

**Justin K. Arnold, D.O., M.P.H.**

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## Education

Medical School:	Nova Southeastern University College of Osteopathic Medicine, Fort Lauderdale, FL, 2009, D.O.	2005-2009
Graduate School:	Nova Southeastern University College of Osteopathic Medicine, Fort Lauderdale, FL, 2009, M.P.H.	2005-2009
Undergraduate:	Pennsylvania State University, University Park, PA, 2002, B.S. Nutrition	1998-2002

## Postgraduate Training

Fellowship:	Medical Toxicology, Emory University & Centers for Disease Control & Prevention (CDC), Atlanta, GA, 2015	2013-2015
Residency:	Emergency Medicine, Lehigh Valley Health Network, Bethlehem, PA, 2013	2009-2013
Board Certification:	Medical Toxicology, American Board of Emergency Medicine	2016-2026
Board Certification:	Addiction Medicine, American Board of Addiction Medicine	2015-2020
Board Certification:	Emergency Medicine, American Board of Emergency Medicine	2014-2024
License (active)	Florida Unrestricted Medical License	2019-Present
License (active)	Alabama Unrestricted Medical License	2015-2021
License (active)	DEA Schedule II-V	2011-Present
License (inactive)	Georgia Unrestricted Medical License	2013-2016
License (inactive)	Pennsylvania Unrestricted Medical License	2010-2014

## Awards, Honors, Honorary Society Memberships

Faculty of the American College of Medical Toxicology (FACMT)	2020
Faculty of the American College of Emergency Physicians (FACEP)	2018
WestJEM Distinguished Reviewer Award for 2017-2018	2018
Program Director's Award, University of Alabama at Birmingham EM Residency	2018
Lecturer of the Year Award, University of Alabama at Birmingham EM Residency	2017
CDC Honor Award for Excellence in Epidemiology – Domestic	2016
CDC Semper Docens Award	2015
Clinical Excellence Award, Lehigh Valley Health Network	2013
Highest In-service Score Award, Lehigh Valley Health Network	2013
FOEM FLAME Residency Research Award	2013
Eagle Scout Award	1997

## Academic Appointments

Associate Professor of Medicine & Core Faculty	Department of Internal Medicine, Division of Emergency Medicine, University of South Florida Morsani College of Medicine, Tampa, FL	2021-Present
Course Developer & Director	MDE 8714 / Intro to Toxicology, University of South Florida, Tampa, FL	2020-Present
Assistant Professor of Medicine & Core Faculty	Department of Internal Medicine, Division of Emergency Medicine, University of South Florida Morsani College of Medicine, Tampa, FL	2019-2021
Assistant Professor of Medicine & Core Faculty	Department of Emergency Medicine, University of Alabama at Birmingham, Birmingham, AL	2015-2019
Faculty & Senior Associate	Department of Emergency Medicine, Emory University School of Medicine, Atlanta, GA	2013-2014
Chief Resident	Department of Emergency Medicine, Lehigh Valley Health Network, Bethlehem, PA	2012-2013
Summer Semester Anatomy Fellow	College of Osteopathic Medicine, Nova Southeastern University	2006

## Professional Appointments

Medical Director	Florida Poison Information Center Tampa. Provides medical direction, guidelines, quality assurance, education, and oversight to a poison center that covers the central 1/3 of the state of Florida (est. 7 million people), Tampa, FL	2019-Present
Medical Director	Regional Poison Control Center at Children's of Alabama. Provided medical direction, guidelines, quality assurance, education, and oversight to a poison center that covers the state of Alabama (est. 5.5 million people), Birmingham, AL	2016-2019
Associate Medical Director	Regional Poison Control Center at Children's of Alabama. Provided assistance with guidelines, quality assurance, education, and oversight to a poison center that covers the state of Alabama (est. 5.5 million people), Birmingham, AL	2015-2016

## Professional Consultantships

Team Physician	Tampa Bay Lightning, Tampa, FL	2019-Present
Flight Physician	AirMed International, Birmingham, AL	2015-2019
Medical Officer	Disaster Medical Assistance Team (DMAT) PA-4, US Health and Human Services	2011-2014
Assistant Medical Director	Emmaus Ambulance Corps, Allentown, PA	2011-2013
Assistant medical Director	Easton Emergency Squad, Easton, PA	2009-2010

## Hospital Appointments

Attending Physician	Tampa General Hospital/TEAMHealth, Tampa, FL	2019-Present
Consult Physician	Children's Hospital of Alabama, Birmingham, AL	2016-Present
Attending Physician	University of Alabama at Birmingham Hospital, Birmingham, AL	2015-2019
Attending Physician	Wellstar Hospitals/ApolloMD, Atlanta, GA	2014-2015
Attending Physician	Emory University Hospital Midtown, Atlanta, GA	2013-2014
Staff Physician	Sacred Heart Hospital, Allentown, PA	2012-2013
Staff Physician	Lehigh Valley Health Network Transitional Skilled Unit, Allentown, PA	2011-2012

## TEACHING

## Teaching, Lectures

Undergraduate Medical (UME, DPT, PA, Pharm)

Graduate Medical (residents, fellows)

Hospital

MDE 8714 Course Developer & Director - <i>Intro to Toxicology</i> , University of South Florida Morsani College of Medicine, medical student course starting 2020-2021. 6 contact hours/week, 5-8 learners/contact hour, 6 months/year.	2020-Present
USF GME Clinical Rotation for Medical Residents –Course Developer & Director - <i>Medical Toxicology</i> , University of South Florida Morsani College of Medicine, medical residents (EM + Occ Med), 4 contact hours/week, 1-2 learners/contact hour, 10 months/year	2019-Present
NUR4187 <i>Public Family and Community Health</i> , Rasmussen University, nursing student course, 2 contact hour/week, 24 learners/contact hour, 4 weeks/year	2019-Present
GBS153 <i>Toxidromes &amp; Manifestation of the Poisoned Patient lecture for Fundamental of Medicine</i> at University of Alabama School of Medicine, medical school course, 1 contact hour, 120 students	2019
UAB GME Clinical Rotation for Medical Students – Course Co-Director <i>Medical Toxicology</i> 6 contact hours/week, 1-2 learners/contact hour, 6 months/year	2016-2019
Kines 403 <i>Emergency Medicine Technology</i> , Pennsylvania State University, undergraduate elective, 6 contact hours/week, 8 months/year	2000-2002
Kines 498F – Course Developer - <i>Emergency Med Field Practicum</i> , Pennsylvania State University, undergraduate elective, 8 contact hours/week, 12 learners/contact hour, 4 months/year	2000-2002
Kines 498A <i>Emergency Medical Technology</i> , Pennsylvania State University, undergraduate elective, 6 contact hours/week, 6 learners/contact hour, 4 months/year	2002
Kines 497A – Course Developer - <i>Emergency Medical Field Ops</i> , Pennsylvania State University, undergraduate elective, 6 contact hours/week, 8 learners/contact hour, 4 months/year	2002
Nutr 120 <i>Scientific Principles of Food Prep</i> , Pennsylvania State University, undergraduate elective, 4 contact hours/week, 30 learners/contact hour, 4 months/year	1999

## Teaching, Supervisory

USF DCE Medical Student Shadowing	Feb 2021
USF GME Clinical Rotation for Medical Residents – Rotation Director - <i>Medical Toxicology</i> , medical residents (EM + Occ Med), 4 contact hours/week, 1-2 learners/contact hour, 10 months/year	2019-Present
USF GME Clinical Rotation for Medical Residents – <i>Emergency Medicine in the ED</i> , medical residents, 10 contact hours/week, 1 learner/contact hour, 12 months/year	2019-Present
UAB GME Clinical Rotation for Medical Residents – <i>Medical Toxicology</i> , medical residents (EM), 12 contact hours/week, 1 learner/contact hour, 10 months/year	2015-2019
UAB GME Clinical Rotation for Medical Residents – <i>Emergency Medicine in the ED</i> , medical residents, 12 contact hours/week, 1 learner/contact hour, 12 months/year	2015-2019

## Teaching, Innovations

Co-developed PrAOUD (Practical Approach to Opioid Abuse Use Disorder), University of Alabama at Birmingham with CDC/Emory University, Atlanta, GA	2017
Created and recorded the Alabama Law Enforcement Intranasal Naloxone Training (ALEINT) program. This is a required naloxone training program for every law enforcement officer in the state of Alabama that carries naloxone.	2017
Organized and ran a residency wide Clinical Pathological Case (CPC) Competition, University of Alabama at Birmingham EM Residency, Birmingham, AL	2016

## Lectures by Invitation - International

Short Oral Presentation: Home continuous positive airway pressure (CPAP) machine used as a novel delivery method of inhaled “detergent suicides”, EAPCCT 2024, Munich Germany	May 2024
Lighting Oral Abstract Presentation: Healthcare Facility Follow-up Call Metrics: An Analysis of Call Components and External Influences Within a Single Poison Center, NACCT 2023, Montreal Canada	Sep 2023
SPI Roundtable: Toxic Mushroom and Maternal Poppers in an Infant. NACCT 2023, Montreal, Canada	Sep 2023
Poison Centers and Synthetic Cannabinoids Contamination Outbreak in Florida. MENATOX 2023 Abu Dhabi, UAE	Jan 2023
Reye’s Syndrome Diagnosis and Treatment. MENATOX 2023 Abu Dhabi, UAE	Jan 2023
Hydrofluoric Acid Simulation, Toxicology Teaching for Residents Course. MENATOX 2023 Abu Dhabi, UAE	Jan 2023

Basic Management Principles: PIP Workshop. MENATox, Muscat, Oman	May 2022
Synthetic Cannabinoids in 2022: Where are We Now? MENATox, Muscat, Oman	May 2022
Toxicology Mythbusters: Digoxin & Stone Heart, Middle Eastern North African Toxicology Association (MENATox) Conference, Muscat, Oman	Mar 2018
Physostigmine In or Out?, Middle Eastern North African Toxicology Association (MENATox) Conference, Muscat, Oman	Mar 2018
Severe Refractory Alcohol Withdrawal, Middle Eastern North African Toxicology Association (MENATox) Conference, Sohar, Oman	Feb 2017
Tramadol: The World's Most Popular Pill, Middle Eastern North African Toxicology Association (MENATox) Conference, Sohar, Oman	Feb 2017
Opioid, Ethanol, and Other drugs of Abuse Track – Chair & Moderator, Middle Eastern North African Toxicology Association (MENATox) Conference, Sohar, Oman	Feb 2017
Epidemiology for All, Middle Eastern North African Toxicology Association (MENATox) Conference, Muscat, Oman	Feb 2017
AACT Late Breaking News: Severe Illness Associated with Reported Use of Synthetic Cannabinoids – Mississippi, April 2015 - Moderator, North American Congress of Clinical Toxicology (NACCT), San Francisco, Ca	Oct 2015

#### Lectures by Invitation National

Synthetic Cannabinoids Adulterated with Brodifacoum – Part II: The Florida Experience. American Academy of Forensic Sciences 2023 Annual Meeting (Co-Author, Presented by Rob Middleberg, Ph.D). Orlando Florida	Feb 2023
Synthetic Cannabinoid and Brodifacoum Toxicity – CDC Preparedness Against Chemical Threats (PACT) Meeting, Online	Sep 2022
Platform Session: Brodifacoum-contaminated Synthetic Cannabinoid Poisoning: A Descriptive Analysis. NACCT 2022 San Francisco, Ca	Sep 2022
SPI Roundtable: 1,4-BD and Hydroxychloroquine Cases. NACCT 2022 San Francisco, Ca	Sep 2022
December 2021 Synthetic Cannabinoid-associated Coagulopathy Outbreak in Florida, CDC Clinician Outreach and Communication Activity (CDC COCA) (National webinar)	Apr 2022
Hyperthermia in Poisonings Blog Posting (Not live lecture), University of South Florida EM Residency Website.	Sept 2020
Marine Envenomations for the Emergency Physician, TEAMHealth Enduring Education	Aug 2020

Marine Envenomations for the Emergency Physician, Lehigh Valley Health Network EM Grand Rounds, Allentown, PA	Dec 2019
Public Health & Poison Centers: How to Create a Career in Emergency Medicine and Public Health, Lehigh Valley Health Network EM Grand Rounds, Allentown, PA	Dec 2019
Synthetic Cannabinoids: Information & Guidance for Clinicians, CDC Clinician Outreach and Communication Activity (CDC COCA) estimated 3,000 participants (National webinar)	Mar 2016
Lost & Found – ACMT National Case Conference (National webinar)	Apr 2015

#### Lectures by Invitation Regional

Toxic Alcohols! Port St. Lucie Emergency Medicine Grand Rounds, Virtual.	Apr 2023
Synthetic Cannabinoid Abuse & Poisoning in 2022: An Approach for Florida's Physicians, Florida Osteopathic Medical Association (FOMA) Virtual Annual Convention. Estimated 2,100 participants, Virtual.	Feb 2022
Toxic Shock, Port St Lucie Emergency Medicine Grand Rounds, Virtual	Nov 2021
Novel Psychoactive Substances – What Emergency Physicians Need to Know, Lakeland Regional Hospital Grand Rounds, Lakeland, FL	Apr 2021
Visual Toxicology A to Z, Brandon Regional Hospital Emergency Medicine Grand Rounds, Brandon Regional Hospital, Brandon, FL	Jan 2021
The Practice of Medical Toxicology, UCF/HCA Emergency Medicine Grand Rounds, Osceola Regional Medical Center, Orlando, FL	Sept 2020
Novel Psychoactive Substances – What Physicians Need to Know about the Rapidly Evolving Drug Scene, Brandon Regional Hospital Emergency Medicine Grand Rounds, Brandon, FL	Dec 2019
Regional Poison Control Center Public Health Collaboration: Past, Present, and Future, Alabama Public Health Association Annual Conference 2019, Prattville, AL	Apr 2019
Pitfalls with Pee – Interpreting the Urine Drug Screen, SEC ACEP Regional Conference, Destin, FL	Jun 2018
Novel Antidotes, SEC ACEP Regional Conference, Destin, FL	Jun 2018
Antiquated, Fading, and Debunked Antidotes, SEC ACEP Regional Conference, Destin, FL	Jun 2018
Interpreting the Urine Drug Screen for APPs, SEC ACEP Regional Conference, Destin, FL	Jun 2018
Recognizing Signs of Prescription Drug Abuse, St Vincent's East Hospital-wide Grand Rounds, Birmingham, AL	Jun 2018
Poison Emergencies: A Rapid Review of Emerging Drugs & Therapies, Baptist Medical Center Hospital-wide Grand Rounds, Montgomery, AL	Oct 2017

Severe Refractory Withdrawal, Emory University Toxicology Fellowship, Atlanta, GA	Feb 2017
Advanced Hazmat Life Support #2, Georgia Regents University, Augusta, GA	Mar 2015
Advanced Hazmat Life Support, Georgia Regents University, Augusta, GA	Mar 2015
Novel Drugs of Abuse, Georgia Regents University EM Residency, Augusta, GA	Mar 2015
Toxic Alcohols, University of Alabama at Birmingham EM Residency, Birmingham, AL	Jan 2015
Chemical response: Public Health Preparedness, CDC EISO Conference, Atlanta, GA	Mar 2014

#### Lectures by Invitation - Local

Trending Drugs of Abuse in 2023: Beyond Fentanyl. University of South Florida Department of Pediatrics Grand Rounds, Tampa, FL	Nov 2023
Plants and Mushrooms, University of South Florida EM Residency Grand Rounds, Tampa, FL	Sept 2023
Snake Envenomations, University of South Florida EM Residency Grand Rounds, Tampa, FL	July 2023
Florida Poison Information Center Tampa Overview, APC Quarterly Meeting, Tampa General Hospital, Tampa, FL	July 2023
Toxicology review Part One, University of South Florida EM Residency Grand Rounds, Tampa, FL	Feb 2023
Toxicology review Part One, University of South Florida EM Residency Grand Rounds, Tampa, FL	Feb 2023
Trending Drugs of Abuse in 2023: Beyond Fentanyl. University of South Florida Department of Pediatrics Grand Rounds, Tampa, FL	Jan 2023
Pesticides & Nerve Agents, University of South Florida EM Residency Grand Rounds, Tampa, FL	Sep 2022
Bulletproof Consults, University of South Florida EM Residency Medical Students, Tampa, FL	Apr 2022
Toxicology review Part Two, University of South Florida EM Residency Grand Rounds, Tampa, FL	Feb 2022
Toxicology review Part One, University of South Florida EM Residency Grand Rounds, Tampa, FL	Feb 2022
Toxic Hemoglobinopathies, University of South Florida EM Residency Grand Rounds, Tampa, FL	Dec 2021



Poisonous Plants of Florida, University of South Florida EM Residency Grand Rounds, Tampa, FL	Oct 2021
Therapeutic Approaches to Toxin-Induced Shock, University of South Florida EM Residency Grand Rounds, Tampa, FL	Aug 2021
Therapeutic Approaches to Toxin-Induced Shock, University of South Florida Roy Behnke Grand Rounds, Department of Internal Medicine, Tampa, FL	Feb 2021
Toxicology review Part Two, University of South Florida EM Residency Grand Rounds, Tampa, FL	Feb 2021
Toxicology review Part One, University of South Florida EM Residency Grand Rounds, Tampa, FL	Feb 2021
Visual Toxicology A to Z, University of South Florida EM Residency Grand Rounds, Tampa, FL	Dec 2020
Snake Envenomations, University of South Florida EM Residency Grand Rounds, Tampa, FL	Oct 2020
Hyperthermia in Poisonings, University of South Florida EM Residency Grand Rounds, Tampa, FL	Sept 2020
Toxin-Induced Seizures, University of South Florida EM Residency Grand Rounds, Tampa, FL	Aug 2020
Marine Envenomations, University of South Florida EM Residency Grand Rounds, Tampa, FL	July 2020
Cardiovascular Toxins, University of South Florida EM Residency Grand Rounds, Tampa, FL	May 2020
Toxicology Review Part Two, University of South Florida EM Residency Grand Rounds, Tampa, FL	Jan 2020
Toxicology Review Part One, University of South Florida EM Residency Grand Rounds, Tampa, FL	Jan 2020
Toxidromes & Intro to Toxicology, University of South Florida EM Residency Grand Rounds, Tampa, FL	Oct 2019
Snake & Spider Envenomations, University of Alabama at Birmingham Hand Fellowship Grand Rounds, Birmingham, AL	May 2019
Neuroleptics and Anticonvulsant Toxicity, University of Alabama at Birmingham EM Residency Grand Rounds, Birmingham, AL	May 2019
Black, Blue, Green and In-between – Toxic Hemoglobinopathies, , University of Alabama at Birmingham EM Residency Grand Rounds, Birmingham, AL	Mar 2019
Snake Envenomations, Wilderness Medicine Interest Group, UAB School of Medicine, Birmingham, AL	Feb 2018
Snake Envenomations, Samford University Pharmacy Elective Course, Birmingham, AL	Feb 2018
Snake & Spider Envenomations for Orthopedic Surgeons, , University of Alabama at Birmingham Hand fellowship Grand Rounds, Birmingham, AL	May 2018

Inhaled Toxins, , University of Alabama at Birmingham EM Residency Grand Rounds, Birmingham, AL	Feb 2018
Refractory Alcohol Withdrawal, University of Alabama at Birmingham Anesthesia/Critical Care Fellowship Grand Rounds, Birmingham, AL	Feb 2018
Household Toxins, University of Alabama at Birmingham EM Residency Grand Rounds, Birmingham, AL	Oct 2017
Acetaminophen Toxicity, University of Alabama at Birmingham EM Residency Grand Rounds, Birmingham, AL	Aug 2017
Toxic Alcohols, , University of Alabama at Birmingham Anesthesia Residency Grand Rounds, Birmingham, AL	Aug 2017
Alcohol Withdrawal in the ED, University of Alabama at Birmingham EM Residency Grand Rounds, Birmingham, AL	Jun 2017
Snake Envenomations for Orthopedic Surgeons, University of Alabama at Birmingham Hand Fellowship Grand Rounds, Birmingham, AL	May 2017
Toxicology A to Z, University of Alabama at Birmingham EM Residency Grand Rounds, Birmingham, AL	Apr 2017
Toxic Alcohols, University of Alabama at Birmingham EM Advanced Practice Providers, Birmingham, AL	Apr 2017
Salicylate Toxicity, University of Alabama at Birmingham EM Residency Grand Rounds, Birmingham, AL	Apr 2017
Opiates in the ED University of Alabama at Birmingham EM Residency Grand Rounds, Birmingham, AL	Mar 2017
Toxic Alcohols University of Alabama at Birmingham EM Residency Grand Rounds, Birmingham, AL	Dec 2016
Black, Blue, Green, and In between University of Alabama at Birmingham EM Residency Grand Rounds, Birmingham, AL	Nov 2016
Emerging Drugs of Abuse University of Alabama at Birmingham EM Residency Grand Rounds, Birmingham, AL	Oct 2016
Inhaled Toxins University of Alabama at Birmingham EM Residency Grand Rounds, Birmingham, AL	Aug 2016
Neuroleptics & Anticonvulsants University of Alabama at Birmingham EM Residency Grand Rounds, Birmingham, AL	Aug 2016
Acetaminophen Toxicity University of Alabama at Birmingham EM Residency Grand Rounds, Birmingham, AL	Apr 2016
Caustics & Hydrocarbons University of Alabama at Birmingham EM Residency Grand Rounds, Birmingham, AL	Jan 2016
Toxic EKGs University of Alabama at Birmingham EM Residency Grand Rounds, Birmingham, AL	Dec 2015
Salicylate Toxicity University of Alabama at Birmingham EM Residency Grand Rounds, Birmingham, AL	Nov 2015

Urine Drug Screens Case Conference University of Alabama at Birmingham EM Residency Grand Rounds, Birmingham, AL	Sep 2015
Opiates in the ED University of Alabama at Birmingham EM Residency Grand Rounds, Birmingham, AL	Aug 2015
Pharmaceutical Additives, Emory University EM Residency Grand Rounds, Atlanta, GA	May 2015
Opioid Toxicity, Emory University EM Residency Grand Rounds, Atlanta, GA	Jan 2015
Legal Highs & Drugs of Abuse, Pediatrics/Psychiatry Grand Rounds, Children's Healthcare of Atlanta, Atlanta, GA	Dec 2014
Drugs of Abuse, Emory University Pediatric EM Fellowship Grand Rounds, Atlanta, GA	Sep 2014

Clinical Activities or Innovations (specialty certification, professional licenses, practice activities, clinical innovations, technical and other scientific innovations)

List, recertification status

Date  
Awarded

#### Ongoing Studies: Principal Investigator

Ophirex Varespladib OPX-PR-3 Phase 2 Clinical Trial for Snakebites – TGH/USF Site

AcetaSTAT – Acetaminophen Adduct Clinical Trial – TGH/USF Site

SPI Follow-up Timing Study -Quantification of Efforts and Barriers to Efficiency

Incidence of Reported Alcohol-Based Hand Sanitizer Ingestion throughout Florida amidst the Coronavirus Pandemic (COVID-19)

Ivermectin Use Before and During COVID-19

#### Ongoing Studies: Co-Investigator

Furoscix Real-World Evaluation for Decreasing Hospital Admission in Heart Failure: FREEDOM-HF Trial. Role: Sub-Investigator. 2021-Present

- scPharmaceuticals, Inc. industry study using the Furoscix On-Body Infusor (IND 118919) to evaluate resource utilization costs for subjects using an on-body device delivering furosemide as an outpatient vs IV furosemide in a <72hr hospital admission.

CTHN-0099 (ED-INNOVATION RCT)

Role: Co-Investigator. 2020-Present

- NIDA grant comparing oral buprenorphine to injection/depot buprenorphine use in patients with opioid abuse disorder discharged from the emergency department.

#### Collaborator

Red Tide Respiratory Effects in Children – R03 Application with PI – Catherine Bulka, PhD

#### Closed/Completed Studies: Principle Investigator

Closed/Completed Studies: Co-Investigator

## SCHOLARLY ACTIVITY

Scholarly Activity (grant history)

A) Current Grants

B) Past Grants

### Peer Reviewed Publications

Doyle W N, Dumas K, Arnold J K (October 18, 2023) A Case of Brodifacoum-Induced Epiglottitis. *Cureus* 15(10): e47286. doi:10.7759/cureus.47286

Coble N, Mulay P, Funk A, Arnold J, Wiese M. *Notes from the Field: Coagulopathy Associated with Brodifacoum Poisoning - Florida, December 2021*. *MMWR Morb Mortal Wkly Rep* 2022;71:1288-1290. DOI: <http://dx.doi.org/10.15585/mmwr.mm7140a5>

Cantrell C, Costers V, Wilson C C, et al. (September 05, 2022) Refractory Methemoglobinemia Secondary to Topical Dapsone With Subsequent Autoimmune Hemolytic Anemia. *Cureus* 14(9): e28811. doi:10.7759/cureus.28811

Hanback S, Slattery A, McGwin G, Arnold J. (2021) Association of Daily High Temperatures with Increased Snake Evenomations: A Case Crossover Study". *Toxicon*.

Arnold JK, Borger J, Nappe TM. Poison Control. [Updated 2019 Feb 2] StatPearls [Internet]. Treasure Island (FL): StatPearls Publishing; 2018 Jan-. Available from <http://www.ncbi.nlm.nih.gov/books/NBK537316/> PubMed PMID:30726001.

Chapman J, Arnold JK. Reye Syndrome. 2018 Dec 14. StatPearls [Internet]. Treasure Island (FL): StatPearls Publishing; 2018 Jan-. Available from <http://www.ncbi.nlm.nih.gov/books/NBK526101/> PubMed PMID: 30252357.

Crader MF, Arnold JK. Warfarin Drug Interactions. 2018 Dec 14. StatPearls [Internet]. Treasure Island (FL): StatPearls Publishing; 2018 Jan-. Available from <http://www.ncbi.nlm.nih.gov/books/NBK441964/> PubMed PMID: 28722993

Kasper AM, Ridpath AD, Gerona RR, Cox R, Galli R, Kyle PB, Parker C, Arnold JK, Chatham-Stephens K, Morrison MA, Olayinka O, Preacely N, Kieszak SM, Martin C, Schier JG, Wolkin A, Byers P, Dobbs T. Severe illness associated with reported use of synthetic cannabinoids: a public health investigation (Mississippi, 2015). *Clin Toxicol (Phila)*. 2018 Jul 10:1-9. doi: 10.1080/15563650.2018.1485927 PubMed PMID: 29989463

Rivera JV, Vance EG, Rushton WF, Arnold JK. Novel Psychoactive Substances and Trends of Abuse. *Crit Care Nurs Q*. 2017 Oct/Dec;40(4):374-382. doi: 10.1097/CNQ.000000000000174. Review. PubMed PMID: 28834859.

Kasper AM, Ridpath AD, Arnold JK, Chatham-Stephens K, Morrison M, Olayinka O, Parker C, Galli R, Cox R, Preacely N, Anderson J, Kyle PB, Gerona R, Martin C, Schier J, Wolkin A, Dobbs T. Severe Illness Associated with Reported Use of Synthetic Cannabinoids - Mississippi, April 2015. *MMWR Morb Mortal Wkly Rep*. 2015 Oct 9;64(39):1121-2. doi: 10.15585/mmwr.mm6439a7. PubMed PMID: 26447715.

Arnold J. Hydrofluoric Acid Burn. MedEdPORTAL Publications; 2015. Available from:<https://www.mededportal.org/publication/10127> [http://dx.doi.org/10.15766/mep\\_2374-8265.10127](http://dx.doi.org/10.15766/mep_2374-8265.10127)

Schwartz MD, Trecki J, Edison LA, Steck AR, Arnold JK, Gerona RR. A Common Source Outbreak of Severe Delirium Associated with Exposure to the Novel Synthetic Cannabinoid ADB-PINACA. *J Emerg Med*. 2015 May;48(5):573-80. doi: 10.1016/j.jemermed.2014.12.038. Epub 2015 Feb 26. PubMed PMID: 25726258.

#### Peer Reviewed Case Reports, Technical Notes, Letters

Lewis, N., DeVore, B., Gaines L., Arnold J.K. (2021). Carbon monoxide poisoning with concomitant mucosal injury and chemical pneumonitis using sulfuric and formic acids in a self-harm attempt. *Cureus*, 13(9). PubMed PMID: 34660092

Rushton W, Rivera J, Arnold J. Utilization of Thromboelastograms in Management of Crotalus adamanteus Envenomation. *Clin Tox*. 2020. DOI 10.1080/15563650.2020.1788053.

Arnold J, Barlotta K. Young Woman with Thigh Wound and Rash. *Ann Emerg Med*. 2018 Nov;72(5):615-626. doi: 10.1016/j.annemergmed.2018.06.005. PubMed PMID: 30342733.

Arnold J, Morgan B. Management of Lead Encephalopathy with DMSA After Exposure to Lead-Contaminated Moonshine. *J Med Toxicol*. 2015 Dec;11(4):464-7. doi: 10.1007/s13181-015-0493-9. PubMed PMID: 26245877; PubMed Central PMCID: PMC4675610.

Geller R, Lowry L, Arnold J, Kirkland K. (2014) Pediatric Environmental Health Specialty Unit (PEHSU): Recommendations Related to Health Effects from Chinese Drywall Revised.[http://www.pehsu.net/documents/drywall\\_factsheet\\_professional.pdf](http://www.pehsu.net/documents/drywall_factsheet_professional.pdf)

Centers for Disease Control and Prevention (CDC). Notes from the field: Severe illness associated with synthetic cannabinoid use - Brunswick, Georgia, 2013. *MMWR Morb Mortal Wkly Rep*. 2013 Nov 22;62(46):939. PubMed PMID: 24257204; PubMed Central PMCID: PMC4585372.

Books, Textbooks, Chapters (list from earliest to most recent)

Neal McDonald, Arnold, Justin. "Ch 14.8: Delayed presentation and conservative management of an intraarterial injection of crushed amphetamine/dextroamphetamine salts". *Toxicology Cases for the Clinical and Forensic Laboratory*. First edition by Ketha, Hema and Garg, Uttam. Elsevier, 2020, pp 243-245. ISBN 9780128158463

Papers in Press (list from earliest to most recent)

Invited Publications

EMPulse – Florida College of Emergency Physicians. Stott M, Ubani C, Funk A, Arnold J. "

USF Emergency Medicine Blog. Priddy W, Stritch J, Eid E, Lazcano A, Arnold J. "Red on Yellow, or "Red on Black?". <https://www.usfemergencymedicine.org/blog/red-on-yellow-or-red-on-black> September 1, 2021.

Published and Unpublished Abstracts & Poster Presentations

Arnold J. Prolonged central nervous system depression and neurologic findings in an adolescent after ingestion of a moderate perampanel ingestion, EAPCCT 2024, Munich Germany.

Arnold J, Doyle N, Shur T, Dean D. Healthcare Facility Follow-up Call Metrics: An Analysis of Call Components and External Influences Within a Single Poison Center, NACCT 2023, Montreal Canada

Lewis N, Lewis L, Arnold J. Ivermectin Use Patterns and Outcome during COVID 19 in a Statewide Poison Network. *Presented at NACCT 2023, Montreal, Canada*

Nelson S, Arnold J, Funk A. Characterization of Benazepril Ingestions Reported to a Regional Poison Center Network. *Presented at NACCT 2023, Montreal, Canada*

Weekes S, Arnold J. Neurological Effects on Adolescents Exposed to Horse Conch. *Presented at NACCT 2023, Montreal, Canada*

Shah T, Arnold J. Tolerance of an Enteral Bupivacaine Exposure in an Infant with a Cardiac Condition. *Presented at NACCT 2023, Montreal, Canada*

The Evolution of Frequently Asked Questions during the COVID-19 Global Pandemic. *Presented at NACCT 2022, San Francisco, CA.*

Funk A, Coble N, Carroll T, Weekes S, Arnold J. Successful Organ Transplantation After Brodifacoum Poisoning. *Presented at NACCT 2022, San Francisco, CA.*

Douge J, Funk A, Arnold J. Alerting Healthcare Providers During a Cluster of Coagulopathy Associated with Synthetic Cannabinoid Use. Presented at *NACCT 2022, San Francisco, CA*.

Douge J, Funk A, Arnold J. Vitamin K Inventory Assessment During Recent Cluster of Coagulopathy Associated with Synthetic Cannabinoids. Presented at *NACCT 2022, San Francisco, CA*.

Doyle W, Arnold J. Epiglottitis Following Exposure to Brodifacoum-Contaminated Synthetic Cannabinoids. Presented at *NACCT 2022, San Francisco, CA*.

Dean D, Funk A, Arnold J. Variations in Toxic Alcohol Lab Testing in Practices Across America's Poison Centers. Presented at *NACCT 2022, San Francisco, CA*.

Davies B, Arnold J. Deep Vein Thrombosis in the Setting of Coagulopathy Associated with Contaminated Synthetic Cannabinoid Use. Presented at *NACCT 2022, San Francisco, CA*.

Costers V, Arnold J. Oleander Ingestion... A Growing Trend? *Florida Symposium by the Sea 2020*.

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Rushton W, Rozier B, Arnold J. Parenteral vs Enteral N-acetylcysteine in Adolescent Acetaminophen Poisoned Patients. *NACCT 2019 Nashville, TN*

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Beckedorf J, Arnold J. Atraumatic Tension Pneumocephalus Associated with Squamous Cell Carcinoma of the Scalp: An Uncommon Cause of Ataxia & Frequent Falls. *EMerald Coast Conference, Destin 2019, FL*

Foster, B, Arnold J, Rushton W. Combative Agitation Secondary to Anti-Cholinergic Effects of Diphenhydramine Overdose Relieved via Foley. *EMerald Coast Conference 2019, Destin, FL*



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Vance E, Arnold J. Supratherapeutic digoxin concentrations without cardiac manifestations. *EAPCCT 2019, Naples, Italy.*

Rushton W, Arnold J. Implementation of a protocol driven Crotalinae Envenomation Unit. *EAPCCT 2019, Naples, Italy.*

Arnold J, Rushton W. The Mineral Miracle Disaster: Accidental poisoning after use of 28% sodium chlorite solution resulting in methemoglobinemia and mild hemolytic anemia. (2018) North American Congress of Clinical Toxicology (NACCT) Abstracts 2018, Clinical Toxicology, 56:10, 941, DOI: 10.1080/15563650.2018.1506610. *Presented at NACCT 2018.*

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Arnold J, Rushton W. Delayed Presentation of Intraarterial Injection of Crushed Amphetamine/Dextroamphetamine Treated with Conservative Management. (2017) North American Congress of Clinical Toxicology (NACCT) Abstracts 2017, Clinical Toxicology, 55:7, 710, DOI: 10.1080/15563650.2017.1348043. *Presented at NACCT 2017.*

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Arnold JK, Rushton WF. Hyperglycemia Without Evidence of Acute Pancreatitis in a Patient with Massive Metformin Overdose. *Not published, but presented at SEC ACEP 2017. (Initially at ACMT 2016).*

Arnold, J. Manifestations of Burow's Solution (Aqueous Solution of Aluminum Acetate) Administered via Percutaneous Gastrostomy Tube. *Not Published, but presented at SEC ACEP 2017 (Initially at MENATox 2017).*

Powell, S, Simmons T, Arnold J, Rushton W. Severe Contact Dermatitis Secondary to Copper-Infused Fabric. *Not published, but presented at SEC ACEP 2017 (Initially at MENATox 2017).*

Arnold, J, Rushton W. Early Intraventricular Conduction Delay & Junctional ST Depression Following a Massive Acetaminophen Overdose. *Not published, but presented at SEC ACEP 2017 (Initially at MENATox 2017).*

Arnold J, Rushton W. Resurgence of Propylhexedrine Abuse as an Inexpensive & Legal Alternative to Methamphetamine. *Not published, but presented at SEC ACEP 2017 (Initially at EAPCCT 2016).*

Arnold, J, Rushton, W. Inconsistency of radiopaque iron tablets on serial abdominal x-rays after intentional iron overdose. (2017) Abstracts from the 2017 American College of Medical Toxicology (ACMT) Annual Scientific Meeting. J Med Toxicol, 13:3, 41, DOI 10.1007/s13181-017-0599-3. *Presented at ACMT 2017.*

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Powell, S, Simmons T, Arnold J, Rushton W. Severe Contact Dermatitis Secondary to Copper-Infused Fabric. *Not published, but presented at MENATox 2017.*

Rushton W, Rozier B, Arnold J. A Poison Center's Experience with Pediatric Exposure to Novel Anticoagulants. (2016) NACCT Abstracts 2016, Clinical Toxicology, 54:8, 704, DOI: 10.1080/15563650.2016.1197486. *Presented at NACCT 2016.*

Arnold, J, Rushton W. Propylhexidine Abuse. Chest Pain and Sinus Tachycardia: Case Report. (2016) 36th International Congress of the European Association of Poisons Centres and Clinical Toxicologists (EAPCCT) 24-27 May, 2016, Madrid, Spain, Clinical Toxicology, 54:4, 449, DOI: 10.3109/15563650.2016.1165952. *Presented at EAPCCT 2016.*

Rushton W, Arnold J. Rebound hepatotoxicity following successful treatment of acetaminophen overdose. (2016) 36th International Congress of the European Association of Poisons Centres and Clinical Toxicologists (EAPCCT) 24-27 May, 2016, Madrid, Spain, Clinical Toxicology, 54:4, 435, DOI: 10.3109/15563650.2016.1165952. *Presented at EAPCCT 2016.*

Powell S, Rushton W, Arnold J. Efficacy of Crotalidae Polyvalent Immune Fab Antivenom with Delayed Administration. (2016) 36th International Congress of the European Association of Poisons Centres and Clinical Toxicologists (EAPCCT) 24-27 May, 2016, Madrid, Spain, Clinical Toxicology, 54:4, 509-510, DOI: 10.3109/15563650.2016.1165952. *Presented at EAPCCT 2016.*

Arnold JK, Rushton WF. Hyperglycemia Without Evidence of Acute Pancreatitis in a Patient with Massive Metformin Overdose. (2016) Abstracts from the 2016 American College of Medical Toxicology (ACMT) Annual Scientific Meeting. J Med Toxicol, 12:3, 42-43m DOI 10.1007/s13181-016-0538-8. *Presented at ACMT 2016.*

Farrell N, Arnold J, Anwar M, Lopez G, Kazzi Z. Persistent Hypokalemia Despite Aggressive Potassium Replacement Following a Hydroxychloroquine Overdose. (2015) 2015 Annual Meeting of the North American Congress of Clinical Toxicology (NACCT), Clinical Toxicology, 53:7, 727 DOI: 10.3109/15563650.2015.1071025. *Presented at NACCT 2015.*

Arnold JK, Ragon ST. Parachuting a Compounded Transdermal Analgesic Cream: A Leap of Faith. (2014) 2014 Annual Meeting of the North American Congress of Clinical Toxicology (NACCT), Clinical Toxicology, 52:7, 731, DOI: 10.3109/15563650.2014.940163. *Presented at NACCT 2014.*

Arnold JK, Morgan BW. Succimer vs CaNa<sub>2</sub> EDTA for Lead Encephalopathy in Two Individuals Exposed to Lead-Contaminated Moonshine. (2014) 2014 Annual Meeting of the North American Congress of Clinical Toxicology (NACCT), Clinical Toxicology, 52:7, 796, DOI: 10.3109/15563650.2014.940163. *Presented at NACCT 2014.*

Tully JS, Arnold JK, Hon S. Neurologic Complication of a Massive Acetaminophen Overdose in a Toddler. (2014) 2014 Annual Meeting of the North American Congress of Clinical Toxicology (NACCT), Clinical Toxicology, 52:7, 796, DOI: 10.3109/15563650.2014.940163. *Presented at NACCT 2014.*

Other Research and Creative Achievements

(If applicable) Only include patents that have received a number

## SERVICE

### Service – National

(INTERNATIONAL) Interstate Disaster Medical Collaborative (IDMC) Volunteer Physician Expert	2023-Present
Southern Regional Disaster Response System – HHS Region IV	2022-Present
Accreditation Committee – American Association of Poison Control Centers	2020-Present
Media Content Review Committee - American Association of Poison Control Centers	2019-Present
Public Health Committee - American Association of Poison Control Centers	2018-Present
Abstract Reviewer - American College of Medical Toxicology Research Committee	2018-Present
Abstract Review - North American Congress of Clinical Toxicology	2016-Present
Needs Assessment Committee - American College of Medical Toxicology	2016-2019
Radiation Section - American College of Medical Toxicology	2014-2015
Radiation IND National Framework Epi Workgroup – CDC	2014-2015
Young Physicians Committee - American College of Osteopathic Emergency Medicine Physicians	2012-2015
Board of Directors - American College of Osteopathic Emergency Medicine Physicians	2011-2012
National President-Elect, President, and Past President of the Resident Chapter - American College of Osteopathic Emergency Medicine Physicians	2010-2013
Board of Directors - American College of Osteopathic Emergency Medicine Physicians	2007-2008
National President and Past President of the Student Chapter - American College of Osteopathic Emergency Medicine Physicians	2007-2009
National Secretary of the Student Chapter – American College of Osteopathic Emergency Medicine Physicians	2006-2007

## Service - State

Testify for Florida Senate on S. 1698 (2024) sponsored by Senator Burton on Hemp Extracts packaging, manufacture, sales.	2024
Press release on Florida Senate bill for hemp packaging with FL Agriculture Secretary Wilton Simpson, Senator Burton. At Tampa General Hospital	2023
Coordinated investigation of brodifacoum-contaminated synthetic cannabinoid outbreak in Hillsborough County, FL. Over 50 affected individuals. Partnership with Dept of Health, NMS labs, DEA, and others.	2021-2022
Directed and coordinated with other Florida Poison Centers taking over the Florida DOH COVID-19 Call Center for public and healthcare calls. Hired additional staff and participated in training, quality assurance, and daily meetings with DOH	2020-2021
Gulf Coast High Intensity Drug Threat Assessment Task Force (Alabama)	2016-2019
Created a state-wide Naloxone for Law Enforcement (ALIENT) program to educate law enforcement officers on the use of naloxone. This was required for all law enforcement officers in Alabama.	

## Service - University

Mock Interviews for MS4s applying to Emergency Medicine	2020
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## Service - Hospital

COVID-19 Task Force, Poison Control Representative, Tampa General Hospital	2020-2021
Pharmacy & Therapeutics Committee, Tampa General Hospital	2019-Present
Created & Directed a Medical Toxicology Consultation Service, University of Alabama at Birmingham	2016-2019
Emergency Preparedness Committee, University of Alabama at Birmingham	2016-2019
Pharmacy & Therapeutics Committee, University of Alabama at Birmingham	2015-2019
Development of Snakebite Clinical Decision Unit Observation Protocol, University of Alabama at Birmingham	2017
	2017

## Service – Poison Control Center

Coordinated and Developed Online PIP Training Modules as a FPIC Network Effort	2022
Led a Florida Department of Health initiated COVID-19 Hotline. Hired 18 FTEs to answer questions on COVID-19, testing, vaccination, and adverse drug reactions.	2020-2021
Member of the Medical Director's Advisory Council, American Association of Poison Control Centers	2016-Present

Participated in twice-annual Medical Director's Meetings (Spring/Fall) of the American Association of Poison Control Centers	2016-Present
Participated and coordinated the 7-year poison center re-accreditation process, Florida Poison Information Center Tampa	2020
Revised and improved a medical toxicologists and specialist in poison information quality assurance program, Florida Poison Information Center Tampa	2019
Obtained Grant Funding with the Alabama Department of Public Health (ADPH) and the Center for Emergency Preparedness (CEP) with the Centers for Disease Control and Prevention. Grant number: NU90TP921877-01-00. Part of the Public Health Preparedness Program Cooperative Agreement, 7/1/2017-6/30/2018, renewed in 2018 and 2019, Regional Poison Control Center at Children's of Alabama	2017-2019
Created 12 poisoning clinical guidelines for specialists in poison information to use in telephone triage and management of home callers and hospitalized patients, Regional Poison Control Center at Children's of Alabama	2016-2019
Forged a partnership with the Ruffner Mountain Nature Preserve to facilitate healthcare worker education on snake envenomations, Regional Poison Control Center at Children's of Alabama	2015-2019
Led acquisition, installation, and data conversion of Poison Center EMR from ToxiCall to ToxSentry, Regional Poison Control Center at Children's of Alabama	2017-2018
Participated and coordinated the poison center 7-year re-accreditation process, Regional Poison Control Center at Children's of Alabama	2018
Revised and improved a medical toxicologists and specialist in poison information quality assurance program, Regional Poison Control Center at Children's of Alabama	2017
Implemented a text to caller quality assurance mechanism for callers to the poison control center (increasing responses from 50/year to 1,178 in 2018), Regional Poison Control Center at Children's of Alabama	2017

#### Community Service & Education

Media Interview, Tampa Bay News 9 Television, Senate bill S. 1696 on control of hemp products.	Jan 2024
Media Interview, Out and About with John Couris, TGH Media Services	Jul 2023
Media Interview, USF, Tampa General studies ivermectin, other drugs to treat COVID, Tampa Bay Times, Tampa, FL (Newspaper/Online Media) <a href="https://www.tampabay.com/news/health/2022/02/05/usf-tampa-general-studies-ivermectin-other-drugs-as-covid-treatment/">https://www.tampabay.com/news/health/2022/02/05/usf-tampa-general-studies-ivermectin-other-drugs-as-covid-treatment/</a>	Feb 2022
Media Interview, Red Tide isn't just bad for fish, as Tampa Bay man learned in the ER, Tampa Bay Times, Tampa, FL (Newspaper/Online Media): <a href="https://www.tampabay.com/news/environment/2021/07/29/red-tide-isnt-just-bad-for-fish-a-st-petersburg-man-learned-that-in-the-er/">https://www.tampabay.com/news/environment/2021/07/29/red-tide-isnt-just-bad-for-fish-a-st-petersburg-man-learned-that-in-the-er/</a>	July 2021

Media Interview, Children Are Consuming Hand Sanitizer. Here's How to Keep Them Safe, New York Times, New York, NY (Newspaper/Online Media)	Feb 2021
Media Interview, Naloxone Use in Adolescents (Florida School Naloxone Bill), Spectrum Bay News 9, Tampa, FL (Television)	Nov 2019
Media Interview, What Not to Do if You're Bitten by a Snake, Channel 42 CBS Birmingham, Birmingham, AL (Television)	May 2019
Media Interview, Interview to Walk to End Heroin Event, CityLifestyle Reporter the Kaleidoscope, Birmingham, AL (Newspaper)	Feb 2019
Media Interview, Do You Have a Spider Bite? These 7 Photos Can help You Tell, Women's Health Magazine, Birmingham, AL (internet article <a href="https://www.prevention.com/health/spider-bite-pictures">https://www.prevention.com/health/spider-bite-pictures</a> )	Feb 2018
Media Interview, E-cigarette Dangers, Channel 33/40 ABC Birmingham, Birmingham, AL (Television)	Nov 2017
Media Interview, Law Enforcement Naloxone Use, Channel 13 Birmingham, Birmingham, AL (Television)	Jun 2017
Media Interview, Copperhead Snakebites, Channel 6 FOX Birmingham, Birmingham, AL (Television)	May 2017
COACHES (Children's of Alabama Community Health Education & Simulation) development of poisoning teaching case for community use	2017
Media Interview, Snakebites, Channel 13 Birmingham, Birmingham, AL (Television)	May 2017
Media Interview, VX Toxicity (In Response to Kim Jong Nam Poisoning), AP News/Jay Reeves (Television)	Feb 2017

#### Membership in Professional & Scientific Societies

American College of Emergency Physicians (ACEP)	2009-Present
American College of Medical Toxicology (ACMT)	2013-Present
American Academy of Clinical Toxicology (AACT)	2013-Present
American Association of Poison Control Centers (AAPCC)	2013-Present
American Society for Addiction Medicine (ASAM)	2014-2020
American Osteopathic Association	2005-2013
American College of Osteopathic Emergency Physicians	2006-2013

#### Editorial Positions / Manuscript Reviewer

Wilderness & Environmental Medicine Reviewer	2022
TOXINZ Editorial Board Member	2019-Present
WestJEM Toxicology Reviewer (average 15 reviews/year)	2016-Present

Annals of Pharmacotherapy Reviewer ad hoc	2019-Present
Clinical Toxicology Review ad hoc	2017-Present
MedEdPortal Reviewer ad hoc	2017
American Journal of Addiction Reviewer ad hoc	2017

#### Outbreak Investigations

Hillsborough County, FL Brodifacoum-contaminated Synthetic Cannabinoids Outbreak	2021-2022
Mississippi MAB-CHMINACA Synthetic Cannabinoid Outbreak, CDC	2015
Mozambique Pombe Outbreak, CDC	2015
Ebola Outbreak, Domestic Clinical Inquiries Epidemiology Team, CDC EOC	2014
Bihar, India, Acute Neurologic Syndrome Outbreak, CDC	2013-2014

#### Professional Development, Training, and Additional Education

North American Congress of Clinical Toxicology (NACCT), Montreal, Canada	2023
Advanced Trauma Life Support (ATLS) Refresher	2023
Poison Center Leadership Meeting (PCLM) – San Antonio, TX	2023
Middle Eastern North Africa Toxicology (MENATOX), Abu Dhabi, UAE	2023
High Reliability Training – Physician & Leadership Retreat, Tampa General Hospital, Tampa, FL	2022
North American Congress of Clinical Toxicology (NACCT), San Francisco, CA	
Florida Osteopathic Medical Association (FOMA) Virtual Annual Convention, Live Stream	2022
North American Congress of Clinical Toxicology (NACCT), Live Stream	2021
Emergency Cardiology Symposium: Tough Dysrhythmias, Virtual University of Maryland Department of Emergency Medicine.	2021
Strike Back Virtual, BTG Specialty Pharmaceuticals	2020
North American Congress of Clinical Toxicology (NACCT), Live Stream	2020



Venom Week 2020, Gainesville, FL	2020
North American Congress of Clinical Toxicology (NACCT), Nashville, TN	2019
Advanced Trauma Life Support Provider Course, University of South Florida CAMLS, Tampa, FL	2019
Advanced Cardiac Life Support Provider Course	2019
American College of Medical Toxicology (ACMT), San Francisco, CA	2019
North American Congress of Clinical Toxicology (NACCT), Chicago, IL	2018
American College of Emergency Physicians (ACEP), San Diego, CA	2018
Middle Eastern North African Toxicology (MENATox), Muscat, Oman	2018
Southeastern Emergency Conference of the American College of Emergency Physicians (SEC ACEP), Destin, FL	2018
UAB Junior Faculty Development Workshop, Birmingham, AL	2018
European Association of Poison Control Centers and Toxicologists (EAPCCT), Basel, Switzerland	2017
American College of Medical Toxicology (ACMT), San Juan, Puerto Rico	2017
Middle Eastern North African Toxicology (MENATox), Muscat & Sohar, Oman	2017
GRD 702 (Grant & Fellowship Course), University of Alabama at Birmingham, Birmingham, AL	2016
American College of Medical Toxicology Board Review Course, Salt Lake City, UT	2016
European Association of Poison Control Centers and Toxicologists (EAPCCT), Madrid, Spain	2016
American College of Medical Toxicology (ACMT), Huntington Beach, CA	2016
North American Congress of Clinical Toxicology (NACCT), San Francisco, CA	2015
ASAM Addiction Medicine Board Review, Orlando, FL	2015
High Risk Emergency Medicine (CEME), New York, NY	2015
Research Boot Camp, Emory University, Atlanta, GA	2015

Next Generation Sequencing 1 Day Course, CDC, Atlanta, GA	2015
Virtual Tabletop Exercise (TTX) on Ethylene Glycol, CDC, Atlanta, GA	2015
Nuclear Power Plant Emergency Responder Course, Atlanta, GA	2014
Radiation Awareness Training for CDC Responders, CDC, Atlanta, GA	2014
Epidemiology in Action Course, CDC & Emory University, Atlanta, GA	2014
Radiation Emergency Medicine Course, REAC/TS, Oak Ridge, TN	2014
CBRNE Course, Emory University, Atlanta, GA	2014
Research Boot Camp, Emory University, Atlanta, GA	2014
Learning to be a Better Teacher Workshop, Emory University, Atlanta, GA	2014
Agents of Opportunity for Terrorism Course, CDC/ACMT/ATSDR, TN	2013
Advanced Hazmat Life Support Instructor Course, Georgia Poison Center, Atlanta, GA	2013
Advanced Hazmat Life Support Provider Course, Georgia Poison Center, Atlanta, GA	2013
Level III Ultrasound Certification, Lehigh Valley Health Network, Bethlehem, PA	2013
Advanced Trauma Life Support Provider Course, Allentown, PA	2010
FEMA IS-00800.b National Framework, An Introduction	2010
FEMA IS-00200.a ICS for Single Resources and Initial Action Incidents (ICS-200)	2010
FEMA IS-00700.a National Incident Management System (NIMS)	2009
FEMA IS-00100.a Introduction to the Incident Command System (ICS 100)	2009
Advanced Cardiac Life Support Provider Course, Nova Southeastern University, Ft Lauderdale, FL	2007
Pediatric Advanced Life Support Provider Course, Nova Southeastern University, Ft Lauderdale, FL	2007