drug events from flumazenil: an emergency department observational study. North American Congress of Clinical Toxicology Annual Meeting, New Orleans, LA, October 19-21, 2014.

Cumpston KL, Wills BK, Troendle MM, Rose SR. Persistent bilateral carpal tunnel syndrome following severe canebrake rattlesnake envenomation. North American Congress of Clinical Toxicology Annual Meeting, New Orleans, LA, October 19-21, 2014.

Cumpston KL, Wills BK, Troendle MM, Rose SR. Absorption of salicylate powders vs tablets: A poison center observational study. North American Congress of Clinical Toxicology Annual Meeting, New Orleans, LA, October 19-21, 2014.

Troendle MM, **Cumpston KL**, Powell AO, Wills BK, Stromberg PE, Rose SR. Adjunctive use of low dose intralipid associated with hemodynamic improvement in combined amlodipine and labetalol overdose refractory to standard therapy. North American Congress of Clinical Toxicology- Annual Meeting, Atlanta, GA September 27-October 2, 2013.

Stromberg PE, Burt MH, Rose SR, **Cumpston KL**, Troendle MM, Wills BK. Airway compromise in children exposed to single-use laundry detergent pods: confirmation of toxicity in a large case series. North American Congress of Clinical Toxicology- Annual Meeting, Atlanta, GA September 27-October 2, 2013.

Leikin J, Whiteley PM, Wills BK, **Cumpston KL**. Outpatient experience of hip arthroplasty metal ion evaluations. North American Congress of Clinical Toxicology- Annual Meeting, Las Vegas, NV, October 2-6, 2012.

Wilde JM, Rose SR, **Cumpston KL**, Wills BK, Stromberg PE. Self-medication with methoxetamine as an analgesic resulting in significant toxicity. North American Congress of Clinical Toxicology Annual Meeting, Las Vegas, NV, October 2-6, 2012.

Rose SR, **Cumpston KL**, Stromberg PE, Wills BK. Severe Poisoning Following Self-Reported Use of 25-I, a Novel Substituted Amphetamine, North American Congress of Clinical Toxicology Annual Meeting, Las Vegas, NV, October 2-6, 2012.

Cumpston KL, Dodd L, Stromberg PE, Rose SR, Wills BW. P.L.U.R. Molly's Mosquito Caps Identified as Fluoroamphetamine, North American Congress of Clinical Toxicology Annual Meeting, Las Vegas, NV, October 2-6, 2012.

Wills BK, Murphy CM, Reynolds PS, Chu EH, **Cumpston KL**, Stromberg PE, Rose SR. Clinical Outcomes in Newer Anticonvulsant Overdose, North American Congress of Clinical Toxicology Annual Meeting, Las Vegas, NV, October 2-6, 2012

Pettrey J, Rose SR, Wills BK, **Cumpston KL**. Activated Charcoal Does Not Reduce Duration of Phenytoin Toxicity in Hospitalized Patients. Washington DC, September 23-27, 2011..

Karydes HC, Whiteley PM, Wills BK, **Cumpston KL**, Leikin JB. Outpatient Clinical Experience of Symptomatic Patients with Metal-on-Metal Hip Implants. North American Congress of Clinical Toxicology Annual Meeting, Washington DC, September 23-27, 2011.

Cumpston KL, Wolf C, Wills BK, Rose SR. 1,4-Butanediol Toxicity without Gamma-hydroxybutyrate Toxicity. North American Congress of Clinical Toxicology Annual

Meeting, Washington DC, September 23-27, 2011.

Cumpston KL, Wills BK, Rose SR. Haunting Retribution: Envenomation by a Postmortem Agkistrodon Contortrix. North American Congress of Clinical Toxicology Annual Meeting, Washington DC, September 23-27, 2011.

Coleman K, **Cumpston KL**, Rose SR. Cyclohexylamine Induced Subdermal Chemical Burns with Persistent Disability, EAPCCT Annual Meeting, Bordeaux, France, May 11-14, 2010.

Murphy CM, **Cumpston KL**, Walton D, Franzen D. High-fidelity Simulated Toxidromes in Medical Student Education, EAPCCT Annual Meeting, Bordeaux, France, May 11-14, 2010.

Hoyt J, Rose SR, **Cumpston KL**. Fatal Pediatric Exposure to Household Glass Etching Cream. North American Congress of Clinical Toxicology Annual Meeting, San Antonio, TX, September 21-26th, 2009.

Cumpston KL, Rose SR. Outpatient Therapy with Baking Soda for Acute Salicylate Overdose. North American Congress of Clinical Toxicology Annual Meeting, San Antonio, TX, September 21-26th, 2009.

Gentry NL, **Cumpston KL**, Rose SR. Direct Cardiotoxicity from an Acute Pentavalent Arsenic Ingestion. North American Congress of Clinical Toxicology Annual Meeting, San Antonio, TX, September 21-26th, 2009.

Cumpston KL, Rose SR. Titration of Hyperinsulinemia Euglycemia Therapy for the Treatment of Acute Diltiazem Toxicity. North American Congress of Clinical Toxicology Annual Meeting, San Antonio, TX, September 21-26th, 2009.

Camp-Rogers T, **Cumpston KL**, Rose SR. Acute Disseminated Encephalomyelitis and Transverse Myelitis after Intranasal Insufflation of Heroin. North American Congress of Clinical Toxicology Annual Meeting, San Antonio, TX, September 21-26th, 2009.

Murphy CM, Rickard JW, Rose SR, **Cumpston KL**, Whitlow KS. Guanfacine Poisoning and Munchausen's Syndrome by Proxy. EAPCCT Annual Meeting, Seville, Spain, May 2008.

Murphy CM, Akbarnia H, Whitlow KS, **Cumpston KL**, Rose SR, Fatal Occupational Exposure to Nitric Acid. North American Congress of Clinical Toxicology Annual Meeting, New Orleans, LA, October 19-24th, 2007.

Stanford CF, Bush SP, Richardson WH, Olsen D, Bogdan GM, **Cumpston KL**, Dart RC. Recurrent Hematological Abnormalities Following Antivenom (AV) Therapy for Crotaline Snakbite. North American Congress of Clinical Toxicology Annual Meeting, San Francisco, CA, October 4-9, 2006.

Benson BE, Martinez IM, Spyker DA, **Cumpston KL**, Harvey S, Troutman WG. Analysis of Aripiprazole Poisonings in Children. North American Congress of Clinical Toxicology Annual Meeting, San Francisco, CA, October 4-9, 2006.

Cumpston KL, Benson BE. Does Toxicology Knowledge Improve After a Toxicology Rotation? North American Congress of Clinical Toxicology Annual Meeting, San Francisco, CA, October 4-9, 2006.

Bauman M, **Cumpston KL**, Benson BE. Intranasal Clozapine Misuse Mimicking Cocaine Toxicity North American Congress of Clinical Toxicology Annual Meeting, San Francisco, CA, October 4-9, 2006.

Harvey SE, **Cumpston KL**, Benson BE. Serotonin Toxicity From the Combination of Hawaiian Baby Woodrose and Pro-serotonergic Pharmaceuticals. North American Congress of Clinical Toxicology Annual Meeting, San Francisco, CA, October 4-9, 2006.

Cumpston KL, Benson BE. Chronic Inhalant Abuse of Carburetor Cleaning Spray Without Significant Methanol Induced Ocular Toxicity. North American Congress of Clinical Toxicology Annual Meeting, San Francisco, CA, October 4-9, 2006.

Martinez IM, **Cumpston KL**, Brazwell E, Benson BE, Harvey SE, Troutman W. Herbal N-Acetylcysteine as an Antidote for Acetaminophen Toxicity. North American Congress of Clinical Toxicology Annual Meeting, San Francisco, CA, October 4-9, 2006.

Cumpston KL, Jones-Lovato H. Fatal Topiramate Overdose with Anetmortem Cardiac Conduction Abnormality and Seizures. North American Congress of Clinical Toxicology Annual Meeting, Orlando, FL, September 10-14, 2005.

Cumpston KL, Goldstein L, Monge T, Cano D. Hepatic and Pulmonary Veno-occlusive Disease in Siblings Administered ELTHCO Tea. North American Congress of Clinical Toxicology, Orlando, FL, September 10-14, 2005.

Jones Easom LA, Benson BE, **Cumpston KL**. Human Poison Exposure Case Documentation: Does the Written Document Correlate with the Voice Recording? North American Congress of Clinical Toxicology Annual Meeting, Orlando FL, September 10-14, 2005.

Cumpston KL, Lester L, Crandall C. Life Threatening Toxicity in a Cocaine "Stuffer" Greater Than Fourteen Hours From Ingestion North American Congress of Clinical Toxicology Annual Meeting, Orlando, FL, September 10-14, 2005.

Case RW, Delgado-Corcoran C, Wilson L, Benson B, **Cumpston KL**. Aspiration Pneumonitis Due to a Silicone Containing, Hydrocarbon Free, Hair Shine Product in a 9 month old. North American Congress of Clinical Toxicology Annual Meeting, Seattle, WA, September 2004.

Leikin JB, Mycyk MB, Bryant SM, **Cumpston KL**. Characteristics of Patients with No Underlying Toxicologic Syndrome Evaluated in a Toxicology Clinic. Presented at the ICEP Scientific Assembly, Oak Brook, IL, June 5, 2003.

Cumpston KL, Skrupky R, Pallasch E, Wahl M. Hyperglycemia in a Pediatric Carbamazepine Overdose. North American Congress of Clinical Toxicology Annual Meeting, Chicago, IL, September 2003.

Cumpston KL, Chao M, Pallasch E. Massive Venlafaxine Overdose Resulting in Arrhythmogenic Death. North American Congress of Clinical Toxicology Annual Meeting, Chicago, IL, September 2003.

Cumpston KL, Burk M, Burda A, Pallasch E, Bonfante C, Johnson S, Erickson TB, Hryhorczuk DO. Darkness on the Edge of Town: A Rural Family Maliciously Poisoned by Thallium. North American Congress of Clinical Toxicology Annual Meeting, Chicago, IL, September 2003.

Cumpston KL, Bryant SM, Rezak M, Kim A, Leikin JB. Visual Side Effects from Botulism Type B Injections. North American Congress of Clinical Toxicology Annual Meeting, Chicago, IL, September 2003.

61.Cumpston KL, Vogel S, Leikin JB, Erickson T. Acute Airway Compromise Requiring Emergent Tracheostomy Following One Bite of a Dieffenbachia Stem. North American Congress of Clinical Toxicology Annual Meeting, Palm Springs, CA, September 2002

62.Cumpston KL, O' Koren K, Wahl M. The Ecstasy and Misery of a Teenage Myocardial Infarction. North American Congress of Clinical Toxicology Annual Meeting, Palm Springs, CA, September 2002

63.Cumpston KL, Mycyk M, Pallasch E, Manzanares M, Knight J, Aks S, Hryhorczuk DO. Failure of Hyperinsulinemia / Euglycemia Therapy in a Severe Diltiazem Overdose. North American Congress of Clinical Toxicology Annual Meeting, Palm Springs, CA, September 2002

64.Cumpston KL, Manzanares M, Pallasch E, Sigg T, Aks S. Hypotension Complicating Whole Bowel Irrigation in Diltiazem Overdose. North American Congress of Clinical Toxicology Annual Meeting, Palm Springs, CA, September 2002

Bryant SM, **Cumpston KL**, Mycyk, MB, Rezak M, Pallasch E. Facial Nerve Neuritis Secondary to Ultraviolet Radiation. North American Congress of Clinical Toxicology Annual Meeting, Palm Springs, CA, September 2002

Leikin JB, Mycyk MB, Bryant SM, **Cumpston KL**. Characteristics of Patients with No Underlying Toxicologic Syndrome Evaluated in a Toxicology Clinic North American Congress of Clinical Toxicology Annual Meeting, Palm Springs, CA, September 2002.

Cumpston KL, Pendergast H, Sloan E. Cardiac complications resulting from

gastrointestinal bleeding. *Academic Emergency Medicine*, May 2002. Society of Academic Emergency Medicine Annual Meeting, St. Louis, MO., 2002
05/2002 (in progress)

Teaching Experience

Didactic and Clinical

Since 7/2010 I have been a Practice in Clinical Medicine Preceptor at the VCU School of Medicine. I have mentored 16 students for 426 contact hours total.

07/2010 - Present

I performed CME and Nursing Educational (CNU) lectures for a total of 168 contact hours.

Mothball toxicity, Virginia Poison Center, Richmond, VA, nurses, 6 attendees, June 25, 2019.

Plants, Virginia Poison Center, Richmond, VA, nurses, 11 attendees, May 28, 2019.

Crotaline Envenomation, Virginia Poison Center, Richmond, VA, nurses, 7 attendees, April 30, 2019.

Warfarin, Superwarfarin, DOACS, Virginia Poison Center, Richmond, VA, nurses, 10 attendees, March 26, 2019.

Antipsychotics, Virginia Poison Center, Richmond, VA, nurses, 10 attendees, February 21, 2019.

Hypernatremia, Virginia Poison Center, Richmond, VA, nurses, 10 attendees, January 29, 2019.

The Difficult Airway, Department of Emergency Medicine, Virginia Commonwealth University, Richmond, VA, Emergency Medicine residents, 20 attendees, March 6, 2019.

Toxicology Practical, Department of Emergency Medicine, Virginia Commonwealth University, Richmond, VA, Emergency Medicine residents, 20 attendees, February 6, 2019.

Rapid Fire Miscellaneous Tox, Department of Emergency Medicine, Virginia Commonwealth University, Richmond, VA, Emergency Medicine residents, 30 attendees, January 30, 2019.

Toxin Advanced Interventional Life Support, Department Virginia Commonwealth University, Richmond, VA, Emergency Medicine residents, 30 attendees, January 30, 2019.

Terrestrial Envenomations, Department of Emergency Medicine, Virginia Commonwealth University, Richmond, VA, Emergency Medicine residents, 30 attendees, January 23, 2019.

NACCT Toxic Tidbits, Virginia Poison Center, Richmond, VA, nurses, 5 attendees, November 27, 2018.

Bromethalin toxicity, Virginia Poison Center, Richmond, VA, nurses, 5 attendees, November 27, 2018.

Clonidine and Alpha-2 agonists, Virginia Poison Center, Richmond, VA, nurses, 8 attendees, September 25, 2018.

Bupropion, Virginia Poison Center, Richmond, VA, nurses, 10 nurses, August 28, 2018.

Pain and Overdose Prevention Lecture, Department of Emergency Medicine, Virginia Commonwealth University, Richmond, VA, Emergency Medicine Residents, 30 attendees, August 8, 2018.

Brown Recluse Spider Envenomation, Virginia Poison Center, Richmond, VA, nurses, 7 nurses, July 31, 2018.

Methemoglobinemia, Virginia Poison Center, Richmond, VA, nurses, 8 nurses, June 26, 2018.

Critical Actions in Intensive Care: Treatment of Morbidity from Substance Abuse, Society of Critical Care Medicine Carolinas-Virginias Chapter Annual Conference, 80 attendees, June 11, 2018.

Baclofen overdose, Virginia Poison Center, Richmond, VA, nurses, 8 nurses, May 29, 2018.

Carbamazepine Toxicity, Virginia Poison Center, Richmond, VA, nurses, 7 nurses, January 30, 2018.

Ivabradine, Virginia Poison Center, Richmond, VA, nurses, 9 nurses, November 28, 2017.

NACCT 2017 review, Virginia Poison Center, Richmond, VA, nurses, 5 nurses, October 31, 2017.

Overdose in the USA, Grand Rounds, Mary Washington Medical Center, Fredericksburg, VA, physicians, 42 attendees, September 29, 2017.

Drugs of Abuse, Bon Secours CME Night Out, Henrico County, VA, physicians, 90 attendees, September 27, 2017.

Overdose in the USA, Bon Secours CME Night Out, Henrico County, VA, physicians, 90 attendees, September 27, 2017.

Smoke Inhalation, Virginia Poison Center, Richmond, VA, nurses, 5 nurses, September 26, 2017.

Methotrexate/Non-indigenous snakes, Virginia Poison Center, Richmond, VA, nurses, 10 nurses, August 29, 2017.

Fentanyl and Friends, Virginia Poison Center, Richmond, VA, nurses, 9 nurses, July 25, 2017.

Tramadol/Tapentadol toxicity, Virginia Poison Center, Richmond, VA, nurses, 7 nurses, June 27, 2017.

Loperamide toxicity, Virginia Poison Center, Richmond, VA, nurses, 5 nurses, May 30, 2017.

Laundry detergent packs, Virginia Poison Center, Richmond, VA, nurses, 5 nurses, April 25, 2017.

Lithium Overdose, Virginia Poison Center, Richmond, VA, nurses, 10 attendees, March 28, 2017.

Acetaminophen Overdose, Virginia Poison Center, Richmond, VA, nurses, 6 attendees, February 28, 2017.

Sedation for Mechanical Ventilation, Virginia Poison Center, Richmond, VA, nurses, 6 attendees, January 31, 2017.

Diabetic Agents, Virginia Poison Center, Richmond, VA, nurses, 6 attendees, November 29, 2016.

High Anion Gap Metabolic Acidosis, Virginia Poison Center, Richmond, VA, nurses, 7 attendees, October 25, 2016.

NACCT Abstracts 2016, Virginia Poison Center, Richmond, VA, nurses 5, attendees, September 28, 2016.

Thallium toxicity and Methemoglobinemia Case discussions, The Acute Intensive Care Symposium, North American Congress of Clinical Toxicology 2016, Boston, MA, September 15, 2016.

Mushrooms, Virginia Poison Center, Richmond, VA, nurses 6 attendees, August 30,

2016.

Chloroquine/Hydroxychloroquine Toxicity, Virginia Poison Center, Richmond, VA, nurses, 7 attendees, July 26, 2016.

Crotalinae Envenomation in Virginia, Virginia Poison Center, Richmond, VA, nurses, 10 attendees, May 24, 2016.

Clonidine and Alpha-2 agonists, Virginia Poison Center, Richmond, VA, nurses, 6 attendees, April 26, 2016.

Antidysrhythmics, Virginia Poison Center, Richmond, VA, nurses, 6 attendees, January 26, 2016.

Hydrocarbons, Advanced Hazardous Life Support, Chesapeake, VA, EMS, 32 attendees, January 14, 2016.

Corrosives, Advanced Hazardous Life Support, Chesapeake, VA, EMS, 32 attendees, January 14, 2016.

Organophosphates, Advanced Hazardous Life Support, Chesapeake, VA, EMS, 32 attendees, January 13, 2016.

EMS Street Smarties: New Drugs of Abuse, Virginia EMS Symposium, Norfolk, VA, EMS, 238 attendees, November 14, 2015.

NACCT Abstracts 2015, Virginia Poison Center, Richmond, VA, nurses, 10 attendees, October 27, 2015.

Venlafaxine/Desvenlafaxine, Virginia Poison Center, Richmond, VA, nurses, 10 attendees, July 28, 2015

Salt, Virginia Poison Center, Richmond, VA, nurses, 8 attendees, May 26, 2015.

Hydrazine, Advanced Hazardous Life Support, Virginia Beach, VA, physicians, EMS, 12 attendees, May 7, 2015.

Asphyxiants, Advanced Hazardous Life Support, Virginia Beach, VA, physicians, EMS, 12 attendees, May 6, 2015.

GI Decontamination, Virginia Poison Center, Richmond, VA, nurses, 6 attendees, February 27, 2015.

Anticoagulants, Virginia Poison Center, Richmond, VA, nurses, 6 attendees, January 29, 2015.

Review of NACCT Topics, Virginia Poison Center, Richmond, VA, nurses, 6 attendees,

October 23, 2014.

The Unknown Toxin, Virginia Poison Center, Richmond, VA, nurses, 10 attendees, September 30, 2014.

Buprenorphine, Virginia Poison Center, Richmond, VA, nurses, 10 attendees, July 30, 2014.

Bromethalin, Virginia Poison Center, Richmond, VA, nurses, 4 attendees, June 6th, 2014.

Amphetamines and derivatives, Virginia Poison Center, Richmond, VA, nurses, 8 attendees, April 29, 2014.

Designer Drugs, 12th Annual Alumni Update Course Virginia Commonwealth University School of Medicine Development Office, Medical College of Virginia Campus, Richmond, VA, Physicians, 60 attendees, April 12, 2014.

Prolonged QT, Virginia Poison Center, Richmond, VA, nurses, 6 attendees, March 25, 2014.

Ibuprofen, Virginia Poison Center, Richmond, VA, nurses, 10 attendees, February 20, 2014.

Bupropion, Virginia Poison Center, Richmond, VA, nurses, 6 attendees, November 25, 2013.

NACCT Abstracts 2013, Virginia Poison Center, Richmond, VA, nurses, 6 attendees, November 25, 2013.

Nerve Agents, Virginia Poison Center, Richmond, VA, nurses, 6 attendees, September 24, 2013.

Mothballs, Virginia Poison Center, Richmond, VA, nurses, 6 attendees, August 27, 2013.

Plants, Virginia Poison Center, Richmond, VA, nurses, 6 attendees, July 29, 2013.

Plants, Virginia Poison Center, Richmond, VA, nurses, 6 attendees, June 24, 2013.

Colchicine, Virginia Poison Center, Richmond, VA, nurses, 6 attendees, May 30, 2013.

Ricin Exposure, Virginia Poison Center, Richmond, VA, nurses, 6 attendees, April 22, 2013.

Levothyroxine Overdose, Virginia Poison Center, Richmond, VA, nurses, 6 attendees, April 22, 2013.

Fluoride Ingestion, Virginia Poison Center, Richmond, VA, nurses, 5 attendees, February 19, 2013.

Button Battery Ingestion, Virginia Poison Center, Richmond, VA, nurses, 5 attendees, January 30, 2013.

Phenol, Virginia Poison Center, Richmond, VA, nurses, 6 attendees, November 29, 2012.

Review of NACCT 2012 Abstracts, Richmond, VA, nurses, 7 attendees, October 25, 2012.

Icatibant for ACE Inhibitor Induced Angioedema, American Academy of Clinical Toxicology, Pre-meeting Symposium, Advanced Antidotes, North American Congress of Clinical Toxicology, Las Vegas, NV, October 2, 2012.

Variability of limb circumference measurements in simulated patients. North American Congress of Clinical Toxicology Annual Meeting, Platform, Las Vegas, NV, 200 attendees, October 2-6, 2012.

Isopropyl Alcohol and Albuterol, Virginia Poison Center, Richmond, VA, nurses, 6 attendees, September 27, 2012

Ethanol, Virginia Poison Center, Richmond, VA, nurses, 7 attendees, August 27, 2012.

Methylxanthines, Virginia Poison Center, Richmond, VA, nurses, 7 attendees, July 30, 2012.

Botulism, Virginia Poison Center, Richmond, VA, nurses, 7 attendees, June 26, 2012.

The Virginia Poison Center, Crotalid Envenomation, Acetaminophen toxicity, Nursing CME, Memorial Regional Hospital, Mechanicsville, VA, nursing staff, 23 attendees, June 15, 2012.

Clonidine, Virginia Poison Center, Richmond, VA, nurses, 7 attendees, May 29, 2012.

Adult Education, Advanced Hazardous Life Support, Virginia Beach, VA, EMS, 20 attendees, May 18, 2012.

Miscellaneous Toxicants, Advanced Hazardous Life Support, Virginia Beach, VA, EMS, 52 attendees, May 17, 2012.

Pesticides, Advanced Hazardous Life Support, Virginia Beach, VA, EMS, 52 attendees, May 16, 2012.

Isoniazid, Virginia Poison Center, Richmond, VA, nurses, resident and pharmD

students, 7 attendees, March 26, 2012.

Camphor, Virginia Poison Center, Richmond, VA, nurses, resident and pharmD students, 7 attendees, February 23, 2012.

Non-indigenous snake envenomation, Virginia Poison Center, Richmond, VA, nurses, 5 attendees, January 31, 2012.

The Virginia Poison Center, Critical Care Nursing CME, St. Mary's Hospital, Henrico County, VA, critical care, step down and emergency medicine nurses, 50 attendees, January 18, 2012.

Mushrooms, Virginia Poison Center, Richmond, VA, nurses, 5 attendees, October 25, 2011.

NACCT 2010 abstract review, Virginia Poison Center, Richmond, VA, nurses, 5 attendees, September 30, 2011.

Insecticides: Organophosphates/Carbamates, Virginia Poison Center, Richmond, VA, nurses, 5 attendees, September 30, 2011.

Highly Caffeinated Alcohol Drinks: Is There a Proven Risk?, North American Conference of Clinical Toxicology, Washington, DC, physicians, nurses, PharmDs, 150 attendees, September 21, 2011.

Down on the Pharm, Sentara Williamsburg Hospital, Williamsburg, VA, physicians and nurse, 36 attendees, July 20, 2011.

Black widow spider and boric acid, Virginia Poison Center, Richmond, VA, nurses, 5 attendees, June 28, 2011.

Iron Overdose, Virginia Poison Center, Richmond, VA, nurses, 5 attendees. May 26, 2011.

Virginia Crotalinae, Virginia Poison Center, Richmond, VA, nurses, 5 attendees, April 28, 2011.

Radiation, Virginia Poison Center, Richmond, VA, nurses, 5 attendees, March 31, 2011.

Caustics, Virginia Poison Center, Richmond, VA, nurses, 5 attendees, February 24, 2011.

Down on the Pharm, Virginia College of Emergency Physicians, Hot Springs, VA, physicians, 40 attendees, February 17, 2011.

Anecdotes and Antidotes, Virginia College of Emergency Physicians, Hot Springs, VA, physicians, 40 attendees, February 17, 2011.

Hypoglycemia Agents, Virginia Poison Center, Richmond, VA, nurses, 5 attendees, January 27, 2011.

Pediatric Emergency Medicine Toxicology Review, Stafford Hospital EM physician group, 15 attendees, December 10, 2010.

Arsenic, Virginia Poison Center, Richmond, VA, nurses, 5 attendees, November, 30, 2010.

NACCT 2010 review, Virginia Poison Center, Richmond, VA, nurses, 5 attendees, October 28, 2010.

Mercury, Virginia Poison Center, Richmond, VA, nurses, 5 attendees, September 30, 2010.

Lead, Virginia Poison Center, Richmond, VA, nurses, 5 attendees, August 27, 2010.

Stuffers and Packers, Virginia Poison Center, Richmond, VA, nurses, 5 attendees, July 29, 2010.

Atypical Antipsychotics, Virginia Poison Center, Richmond, VA, nurses, 5 attendees, May 24, 2010.

SSRIs, serotonin, Virginia Poison Center, Richmond, VA, nurses, 5 attendees, April 29, 2010.

Digoxin, Virginia Poison Center, Richmond, VA, nurses, 5 attendees, March 8, 2010.

Anticoagulants, Virginia Poison Center, Richmond, VA, nurses, 5 attendees, February 18, 2010.

Carbon Monoxide, Virginia Poison Center, Richmond, VA, nurses, 5 attendees, January 26, 2010.

Valproic Acid, Virginia Poison Center, Richmond, VA, nurses, 5 attendees, November 16, 2009.

Toxin Induced Dysrhythmias, The Virginia EMS Symposium, Norfolk, VA, EMS, 79 attendees, November 11, 2010.

NACCT 2009 Review, Virginia Poison Center, Richmond, VA, nurses, 5 attendees, October 27, 2009.

Perfusion Salad, North American Congress of Clinical Toxicology, Denver, CO, physicians, 200 attendees, October 10, 2010.

Ethylene glycol, Virginia Poison Center, Richmond, VA, nurses, 5 attendees, September 15, 2009.

Toxicology Issues in Adolescents, Pediatrics at the Beach, Virginia Beach, pediatricians, 63 attendees, July 23, 2010.

Toxicology Issues in Adolescents, Pediatrics at the Beach, Virginia Beach, pediatricians, 67 attendees, July 23, 2010.

Toxicology Issues in Small Children, Pediatrics at the Beach, Virginia Beach, pediatricians, 310 attendees, July 23, 2010.

Opioids, Virginia Poison Center, Richmond, VA, nurses, 5 attendees, June 29, 2009.

Headache, CPC competition, Society of Academic Emergency Medicine, Phoenix, AZ, physicians, 20 attendees, June 2, 2010.

Insecticides, Virginia Poison Center, Richmond, VA, nurses, 5 attendees, May 21, 2009.

The Tell Tale Heart, Virginia Poison Center, Richmond, VA, nurses, 5 attendees, April 27, 2009.

Ethylene Glycol, Virginia Poison Center, Richmond, VA, nurses, 5 attendees March 30, 2009.

Tricyclic Antidepressants, Virginia Poison Center, Richmond, VA, nurses, 5 attendees, February 27, 2009.

Geriatric Toxicology, Virginia Poison Center, Richmond, VA, nurses, 5 attendees, January 26, 2009.

Geriatric Toxicology, Primary Care Conference, Virginia Beach General Hospital, physicians, 10 attendees, January 22, 2009.

Aspirin, Virginia Poison Center, Richmond, VA, nurses, 5 attendees, November 24, 2008.

Hydrocarbons, Advanced Hazardous Life Support, Virginia Beach, VA, EMS, 55 attendees, November 10, 2008.

Corrosives, Advanced Hazardous Life Support, Virginia Beach, VA, EMS, 55 attendees, November 10, 2008.

Asphyxiants, Advanced Hazardous Life Support, Virginia Beach, VA, EMS, 55 attendees, November 9, 2008.

Irritant Gases, Advanced Hazardous Life Support, Virginia Beach, VA, EMS, 55 attendees, November 9, 2008.

Toxic Alcohols, Virginia Poison Center, Richmond, VA, nurses, 5 attendees, October 20, 2008.

Anticonvulsants, Virginia Poison Center, Richmond, VA, nurses, 5 attendees, September 23, 2008.

Cardiovascular Toxins, Virginia Poison Center, Richmond, VA, nurses, 5 attendees, August 11, 2008.

Cardiovascular Toxins, Virginia Poison Center, Richmond, VA, nurses, 5 attendees, June 23, 2008.

Chemical Induced Illness Conference, Norfolk, VA, EMS, 18 attendees, June 17, 2008.

Chemical Induced Illness Conference, Gloucester, VA, EMS, 12 attendees, May 22, 2008.

Crotalinae Envenomation, Virginia Poison Center, Richmond, VA, nurses, 5 attendees, May 19, 2008.

Smoke Inhalation, Grand Rounds, Sentara Virginia Beach General Hospital, Virginia Beach, VA, physicians, 40 attendees, April 29, 2008.

Chemical Induced Illness Conference, Henrico County, VA, EMS, 36 attendees, April 22, 2008.

Alphabet Soup, Grand Rounds, Southern Virginia Medical Center, Emporia, VA, physicians, 12 attendees, April 15, 2008.

Antipsychotics, Virginia Poison Center, Richmond, VA, nurses, 5 attendees, March 17, 2008.

Smoke Inhalation, Virginia Poison Center, Richmond, VA, nurses, 5 attendees, February 28, 2008.

Alphabet Soup 2, Virginia Poison Center, Richmond, VA, nurses, 5 attendees, January 28, 2008.

Alphabet Soup, Grand Rounds, Southside Regional Medical Center, Petersburg, VA, physicians, 10 attendees, December 20, 2007.

Alphabet Soup 1, Virginia Poison Center, Richmond, VA, nurses, 5 attendees, November 27, 2007.

Acetaminophen, Virginia Poison Center, Richmond, VA, nurses, 5 attendees, October 27, 2007.

Antidotes, New Mexico College of Emergency Physicians, 26th Annual Emergency Medicine Symposium, Albuquerque, NM, physicians, 75 attendees, April 1, 2006.

One Pill Can Kill, New Frontiers in Toxicology, American College of Osteopathic Emergency Medicine, Chicago, IL, physician, 50 attendees, Aug 14-17, 2002.

Toxicology ECG's, New Frontiers in Toxicology, American College of Osteopathic Emergency Medicine, Chicago, IL, physicians, 50 attendees, Aug 14-17, 2002

Toxicology Case Discussion, New Frontiers in Toxicology, American College of Osteopathic Emergency Medicine, Chicago, IL, physicians, 50 attendees, Aug 14-17, 2002.

08/2002 - Present

VIRGINIA COMMONWEALTH UNIVERSITY – SIMULATION

Over this time period I had 95 contact hours with students, residents or fellows.

School of Medicine

Preceptor, Orientation Ward Simulation, Virginia Commonwealth University School of Medicine, Richmond, VA, four M3 students, April 10, 2019.

Preceptor, Asthma exacerbation, M1 Critical Care Interest Group, Virginia Commonwealth University, School of Medicine, Richmond, VA, M1 students, 12 attendees, December 2, 2015.

Preceptor, Clonidine overdose, M1 Critical Care Interest Group, Virginia Commonwealth University, School of Medicine, Richmond, VA, M1 students, 12 attendees, December 2, 2015.

M1 Pharmacology Course Simulations, MEDI 113, October 18, 2013 – present.
Simulation Preceptor and Debriefing

Jimson Weed, Organophosphate, Pheochromocytoma, Tyramine reaction, mushroom toxicity, anaphylaxis simulations

Creator and Director of Wilderness Medicine Toxidrome Simulations, Wilderness Medicine M2 elective, Department of Emergency Medicine, Virginia Commonwealth University, School of Medicine, Richmond, VA, October 20, 2011 – present.

Cardiac glycoside, Jimson weed, Gyromitra mushroom

Creator and Director, Simulation Toxidromes, Department of Emergency Medicine, Virginia Commonwealth University, School of Medicine, Richmond, VA, August 2008 - present.

Sympathomimetic, Anticholinergic, Cholinergic, Opioid, Beta blocker/calcium channel blocker/digoxin, Ethanol withdrawal, Opioid/Hypoglycemia Toxidromes

M4 and Physician Assistant Emergency Medicine Rotation Toxidrome Cases, August 2008 – 2013

M2 Pharmacology Course Simulations, August 3, 2010 – August 2013

Co-Author, Pharmacology Simulation Modules, Pharmacology Course, M2 Curriculum, Virginia Commonwealth University, School of Medicine, Richmond, VA.

Simulation Preceptor and Debriefing

Jimson Weed, Organophosphate, Pheochromocytoma, Tyramine reaction, mushroom toxicity, anaphylaxis simulations

M4 Update Week Course, May 2009 -2010

Opioid, hypoglycemia, ethanol withdrawal, organophosphate, anticholinergic toxidromes

M3 Workshop Week Course, 2009-2010.

Anticholinergic, cholinergic, opioid, beta blocker/CCB toxidromes

Department of Emergency Medicine Simulations (Emergency Medicine Residency, Pediatric Emergency Medicine Fellowship) (26)

07/2009 - Present

OTHER TEACHING

Total of 600 total contact hours from start to present.

Preceptor, Cadaver Procedure Lab, Chest tube insertion, Emergency Medicine residents, Department of Emergency Medicine, Virginia Commonwealth University, Richmond, VA, emergency medicine interns, 10 attendees, May 29, 2019.

Preceptor, Oral Board – Ectopic pregnancy, PGY-1 Clinical Skills Assessment, Department of Emergency Medicine, Virginia Commonwealth University, Richmond, VA, Emergency Medicine Interns, 9 attendees, May 1, 2019.

The illicit fentanyl threat to healthcare providers, Emergency Preparedness Meeting, Virginia Commonwealth University, Richmond, VA, multiple hospital professionals, 30 attendees, March 3, 2019.

Preceptor, Ethylene glycol oral board examination, Emergency Medicine residents, Department of Emergency Medicine, Virginia Commonwealth University, Richmond, VA, emergency medicine residents and medical students, 30 attendees, January 30, 2019.

Preceptor, Cadaver Procedure Lab, subclavian central line, orotracheal intubation, lateral canthotomy, cricothyroidotomy, Emergency Medicine residents, Department of Emergency Medicine, Virginia Commonwealth University, Richmond, VA, emergency

medicine interns, 6 attendees, May 30, 2018.

Preceptor, Sepsis – Intern small group discussion, Department of Emergency Medicine, Virginia Commonwealth University, Richmond, VA, Emergency Medicine residents, 15 attendees, May 16, 2018.

Preceptor, Oral Board Triple – Anterior wall STEMI, scapholunate dislocation, epiglottitis, PGY-3 Clinical Skills Assessment, Department of Emergency Medicine, Virginia Commonwealth University, Richmond, VA, Emergency Medicine Third year residents, 10 attendees, May 9, 2018.

Preceptor, Oral Board – Ectopic pregnancy, PGY-1 Clinical Skills Assessment, Department of Emergency Medicine, Virginia Commonwealth University, Richmond, VA, Emergency Medicine Interns, 10 attendees, April 11, 2018.

Preceptor, Toxicology Practical debrief, Department of Emergency Medicine, Virginia Commonwealth University, Richmond, VA, 10 attendees, September 13, 2017.

Preceptor, Altered Mental Status – Intern small group discussion, Department of Emergency Medicine, Virginia Commonwealth University, Richmond, VA, Emergency Medicine residents, 12 attendees, July 5, 2017.

Preceptor, Cadaver Procedure Lab, subclavian central line, orotracheal intubation, lateral canthotomy, cricothyroidotomy, Emergency Medicine residents, Department of Emergency Medicine, Virginia Commonwealth University, Richmond, VA, emergency medicine residents, 10 attendees, June 7, 2017.

Preceptor, Cadaver Procedure Lab, subclavian central line, orotracheal intubation, lateral canthotomy, cricothyroidotomy, Emergency Medicine residents, Department of Emergency Medicine, Virginia Commonwealth University, Richmond, VA, emergency medicine residents, 10 attendees, May 31, 2017.

Preceptor, Cardiac arrest (PEA, V-fib), Handoffs, Emergency Medicine 1st year residents, Clinical Skills Evaluation, Department of Emergency Medicine, Virginia Commonwealth University, Richmond, VA, emergency medicine residents, 12 attendees, May 24, 2017.

Moderator, Post Simulated Cardiac Arrest Debrief on Leadership, Department of Emergency Medicine, Virginia Commonwealth University, Richmond, VA, emergency medicine residents, 5 attendees, March 1, 2017.

Moderator, Is the pelvic exam necessary in first trimester vaginal bleeding patient? Emergency Medicine Journal Club, Virginia Commonwealth University, Richmond, VA, emergency medicine residents and faculty, 20 attendees, November 16, 2016.

Invited Guest, Expert in Medical Toxicology, Acetaminophen case, Pediatric Morning Report, Virginia Commonwealth University, School of Medicine, Richmond, VA, Pediatric

residents, faculty and interviewees, 40 attendees, October 14, 2016.

Moderator, HINTS Examination to detect stroke, Emergency Medicine Journal Club, Virginia Commonwealth University, Richmond, VA, emergency medicine residents and faculty, 30 attendees, November 18, 2015.

Mock Oral Board Examiner, Emergency Medicine Residents, Virginia Commonwealth University, Richmond, VA, Third and second year EM residents, 9 attendees, July 24, 2015.

Moderator, D-dimer and detection of aortic dissection, Emergency Medicine Journal Club, Virginia Commonwealth University, Richmond, VA, emergency medicine residents and faculty, 30 attendees, December 17, 2014

Faculty, Emergency Medicine Procedure lab with a porcine animal model, Virginia Commonwealth University, Richmond, VA, 1 - 5 /2014

Invited guest, Iron overdose, Expert in Medical Toxicology, Pediatric Morning Report, Virginia Commonwealth University, Richmond, VA, pediatric residents and attendings, 40 attendees, December 7, 2012.

Director, Emergency Medicine Procedure lab with a porcine animal model, Virginia Commonwealth University, Richmond, VA, May 23, 2012 – October 30, 2013.

Invited guest, Elemental Mercury Injection Case, Pediatric Morning Report, Virginia Commonwealth University, Richmond, VA, pediatric residents and attendings, 40 attendees, February 24, 2012.

Lecturer, Introduction to Medical Toxicology lecture, Pharmacology Course, M2 Curriculum (200 M2s), 1 contact hour, Virginia Commonwealth University, School of Medicine, Richmond, VA, 2009 - present.

Clerkship Director, for M2 elective in Medical Toxicology, 160 contact hours Virginia Commonwealth University, School of Medicine, Richmond, VA, 2009 - present.

Creator and Director of Toxicology in Literature Course, 2 contact hours, Virginia Commonwealth University, School of Medicine, Richmond, VA, 2008 - present.

Lecturer, Chemical Exposures and Radiological Exposures lectures for Acute and Occult Chemical Exposures, 3 lectures statewide, for Federal CDC Grant, 2008.

Clerkship Director, M4 Medical Student Toxicology Elective Rotation, MEDI 42016. Virginia Commonwealth University, School of Medicine, Richmond, VA, October 2008-present.

Director House staff Elective Rotation in Medical Toxicology, Emergency medicine, internal medicine and pediatric interns/residents, medical toxicology rotation, Virginia

Commonwealth University, School of Medicine, Richmond, VA, July 2007 - present.

Lecturer, Chemical Weapons and History of Chemical Weapons, School of Public Health Course on Weapons of Mass Destruction, Virginia Commonwealth University, Richmond, VA, July 2007 - July 2008.

Creator and Clerkship Director of the Emergency Medicine Toxicology Longitudinal Track, Virginia Commonwealth University, School of Medicine, Richmond, VA, May 2006 - 2016.

Preceptor, PharmD Student Clinical Toxicology Rotation, Virginia Commonwealth University, School of Pharmacy, October 2006 – present.

Preceptor, PharmD Resident Clinical Toxicology Rotation, Virginia Commonwealth University, School of Pharmacy, October 2006 – present.

Faculty, PharmD Fellowship in Clinical Toxicology, University of New Mexico Health Sciences Center, School of Pharmacy, Albuquerque, NM, 2005-2006.

Lecturer, EM 57133: Wilderness Medicine, Phase III Elective – UNM School of Medicine, University of New Mexico Health Sciences Center, Albuquerque, NM, medical students, 90 attendees 2004-2006

Clerkship Director, Emergency medicine, Internal Medicine, Pediatrics, Critical care fellows medical toxicology rotation, University of New Mexico Health Sciences Center, Albuquerque, NM, 2003-2006.

Clerkship Director, M4 students rotation in medical toxicology, University of New Mexico Health Sciences Center, School of Medicine, Albuquerque, NM, 2003-2006.

Faculty, Pharm 770: Poison Info Clerkship, University of New Mexico Health Sciences Center, College of Pharmacy, Albuquerque, NM, 2003-2006.

Lecturer, Pharm 782: Clinical Toxicology Course, University of New Mexico Health Sciences Center, College of Pharmacy, Albuquerque, NM, PharmD Students, 105, attendees, 2003-2006.

Creator, Toxicology practical lab, 2003 – present.
07/2003 - Present

Clinical Practice of Emergency Medicine bedside contact hours with 1 resident, 1 intern and 1 medical student for two shifts weekly for 13 years is a total of 1000 hours.
10/2006 - Present

Service Activities

Clinical Service

Outpatient Activities

Director of the Toxicology/Environmental/Occupational Clinic, Virginia Commonwealth University Medical Center, Richmond, VA, October 2008 - present.
10/2008 - Present

Medical Director, Virginia Poison Center, Richmond, VA, July 1, 2007 – present.
07/2007 - Present

Department of Emergency Medicine

Critical Care Emergency Medical Transport Program, October 2016 – present.

Member, Search Committee, September 2013 – present.

Emergency Department Clinical Practice Group Task Force, February 2012.

Emergency Medicine Pain Committee, April 2011- present.
Chair – 2012
Chronic Pain Guideline, October 2013.

Co-Chair of the Emergency Medicine Pharmaceutical And Therapeutics Committee,
October 22, 2008 - present.

Co – Developer, Toxicology Stewardship Program (fomepizole, digoxin-fab fragments, crotalidae polyvalent Fab antivenom, Black-widow spider antivenom), Virginia Commonwealth University Medical Center, Richmond, VA, January 25, 2017.

Co-Author, Emergency Department Ethanol Withdrawal Treatment Guideline,
Department of Emergency Medicine, Virginia Commonwealth University, Richmond, VA,
October 2015.

Co-Author, Acetaminophen Overdose Cerner Careset, Department of Emergency
Medicine, Virginia Commonwealth University, Richmond, VA, July 2015.

Co-Author, Droperidol Use in the Emergency Department, Department of Emergency
Medicine, Virginia Commonwealth University, March 2013.

Member, Professional Practice Committee, Emergency Department, Virginia
Commonwealth University Medical Center, October 2007 - 2012.
10/2006 - Present

Toxicology Consultant, Virginia Commonwealth University Medical Center, Richmond,
VA, October 2006 – present
10/2006 - Present

Assistant Medical Director, Virginia Poison Center, Richmond, VA, October 2006 - June
2007.
10/2006 - 06/2007

Inpatient Activities

Toxicology Consultant, Virginia Commonwealth University Medical Center, Richmond, VA, October 2006 – present.
10/2006 - Present

Miscellaneous Activities

Virginia Commonwealth University Medical Center, Richmond, VA

Member, Burn Best Practices Committee, March 15, 2018 – present.

Situational Awareness Report, Opioid Analog Risk Exposure Call, March 3, 2018.

Member, Inpatient Pain Committee, February 6, 2018 – present.

Member, Committee for the treatment of child sex trafficking victims, Children's Hospital of Richmond, Virginia Commonwealth University Medical Center, December 2017 - present.

Member, Clinical Practice Committee, September 19, 2017 – present.
Chaperone Policy Workgroup, May 15, 2018.

Member, Carfentanil Exposure Focus Group, August 8, 2017.

Creator, Inpatient opioid overdose management guideline, January 17, 2017.

Member, Outpatient Opioid Management Group, January 24, 2017.

Member, Alcohol Withdrawal/Substance Abuse Steering Committee, July 2014 - 2017.

Co-Chair, Hospital Pain Committee, March 19, 2014 – December 2016.
Co-author, Virginia Commonwealth University Medical Center Medical College of Virginia Hospitals and Physicians Management Guidelines for Patient Maintained on Buprenorphine / naloxone (Suboxone®) Scheduled for Surgery or other Invasive Procedures, Virginia Commonwealth University, Richmond, VA May 2014.

PCA Pump opioid guidelines for the Emergency Department and Clinical Decision Unit, Virginia Commonwealth University, Richmond, VA, June 2014.

Invited guest, Pain Management Roundtable, November 5, 2013.

Invited guest, Morning Safety Call, Poison Center Awareness Week, March 20, 2013.

Member, Pharmacy Work Group to Examine Inappropriate use of opioids in the ED, March 19, 2013.

Member, Opiate Use in the Ambulatory Setting Committee, December 2012.

Member, Hospital Pain Committee, October, 2011 – 2017.

Chairman, Ambulatory Care Pain Committee, October, 2011 – March 2015.
Co-author, Virginia Commonwealth University Medical Center, Richmond, VA, Drug
screen tables, June 2014.

Member, Hospital Disaster Committee, March 30, 2009 - present.

Member, Emergency Preparedness Committee, March 30, 2009 - present.

Member, Pharmaceutical and Therapeutics Committee, October 22, 2008 - present.

Invited member, The Institute of Safe Medical Practices evaluation of the VCU
pharmacy meeting, Virginia Commonwealth University Medical Center, Richmond, VA,
May 8, 2019.

Reviewer, Fixed dose K Centra Proposal, Virginia Commonwealth University Medical
Center, Richmond, VA, April 18, 2019.

Medication Management Tracer for the mock TJC survey, Virginia Commonwealth
University Medical Center, Richmond, VA, February 28, 2018.

Intravenous Acetaminophen Use Committee, July 22, 2015.

Anti-neoplastics for Non Cancer Use Committee, November 2014.

Member, Burn Advisory Committee October, 2007 - present.

Member, Medication Safety Committee, October, 2007 - present.
10/2007 - Present

Service to the Profession

AMERICAN ACADEMY OF CLINICAL TOXICOLOGY (AACT) 2001 - present

President – Elect, October 26, 2018 – October 2020.

Executive Committee

Strategic Planning Committee

Finance Committee

Board of Trustees, October 2014 – 2017, Re-elected 2017 - 2020.

CME Provider Re-accreditation: December 2018 – November 2019

Moderator, Lightning Oral Abstracts Platform Session III, North American Congress of
Clinical Toxicology, Chicago, IL, October 29, 2018.

Chair, NACCT Planning Committee, North American Congress of Clinical Toxicology, October 28, 2018 – present.

Liaison to the Accreditation Council of Continuing Medical Education (ACCME) for the American Academy of Clinical Toxicology (NACCT), October 2012 – November 2019.

Co-Chair, Health Care Professional Continuing Medical Education Committee NACCT, October 2012 – November 2019.

Director of Physician Continuing Medical Education, October 2012 – November 2019.
Webinars (44)

North American Congress of Clinical Toxicology: 2013-2019

Annual Scientific Meeting of the European Association of Poison Control Centres and Clinical Toxicologists: 2013-2016

Member, Scientific Liaison Coalition (Partnership of scientific societies with the goal of improving public health through a collaborative interdisciplinary approach), Reston, VA, American Academy of Clinical Toxicology representative, November 17, 2017 – present.

Research Awards Committee, 2016 – present

Student and Trainee NACCT Travel Award

Junior Investigator Research Award

Research Award

Knowledge Translation Award

Discussant, Thallium toxicity and Methemoglobinemia case discussion, The Acute Intensive Care Symposium, North American Congress of Clinical Toxicology 2016, Boston, MA, September 15, 2016.

North American Congress of Clinical Toxicology Abstract Judge, 2014.

Moderator, American Academy of Clinical Toxicology, Pre-meeting Symposium, Advanced Antidotes, North American Congress of Clinical Toxicology, Las Vegas, NV, October 2, 2012.

Abstract reviewer, North American Congress of Clinical Toxicology, American Academy of Clinical Toxicology, March 2008 - present.

Instructor, Advanced Hazardous Life Support, September 2006 - present.

Course Director, Advanced Hazardous Life Support, Virginia Beach, VA, May 16-18, 2012.

07/2001 - Present

AMERICAN COLLEGE OF MEDICAL TOXICOLOGY (ACMT) 2002 - present

Reviewer, American College of Medical Toxicology, Medical Toxicology Foundation, Innovative Teaching Awards, March 2015 – present.

Member, American College of Medical Toxicology, Research Committee, October 2014 – present.

Member, Practice Improvement and Education Work Group, American College of Medical Toxicology, Practice Committee September 21, 2018 - present.

Reviewer, Toxicology Investigators Consortium (Toxic), American College of Medical Toxicology, Research Proposals, December 2014 – present.

Expert, Ask a Toxicologist, American College of Medical Toxicology, June 2014 - 2015.
Co-Organizer, American College of Medical Toxicology, Scientific Symposium, North American Conference of Clinical Toxicology, Las Vegas, NV, October 2012.

Moderator, American College of Medical Toxicology, Scientific Symposium, North American Conference of Clinical Toxicology, North American Congress of Clinical Toxicology Las Vegas, NV, October 2012.

Member, American College of Medical Toxicology, Education Committee, September, 2011 - 2017.

Member, American College of Medical Toxicology, P & T Committee, July 1, 2011 – present.

Member, American College of Medical Toxicology, Practice Committee October 10, 2010 - present.
07/2003 - Present

AMERICAN ASSOCIATION OF POISON CONTROL CENTERS (AAPCC) July 2003 - present

AAPCC Accreditation Committee, March 2014 – October 2018.

AAPCC Media Interview Roster, January 24, 2017 – present.

AAPCC Council of Medical Directors, 2003 - present.
07/2003 - Present

VIRGINIA ASSOCIATION OF EMERGENCY PHYSICIANS (VACEP) 2006 - present

Board of Directors – Virginia College of Emergency Physicians, February 12, 2017 – present.

Member, VACEP, Advocacy SWAT Team, January 2016 – present.
10/2006 - Present

Service to the Community

Advisor, The use of suboxone for opioid withdrawal in the emergency department, Fredericksburg Emergency Medical Alliance, November 13, 2018.

Expert Panelist, Pediatric Pain Prescribing: Management of pediatric pain in the area of an opioid crisis, Children's Hospital of Richmond, Virginia Commonwealth University, Richmond, VA, February 21, 2018.

Expert, Voting Statements group, of the systematic review on the assessment and management of drug induced QT prolongation and associated dysrhythmias, March 1, 2017 – present.

Invited Guest, Panel on Kratom, McShin Foundation, Recovery Summit, Richmond, VA, February 25, 2017.

Member, Alumni Share Knowledge (ASK) Program, Des Moines University, School of Osteopathic Medicine, Des Moines, IA, September 6, 2016 – present.

Reviewer, Salicylate Toxicity Electronic Course, McGill School of Continuing Studies, Montreal, Quebec, Canada, June 2, 2016.

Medical Toxicology Consultant, Reviewed the Hazmat Protocols for Tidewater Emergency Medical Services, Chesapeake, VA, February 2, 2016.

Member, Virginia Hospital and Healthcare Association, Opioid Abuse Task Force, January 27, 2016.

Management of Prescription Opioids in the Emergency Departments of the HCA and Bon Secours, Richmond Metro Area , Richmond, VA, June 2015.

Expert testimony, HB 1112, Synthetic Cannabinoid Analogs, Virginia House of Delegates, Representative T. Scott, Garrett, MD, January 31, 2014.

Invited Lecturer, Designer Drugs, Virginia Commonwealth University Community Education at Lewis-Ginter Botanical Center, Richmond, VA, 50 attendees, July 18, 2013.

Medical Toxicology Consultant, Black Mamba protocol, Metro Richmond Zoo, Chesterfield VA, March 19, 2013.

Speaker, Regional Drug Free Alliance, Richmond, VA, June 29, 2012.

Medical Toxicology Consultant, Virginia Aquarium & Marine Science Center, Virginia Beach, VA, May 2012 – present.

Consultant, Virginia Department of Social Services, Richmond, VA, February 2008 – May 2012.

Chairman, Medical Professionals Committee, Prescription Drug Abuse Summit, Substance Abuse Free Environment (SAFE), Chesterfield County, VA, January 2012 – October 2012.

Member, Substance Abuse Free Environment (SAFE), Chesterfield County, VA, October 2011 - present.

Reviewer, Chesterfield EMS Hazmat/Tox Protocols, Chesterfield County, VA July 2010.

Lecturer, Medical Toxicology Inservice Examination Review, Emergency Medicine Residency, Eastern Virginia Medical School, Norfolk, VA, 2009 – present.

Member, Poison Control Center Collaborative Communications, Advisory Committee, Utah Poison Center, University of Utah, October 2007 - 2011.

Alumni Ambassador, Des Moines University, College of Osteopathic Medicine, 2003 – present.

Consultant, Great Lakes Center of Excellence for Environmental Health, Cook County Hospital, Chicago, IL, July 2001-June 2003.

Volunteer Work

Virginia High School League Swimming, Strokes and Turns Official, December 2018 – present.

University of Minnesota, Maroon and Gold Club, August 2018.

USA Swimming Strokes and Turns Official, May 31, 2014 - present.

Meet Referee, Collington Barracudas Swim team, May 2018 – present.

Birkdale-Collington Barracudas Swim Club, volunteer, Chesterfield, VA, May 2013 – present.

Medical consultant, CARITAS at Brandermill Church, Midlothian, VA, March 2010.
07/2001 - Present

Service to the University

Graduate Medical Education

Member, organizing committee for Pediatric Opioid Seminar, January 31, 2018.

Debriefing, Walk the Walk and Lead the Walk Program, Graduate Medical Education, Virginia Commonwealth University Medical Center, Richmond, VA, June 24, 2014.

Facilitator, Walk the Walk and Lead the Walk Program, Graduate Medical Education, Virginia Commonwealth University Medical Center, Richmond, VA, June 21, 2012.

Clerkship Director, Housestaff Medical Toxicology Elective Rotation, Virginia Commonwealth University, School of Medicine, Richmond, VA, October 2008 – present.
10/2008 - Present

Virginia Commonwealth University Faculty Senate, August 2018 – August 2021.

Virginia Commonwealth University Faculty Senate, VCU Health Systems Relations Committee, September 4, 2018 – present.

Advisor for four undergraduate or graduate students, 2012 – present.

Medical Toxicology Advisor and lecturer, Just Say Know Program, Wellness Resource

Center, Division of Student Affairs and Enrollment Services, November 4, 2011 – 2012.

Lecturer, Chemical Weapons and History of Chemical Weapons, School of Public Health Course on Weapons of Mass Destruction, Virginia Commonwealth University, Richmond, VA, July 2007 - July 2008.
07/2007 - Present

School of Pharmacy

Preceptor, PharmD Student Clinical Toxicology Rotation Virginia Poison Center, Virginia Commonwealth University, School of Pharmacy, October 2006 – present.

Preceptor, PharmD Resident Clinical Toxicology Rotation, Virginia Poison Center, Virginia Commonwealth University, School of Pharmacy, October 2006 – present.
10/2006 - Present

Department of Emergency Medicine

Medical Toxicology Fellowship

Clinical Competency Committee, Medical Toxicology Fellowship, July 1, 2014 - present.

Core Faculty, Medical Toxicology Fellowship, July 1, 2011 – present.

Associate Fellowship Director, Medical Toxicology Fellowship, July 1, 2011 - present.

Emergency Medicine Residency

Member, Scholarship Subcommittee for Emergency Medicine Residency Program, February 21, 2018 – present.

Faculty Development, Strengths, Weakness, Opportunities and Threats (SWOT) Evaluation, July 26, 2017 – August 29, 2018.

Residency Expansion Committee, Emergency Medicine Residency, May 2016 – July 2016.

Interviewer, Emergency Medicine Residency candidates, October 2104 – 2015.

Emergency Medicine Residency Program Evaluation Committee, October 2013 - present.

Core Ultrasound Faculty, January 21, 2014 - present
Journal Club – Moderator 2014-2016.

Clinical Competency Committee, July 2013 – present.

Associate Program Director - Competency, March 2012 – June 30, 2013.

Member, Education Committee, Emergency Department, Virginia Commonwealth University Medical Center, July 2007 – present.

Core Faculty, Department of Emergency Medicine, July 2007 – present.

Creator and Clerkship Director of the Emergency Medicine Toxicology Longitudinal Track, Virginia Commonwealth University, School of Medicine, Richmond, VA, May 2006 - 2016.

Creator, Toxicology practical lab, 2003 – present.
10/2006 - Present

Service to the School of Medicine

Preceptor, M3, Orientation Ward Simulation, April 10, 2019.

Member, School of Medicine CME Oversight Committee, October 2018 – present.

Member, Faculty Promotion Committee for Nathan Lewis to Associate Professor in the VCU School of Medicine, September 6, 2018.

Faculty Coach, VCU Entrustable Professional Activity (EPA), April 18, 2018 – June 30,

2019.

Member, University Health Services Professional Education Programs (UHS-PEP) Strategic Planning Committee, February 6, 2018.

Preceptor, M3, Working Climate and Mistreatment Workshop, April 2017 - 2019

Preceptor, Emergency Medicine Interest Group, March 2017.

Preceptor, Wilderness Medicine Interest Group, January – March 2016.

Preceptor, Critical Care Interest Group, December 2015.

Judge, The 2nd Annual Anatomy CPC Competition, December 4, 2015.

Member, CME Advisory Committee, March 2014 – present.

Member, Faculty Promotion Committee for Dr. Michael Kurz, October 2012.

Preceptor, Foundations in Clinical Medicine, June 2010 - present.

Clerkship Director, for M2 elective in Medical Toxicology, Virginia Commonwealth University, School of Medicine, Richmond, VA, 2009 - present.

Medical Oversight (University appointment), EpiPen epidemiological study, at Virginia Commonwealth University, 2008.

Clerkship Director, M4 Medical Student Medical Toxicology Elective Rotation – MEDI - 1005,42016 Virginia Commonwealth University, School of Medicine, Richmond, VA, October 2008 - present.

Creator and Director of Toxicology in Literature Course, Virginia Commonwealth University, School of Medicine, Richmond, VA, 2008 - present.
07/2008 - Present

Publications

Papers Published in Peer Reviewed Journals

1. Downs JW, Hoffman RM, **Cumpston KL**, Rose SR. Occupational Medicine Forum: What Should OEM Physicians Know About Ammonium Bifluoride? *J Occup Environ Med.* 2019, June 28. PMID 31261217.

Downs, JW, **KL Cumpston**, MJ Feldman. Giant Hogweed phytophotodermatitis. *Clinical Toxicology* 2019 Feb 10:1-2. PMID 30739522.

Schall, Charles, **Cumpston KL**, Jenczowski J, Wills BK. A Woman with a Severe Rash.

Annals of Emergency Medicine 2018;72(2):128. PMID 30031506.

Cumpston KL, Wiggins JC, Mlodzinski S, Moyer J, Wills BK. Update on Current Treatment of Acute Opioid Overdose. *Curr Treat Options Psych* (2018) 5: 301-312. DOI 10.1007/s40501-018-0149-x.

Cumpston KL, Rose SR. Carbon Monoxide: The Other Silent Killer. *Emergency Medicine* 2018; 49(11): 486-497.

Hoffman RM, Maskell KF, **Cumpston KL**. A local survey of gastric lavage for gastrointestinal decontamination in a new century: The future marches on. *Am J of Emerg Med*, 2018 Jun;36(6):1114-1115. PMID 29157788

Farrugia LA, Rhyee SH, Calello DP et al. Toxicology Investigators Consortium Study Group (**Cumpston KL** collaborator). The Toxicology Investigators Consortium Case Registry- The 2016 Experience. *J Med Toxicol* 2017 Sep;13(3):203-226. PMID 28766237

Cumpston KL, Carter M, Wills BK. Clinical outcomes after Kratom exposures: A poison center case series. *Am J Emerg Med*, 2018; Jan;36(1):166-168. PMID 28751041

Nguyen TT, Armengol C, Wilhoite G, **Cumpston KL**, Wills BW. Adverse events from physostigmine: An observational study. *Am J Emerg Med*, 2018 Jan;36(1):141-142. PMID 28716594

Dempsey SK, Poklis JL, Sweat K, **Cumpston KL**, Wolf CE. Acute Toxicity From Intravenous Use of the Tricyclic Antidepressant Tianeptine. *J Anal Toxicol*, 2017;41(6): 547-550. PMID 28541419.

Moss MJ, Maskell KF, Heiger MA, Wills BK, **Cumpston KL**. An algorithm for identifying mothball composition. *Clinical Toxicology*, 2017; May 25:1-3. PMID:28541143

Emswiler MP, Griffith FP, **Cumpston KL**. Clinically Significant Evenomation from Postmortem Copperhead. *Wilderness and Environmental Medicine*, 2017;28(1):43- PMID:27876196

Gleason BL, West A, Danny A, Utah O, Vogt M, **Cumpston KL**, Kelly M, Brasler B, Wyatt S, Forlano L. Collaborative Public Health Investigation of Clenbuterol-Adulterated Heroin Outbreak - Richmond, Virginia, *Journal of Public Health Management and Practice* March/April 2017;23(2): e8 - e11. PMID: 28121776

Kite AC, Le BQ, **Cumpston KL**, Heiger MA, Feldman MJ, Pozez AL. [Blast Injuries Caused by Vape Devices: 2 Case Reports](#). *Ann Plast Surg*. 2016 Dec;77(6):620-622. PMID: 27464532

Heiger MA, Afeld JL, **Cumpston KL**, Wills BK. [Topical Benzocaine and Methemoglobinemia](#). *Am J Ther*. 2016, Oct 12.

PMID:27754990

Rose SR, **Cumpston KL**, Kim J, Difranco D, Wills BK. [Absorption of salicylate powders versus tablets following overdose: a poison center observational study.](#) *Clin Tox*, 2016. Nov; 54(9): 857-861. PMID:27383649

Hieger MA, Emswiler MP, Maskell KF, Sentz JT, Miller KB, Wolf CE, **Cumpston KL**, Wills BK. A Case Series of Clenbuterol Toxicity Caused by Adulterated Heroin. *J Emerg Med*. 2016 Sep;51(3):259-61. PMID:27431866

Cumpston, KL, Reynolds, P, Stromberg PE, Wills BW, Rose SR. Variability of limb measurements performed by ED nurses in a simulated Crotalinae envenomation. *Am J Emerg Med*. 2016, Aug; 34(8): 1683-5. PMID: 27289439

Hieger MA, Maskell KF, Moss MJ, Powell SW, **Cumpston KL**. [Dofetilide in Overdose: A Case Series from Poison Center Data.](#) *Cardiovasc Toxicol*. 2016 Aug 26. PMID:27565970

Cumpston KL, Gopaul R, Wills B. [Adjunctive Use of Low-Dose Intralipid Associated With Hemodynamic Improvement in Combined Amlodipine and Labetalol Overdose Refractory to Standard Therapy.](#) *Am J Ther*. 2016 Aug 17. [Epub ahead of print] PMID:27574948

Wolf C, Poklis JL, **Cumpston KL**, Moss, M, Poklis A. Acute Dilated Cardiomyopathy and Myocardial Injury after Combined 4-Fluoroamphetamine and Modafanil Ingestion. *Drug Testing and Analysis*. 2016; May 30: PMID: 27238856

Maskell K, Beckett S, **Cumpston KL**. Fomepizole in Chronic Kidney Disease After Fomepizole: A Case Report. *American Journal of Therapeutics*, Dec 9, 2015. PMID: 26658806

Hieger MA, Rose SR, **Cumpston KL**, Stromberg PE, Miller S, Wills BK. Severe poisoning after self-reported use of 2-(4-iodo-2,5-dimethoxyphenyl)-N-[(2-methoxyphenyl)methyl]ethanamine, a novel substituted amphetamine: a case series. *Am J Emerg Med*. 2015;33(12):1843.e1-1843.e3. PMID: 25983267

Nguyen, TT, Troendle M, **Cumpston KL**, Rose SR, Wills BK. Lack of adverse effects from flumazenil administration: an ED observational study. *Am Emerg Med*, 2015; 33:1677-1679. PMID: 26324010

Stromberg PE, Burt MH, Rose SR, **Cumpston KL**, Emswiler MP, Wills BK. Airway compromise in children exposed to single use laundry detergent pods: a poison center. *Am J Emerg Med*. 2015 Mar;33(3):349-51.

Wills BK, Reynolds P, Chu E, Murphy C, **Cumpston KL**, Stromberg P, Rose SR. Clinical Outcomes in Newer Anticonvulsant Overdose: A Poison Center Observational Study. *J Med Toxicol*. 2014 Sep;10(3):254-60.

Cumpston KL, Stromberg P, Wills BK, Rose SR. Activated Charcoal Does Not Reduce Duration of Phenytoin Toxicity in Hospitalized Patients. *Am J Ther*. 2014 Mar 10.

Stromberg PE, **Cumpston KL**. Cases from NACCT acute and intensive care symposium: altered mental status, seizures, and rash in a fumigation company employee. *Clin Toxicol (Phila)*. 2013 Mar;51(3):182-5.

Leikin JB, Karydes HC, Whiteley PM, Wills BK, **Cumpston KL**, Jacobs JJ. Outpatient toxicology clinic experience of patients with hip implants. *Clin Toxicol (Phila)*. 2013 May;51(4):230-6.

Cumpston KL. Is There a Role for Fasciotomy in Crotalinae Envenomations in North America? *Clinical Toxicology*, 2011; 49(5): 351-365 .

Cumpston KL, Aks SE, Sigg T, Pallasch E. Whole Bowel Irrigation and the Hemodynamically Unstable Calcium Channel Blocker Overdose: Primum Non Nocere. *J Emerg Med*, July, 2008:171-174.

Dubow J, Kim A, Leikin J, **Cumpston KL**, Bryant S, Rezak M. Visual system side effects caused by parasympathetic dysfunction after botulinum toxin type B injections. *Mov Disord*. 2005 Jul;20:877-80.

Prendergast HM, Sloan EP, **Cumpston KL**, Schlichting AB. Myocardial Infarction and cardiac complications in emergency department patients admitted to the intensive care unit with a gastrointestinal hemorrhage. *J Emerg Med*. 2005 Jan; 28(1) 19-25.

Leikin JB, Mycyk M, Bryant SM, **Cumpston KL**, Hurwitz S. Characteristics of Patients with No Underlying Toxicologic Syndrome Evaluated in a Toxicology Clinic, *Journal of Toxicology Clinical Toxicology*, 2004; 42(5): 643-648.

Cumpston KL, Bryant SM, Aks SE. Gastric decontamination and Enhanced Elimination in a Sustained Release Bupropion Overdose. *American Journal of Emergency Medicine*, 2004; 22(3): 231-232.

Bryant SM, **Cumpston KL**, Lipsky M, et al. Metformin Associated Respiratory Alkalosis. *American Journal of Therapeutics*, May-June 2004; 11(3):236-7.

Cumpston KL, Vogel S, Leikin JB, Erickson T. Acute Airway Compromise After a Brief Exposure to a Dieffenbachia Plant: Case Report and Review of the Literature, *Journal of Emergency Medicine*, November 2003;25(4):391-397.

Bryant SM, **Cumpston KL**, Leikin JB, et al. Facial Nerve Neuritis Secondary to Ultraviolet Radiation. *Vet Human Tox*, August 2003;45(4):217-218.

Bryant SM, Zilberstein J, **Cumpston KL**, et al. A Case Series of Ziprasidone Overdoses, *Vet Human Tox*, 2003;45(2):81-82.

Books, Book Chapters and Monographs

1. **Cumpston KL.** Cyanide Poisoning. In Schaider JJ, Barkin RM, Hayden SR, Wolfe RE, Barkin AZ, Shayne P, Rosen P (eds): *5-Minute Emergency Medicine Consult*, 6th ed Wolters Kluwer/ Lippincott Williams and Wilkins, Philadelphia 2019;.

Cumpston KL. Digoxin Poisoning. In Schaider JJ, Barkin RM, Hayden SR, Wolfe RE, Barkin AZ, Shayne P, Rosen P (eds): *5-Minute Emergency Medicine Consult*, 6th ed Wolters Kluwer/ Lippincott Williams and Wilkins, Philadelphia 2019;.

Cumpston KL. Ethylene Glycol Poisoning. In Schaider JJ, Barkin RM, Hayden SR, Wolfe RE, Barkin AZ, Shayne P, Rosen P (eds): *5-Minute Emergency Medicine Consult*, 6th ed Wolters Kluwer/ Lippincott Williams and Wilkins, Philadelphia 2019; .

Cumpston KL. Methanol Poisoning. In Schaider JJ, Barkin RM, Hayden SR, Wolfe RE, Barkin AZ, Shayne P, Rosen P (eds): *5-Minute Emergency Medicine Consult*, 6th ed Wolters Kluwer/ Lippincott Williams and Wilkins, Philadelphia 2019; .

Emswiler MP, **Cumpston KC.** Newer Anticonvulsants. Gabapentin, Lamotrigine, Levetiracetam and Topiramate, In *Critical Care Toxicology, Diagnosis and Management of the Critically Poisoned Patient*, 2nd Ed., Brent J, Burkhart K, Dargan P, Hatten B, Megarbane B, Palmer R, White J (eds), Springer International Publishing, 2017; 1065 – 1082.

Maskell K, **Cumpston KL**, Erickson T, Leikin JB. Poisoning in Pregnancy. In *Critical Care Toxicology, Diagnosis and Management of the Critically Poisoned Patient*, 2nd Ed., Brent J, Burkhart K, Dargan P, Hatten B, Megarbane B, Palmer R, White J (eds), Springer International Publishing, 2017; 159 - 192

Stromberg PE, **Cumpston KL.** Cyanide Poisoning. In Schaider JJ, Barkin RM, Hayden SR, Wolfe RE, Barkin AZ, Shayne P, Rosen P (eds): *5-Minute Emergency Medicine Consult*, 5th ed Wolters Kluwer/ Lippincott Williams and Wilkins, Philadelphia 2015; 278-279.

Troendle MM, **Cumpston KL.** Digoxin Poisoning. In Schaider JJ, Barkin RM, Hayden SR, Wolfe RE, Barkin AZ, Shayne P, Rosen P (eds): *5-Minute Emergency Medicine Consult*, 5th ed Wolters Kluwer/ Lippincott Williams and Wilkins, Philadelphia 2015; 322-323.

Stromberg PE, **Cumpston KL.** Ethylene Glycol Poisoning. In Schaider JJ, Barkin RM, Hayden SR, Wolfe RE, Barkin AZ, Shayne P, Rosen P (eds): *5-Minute Emergency Medicine Consult*, 5th ed Wolters Kluwer/ Lippincott Williams and Wilkins, Philadelphia 2015; 394-395.

Troendle MM, **Cumpston KL.** Methanol Poisoning. In Schaider JJ, Barkin RM, Hayden SR, Wolfe RE, Barkin AZ, Shayne P, Rosen P (eds): *5-Minute Emergency Medicine Consult*, 5th ed Wolters Kluwer/ Lippincott Williams and Wilkins, Philadelphia 2015; 704

Miller S, **Cumpston KL**. 2014. Diphenhydramine. In: Wexler, P. (Ed.), *Encyclopedia of Toxicology*, 3rd edition vol 2. Elsevier Inc., Academic Press 2014, pp. 195-197.

Miller S, **Cumpston KL**. 2014. Alpha antagonists. In: Wexler, P. (Ed.), *Encyclopedia of Toxicology*, 3rd edition vol 1. Elsevier Inc., Academic Press 2014, pp. 154-155.

Stromberg, PE, **Cumpston KL**. 2014. Sulfates. In: Wexler, P. (Ed.), *Encyclopedia of Toxicology*, 3rd edition vol 4. Elsevier Inc., Academic Press 2014, pp. 413–415.

Cumpston KL. Cardiovascular Drugs. In Adams JG, Barton ED, Collings J, DeBlieux PMC, Gisondi MA, Nadel ES. (eds): *Emergency Medicine*, 2nd ed Saunders/Elsevier, 2013.

Cumpston KL. Cyanide Poisoning. In Schaidler JJ, Barkin RM, Hayden SR, Wolfe RE, Barkin AZ, Shayne P, Rosen P (eds): *5-Minute Emergency Medicine Consult*, 4th ed Wolters Kluwer/ Lippincott Williams and Wilkins, Philadelphia 2011; 276-277.

Cumpston KL. Digoxin Poisoning. In Schaidler JJ, Barkin RM, Hayden SR, Wolfe RE, Barkin AZ, Shayne P, Rosen P (eds): *5-Minute Emergency Medicine Consult*, 4th ed Wolters Kluwer/ Lippincott Williams and Wilkins, Philadelphia 2011; 320-321.

Cumpston KL. Ethylene Glycol Poisoning. In Schaidler JJ, Barkin RM, Hayden SR, Wolfe RE, Barkin AZ, Shayne P, Rosen P (eds): *5-Minute Emergency Medicine Consult*, 4th ed Wolters Kluwer/ Lippincott Williams and Wilkins, Philadelphia 2011; 388-389.

Cumpston, KL. Methanol Poisoning. In Schaidler JJ, Barkin RM, Hayden SR, Wolfe RE, Barkin AZ, Shayne P, Rosen P (eds): *5-Minute Emergency Medicine Consult*, 4th ed Wolters Kluwer/ Lippincott Williams and Wilkins, Philadelphia 2011; 698-699.

Cumpston KL. Cardiovascular Drugs. In Adams JG, Barton ED, Collings J, DeBlieux PMC, Gisondi MA, Nadel ES. (eds): *Emergency Medicine*, 1st ed Saunders/Elsevier, July 8th, 2008; 1557-1571.

Cumpston KL. Special Populations: Women Who Are Pregnant In: McFee RB, Leikin JB (eds): *Toxic-terrorism*, 1st ed McGraw Hill, 2007; 133-145.

*Erickson TB, **Cumpston KL**, Dobiesz V. Management Principles of Overdose in Pregnancy In: Shannon MW, Borron SW, Burns MJ (eds): Haddad and Winchester's Clinical Management of Poisoning and Drug Overdose, 4th ed WB Saunders/Elsevier, 2007; 347-361.*

Cumpston KL. Methanol, In: Schaidler J, Hayden SR, Wolfe R, et al (eds): *Rosen's 5-Minute Emergency Medicine Consult*, 3rd Ed., Lippincott Williams and Wilkins, 2006;

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Personal Statement

In medical school my biochemistry professor told me I should go into Internal Medicine because I did so well in his class. Fortunately, I did not listen to him and matched in Emergency Medicine. It was during my residency I discovered three mentors who were trained in medical toxicology. Through them I learned that clinical toxicology is a dynamic connection between microscopic mechanisms and macroscopic toxidromes, defined by the kinetic principles of the toxin.

Success in this field requires a fascination with the complexity of pharmacology, physiology and biochemistry and the patience and resiliency to troubleshoot the challenges of caring for often uncooperative patients combined with life-threatening effects. There is no greater satisfaction than assembling the clues surrounding these puzzling situations, recognizing the differential possibilities and administering an antidote that reverses the toxicity before your eyes. To reciprocate the fostering of my career, I felt compelled to demonstrate my gratitude by continuing on the path my predecessors forged, by sustaining excellence for the benefit of future clinical toxicologists and our patients. This led me to the American Academy of Clinical Toxicology (AACT).

Participation in AACT has provided me numerous opportunities to mix teaching, service and investigational research. As a speaker and organizer for symposia at the annual North American Congress of Clinical Toxicology (NACCT), I refined my skills as a teacher with an international audience. My interest in education must have been obvious, as I was asked to Chair the CME Committee for AACT. In this position, I learned a tremendous amount about providing quality, balanced, evidenced-based education for physicians in North America and Europe.

Through NACCT, I continued to develop research methods and writing skills by preparing and reviewing scientific abstracts and proposals for research grants.

Collaboration with my peers across the nation and sharing my discoveries has always been important to me, particularly across medical subspecialties. My years of serving as a peer-reviewer for multiple scientific journals has reinforced my belief that clinical toxicologists have made a significant impact to multidisciplinary medical literature.

I am most proud of being elected President-elect of AACT. The President-elect serves as the Chair of the NACCT Planning Committee, which oversees all of the meeting educational content. This role requires leading and coordinating a diverse group of organizers and speakers from multiple organizations and nations. It is abundantly clear to me the success of this international Congress is very dependent on the cooperative efforts of this relatively small committee. In the autumn of 2020, as I transition to AACT President, I hope to continue the privilege of enriching the next generation of clinical toxicologists.

Respectfully,

Kirk L. Cumpston, DO

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