

**IN THE UNITED STATES DISTRICT COURT
FOR THE WESTERN DISTRICT OF TENNESSEE
WESTERN DIVISION**

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| UNITED STATES OF AMERICA, |) | |
| |) | |
| Plaintiff |) | CR. No. 23-20191-MSN |
| |) | |
| v. |) | |
| |) | |
| EMMITT MARTIN III, et al., |) | |
| |) | |
| Defendants. |) | |

**UNITED STATES’ NOTICE OF INTENT TO OFFER
HYBRID OR EXPERT WITNESS TESTIMONY REGARDING AUTOPSY AND
MEDICAL EVIDENCE**

The United States provides notice to the defendants that it intends to offer testimony from medical examiner-pathologists Dr. Marco Ross and Dr. Rebecca Folkerth who conducted and consulted on the autopsy of Tyre Nichols. Herein we also provide the same notice for Dr. Mohammad Assaf and Dr. Peter Law, treating and consulting physicians for Mr. Nichols during the course of his hospitalization and Daniel Anderson, the toxicologist with NMS Labs who analyzed blood, urine and tissue samples of Mr. Nichols. These witnesses will testify from their personal observations and knowledge and are therefore primarily fact witnesses for whom no expert designation is necessary. Should they offer opinion testimony that would require notice pursuant to Rule 16(a)(1)(G), the United States provides this “hybrid” and/or expert designation because such witnesses, under limited circumstances, may be considered hybrid witnesses or, if necessary, qualified as expert witnesses.

As explained in the United States’ Notice of Intent to Offer Hybrid or Expert Witness Testimony Regarding Use of Force Issues (RE 142), witnesses who testify about their personal knowledge and observations are fact or lay witnesses, for whom no expert designation is required.

Medical examiners testifying about an autopsy in which they personally participated—as opposed to medical examiners offering a general expert opinion—are often considered fact witnesses, who are not subject to expert disclosure requirements. *Pettaway v. Barber*, No. 2:19-CV-8-ECM-JTA, 2022 WL 19983576, at *2 (M.D. Ala. Apr. 27, 2022); *Boyett v. Cnty. of Washington*, No. 2:04CV1173, 2006 WL 3422104, at *12 (D. Utah Nov. 28, 2006), *aff'd*, 282 F. App'x 667 (10th Cir. 2008).

Rule 16(a)(1)(G), as amended, requires the government to provide a disclosure for each expert witness the government seeks to use containing: “[1] a complete statement of all opinions that the government will elicit from the witness in its case-in-chief, or during its rebuttal to counter testimony that the defendant has timely disclosed under (b)(1)(C); [2] the bases and reasons for them; [3] the witness’s qualifications, including a list of all publications authored in the previous 10 years; and [4] a list of all other cases in which, during the previous 4 years, the witness has testified as an expert at trial or by deposition.” *Id.*

As detailed below, Dr. Marco Ross performed the autopsy on Mr. Nichols. His office subsequently asked noted neuropathologist Dr. Rebecca Folkerth to consult on the case. Dr. Peter Law was a treating physician for Mr. Nichols during his hospitalization at St. Francis. Dr. Mohammed Assaf consulted on the case during that time. Finally, Mr. Daniel Anderson analyzed the blood, urine and tissue samples of Mr. Nichols in a toxicology screening.

Dr. Ross

Dr. Marco Ross, currently the Chief Medical Examiner for the West Tennessee Regional Forensic Center will testify, consistent with his report previously provided in discovery as to the manner and cause of death of decedent Tyre Nichols. Dr. Ross is a Board-Certified Forensic Pathologist with over 20 years of experience in his field. He graduated from Tulane University as

a Doctor of Medicine in 1985. His educational background, professional and academic appointments, professional society memberships and list of publications are included in his curriculum vitae. As a forensic pathologist, Dr. Ross is an expert in investigating and evaluating cases of sudden, unexpected, suspicious and violent death as well as other specific classes of death defined by law. Dr. Ross has testified as an expert or person with specialized knowledge in the field of forensic pathology on numerous occasions over the course of his career and has performed several thousand autopsies.

His pathological diagnoses as set forth in his report were as follows:

- I. Blunt force injuries of the head and neck
 - A. Multiple cortical contusions
 - B. Rotational/torsional injury of the brain
 1. Hemorrhagic tears of the parenchyma
 2. Axonal injury
 - C. Cerebral edema and acute hypoxic-ischemic changes
 - D. Subscalpular and subgaleal hemorrhages
 - E. Intramuscular hemorrhages
 - F. Abrasions and contusions
- II. Blunt force injuries of the torso
 - A. Abrasions and contusions
 - B. Intramuscular hemorrhages of the chest and back
- III. Blunt force injuries of the extremities
 - A. Abrasions and contusions
 - B. Diffuse intramuscular hemorrhages of the extremities
- IV. Status post cardiopulmonary arrest and resuscitation
 - A. Hepatic necrosis
 - B. Pulmonary edema

Dr. Ross will offer testimony that the cause of death for Mr. Nichols was blunt force injuries of the head. In his testimony, Dr. Ross will be expected to discuss the evidence of injury to Mr. Nichols, the findings of the external exam of the body, the findings from the internal examination, and a summary and interpretation of those findings. Dr. Ross will use photographs taken during the autopsy as aids to his testimony. These have been previously disclosed. He will also use diagrams prepared during the course of his work on the case. These have also been

disclosed. Dr. Ross can also be expected to testify that he requested a consult with Dr. Rebecca Folkerth, a forensic neuropathologist as part of his work in this case. Dr. Ross' CV is attached as Exhibit 1. A list of cases in which he has testified as an expert in the previous four years is attached as Exhibit 2. The signed written reports of autopsy examination, consultation report, and toxicology report can be found at Bates No. 5900-5954. These reports from Dr. Ross and Dr. Folkerth and Mr. Anderson contain their findings and conclusions.

Dr. Folkerth

The West Tennessee Regional Forensic Center sought a consultation with Dr. Rebecca Folkerth, MD. Dr. Folkerth subsequently conducted her own independent analysis and issued a report of her findings. Dr. Folkerth is a Neuropathologist and City Medical Examiner in the Office of Chief Medical Examiner, New York City. She is also an Associate Clinical Professor of Forensic Medicine, New York University Grossman School of Medicine. She has worked in the field of neuropathology since 1990. Dr. Folkerth holds a Bachelor of Science from Indiana University and a medical degree from the University of Louisville School of Medicine. She completed a residency in anatomic pathology at New England Medical Center and did fellowships in pathology and neuropathology at Harvard Medical School and Boston Children's Hospital, respectively.

Dr. Folkerth began working as a pathologist at Brigham and Women's Hospital in 1991, focusing on surgical pathology and neuropathology. In 2009, she became the director of the neuropathology division and began running the neuropathology training program for not only Brigham and Women's Hospital, but also Boston Children's Hospital and Beth Israel-Deaconess Medical Center. Dr. Folkerth has also served as an associate professor of pathology at Harvard Medical School, a consultant in pathology at Boston Children's Hospital, and a consultant in

medical oncology at Dana-Farber Cancer Institute.

Dr. Folkerth currently focuses on forensic neuropathology. Her office performs about 5,000 autopsies a year. She autopsies the brain and nervous system for about 700 to 900 cases per year. She has been practicing for over 25 years, has performed hundreds of postmortem examinations of adults, infants, and children, and has written over 100 peer reviewed articles and over 15 chapters for medical textbooks dealing with neuropathology.

Given her specialized knowledge of the brain, Dr. Folkerth is often asked to work on complicated cases with abnormalities, cases involving in custody deaths, pediatric deaths, or sudden deaths without witnesses, and cases involving complicated disease-related deaths, such as dementia-related deaths. She has testified as an expert in the field of neuropathology on numerous occasions. She was asked to consult in the Nichols' case by the office of the West Tennessee Regional Forensic Center to help confirm a cause of death.

She will testify, consistent with her report, previously disclosed, regarding her work consulting with the Regional Forensic Center regarding the death of Tyre Nichols. Dr. Folkerth will testify, based upon her training, experience and independent work on the case, that Nichols died as the result of blunt impact injury to the head. His injuries were consistent with having occurred a few days before his death. She observed the presence of subarachnoid bleeding on the brain. Additionally, Nichols had focal hemorrhaging, contusions, and bruises on the front of the brain, including the frontal lobe, which is a common area for such injuries. More significant, however, was the presence of rotational or torsional injuries to the brain.

Dr. Folkerth will testify that torsion can affect consciousness. If repeated or severe enough, torsion can cause hemorrhaging. Nichols had both surface impact bruising and torsional injuries. Tears along Nichols' septum pellucidum were indicative of torsional injuries. Generally,

hemorrhagic tears of white matter tracts are troublesome, as they can cause loss of speech and other body function. The traumatic axonal injuries were confirmed microscopically. Injuries caused by inadequate blood flow and poorly oxygenated cells were secondary to the injuries on the brain. She will provide testimony as to both her microscopic and macroscopic findings.

Dr. Folkerth will testify that part of her job involves determining and differentiating between the primary injuries and the secondary injuries. For example, an injury to the brain may result in bruising and swelling. The brain, however, is in a confined compartment, which decreases blood flow by itself. Eventually, the heart cannot overcome the pressure gradient to push blood up to the swollen brain. If there is decreased blood flow, then there is decreased oxygen, which could result in brain death. The pressure on the brain stem ultimately stops the heart and breathing, resulting in death. The initial injury to the head resulting in brain swelling was the primary injury, whereas the issues associated with lack of blood flow and oxygen were secondary. She will also testify as to the information relied upon in making a determination as to the cause / manner of death. A listing of prior testimony for Dr. Folkerth is included as Exhibit 3. A publication list is attached as Exhibit 4.

Dr. Assaf

Dr. Mohammad Assaf was a consulting physician/neurologist for Mr. Nichols while Nichols was hospitalized at St. Francis from on or about January 7-10, 2023. He received his medical degree in 1982 and has been certified by the American Board of Psychology and Neurology since 1993. He has not testified as an expert or person with specialized knowledge previously. Dr. Assaf will offer testimony as to his observations of Mr. Nichols and as to his analysis of tests run on Mr. Nichols during his hospitalization. In particular, Dr. Assaf will testify that test results for Mr. Nichols indicated brain death on or about January 9, 2023. Dr. Assaf will

also likely testify, based upon his training and experience as set forth in his CV, that an individual with a traumatic brain injury such as Nichols had must receive medical care as soon as possible. Medical care providers should monitor both oxygen and blood supply to the brain. The brain needs oxygen and glucose, which are carried by the blood. If either are taken away, then brain damage could occur. Medical care providers should also monitor swelling of the brain, which could reduce oxygen levels in the brain. Damage to the brain from a lack of oxygen is irreversible.

The consequences of delayed treatment might depend on the cause of the brain damage. Brain bleeding and oxygen deprivation, if not corrected, could result in death. Delayed treatment of a patient with a traumatic brain injury could result in death.

Dr. Assaf will testify that it is considered standard care to conduct a CAT scan or MRI on a patient with a suspected brain injury. Doctors should monitor blood pressure and pulse and make sure the airway is clear. Doctors should also monitor brain pressure. In some cases, brain pressure may be reduced with medicine, but doctors may have to lower pressure by draining fluid with a tube. Every single minute a patient with excessive brain pressure experiences inadequate blood flow and oxygen causes irreversible damage to the brain. Multi-system failure could occur as a result of brain damage. As few as three minutes of oxygen deprivation can cause brain damage.

Medical care providers should work on a patient's breathing right away. A delay in initial resuscitation could affect the mortality rate, especially if someone's heart has stopped. The heart needs to pump blood to provide oxygen to the brain. It is important for medical care providers to know the mechanism of injury. They need to understand the type of injury. For example, they must be able to differentiate between a contusion and a concussion, as treatment may differ. If a patient arrives to the hospital unconscious, it is standard procedure to conduct a CAT scan. However, doctors will often reach out to the family to ask what the patient was doing before, during, or after

the injury to find out what happened. From a physician's standpoint, understanding what caused the injury can be helpful for determining treatment.

After initial imaging, doctors should continue to monitor a patient. Bleeding in the brain that was not apparent in initial imaging may appear after a week. Doctors may not be able to see the bleed at first, but they can see it later, so it is important to conduct subsequent imaging. A patient with a suspected brain injury should be admitted to the hospital and observed. Treatment should not be delayed, as minutes are vital. The prevention of secondary injuries is crucial. EMT and first responders should focus on the airway and the heart. Additionally, they should work to stop bleeding as they move the patient to next care, whether by ambulance or flight to the emergency room.

Dr. Assaf will testify that knowing the mechanism of injury is important. For instance, if a CAT scan for an unconscious patient appears normal, doctors need to know why the patient is unconscious. When a patient such as Mr. Nichols has a traumatic brain injury, doctors should monitor the brain pressure, the breathing and airway, and check for seizures. Electrical seizures may not be seen externally, but can be detected by viewing brain activity. These things are best conducted at a hospital; therefore, it is important first responders get a patient to the hospital as quickly as possible. It is good for a physician to know how an injury occurred. Minutes without adequate care could cause irreversible damage. EMS meets the patient in those first few important minutes. Therefore, EMS needs to know how an injury occurred as well. Dr. Assaf's CV is included as Exhibit 5. A signed summary of his testimony is included as Exhibit 6.

Mr. Anderson

Daniel Anderson is currently employed as a toxicologist with NMS Labs. He received his Bachelor of Science degree in 1988 and his Master of Science degree in 1990. He has over 20 years of experience in the field and has been certified by the American Board of Forensic Toxicology since 2007. He has published and presented extensively on topics in his field. He is a Fellow with the American Academy of Forensic Sciences and a member of the Society of Forensic Toxicologists, among many other professional associations. His CV is attached as Exhibit 7.

In his capacity as a toxicologist with NMS Labs, Dr. Anderson analyzed the blood, urine and tissue samples of Tyre Nichols. He is expected to testify as to how the analysis process works from intake, to examination, to report writing. He will testify as to his findings from the testing performed in this case. His signed report has previously been provided in discovery.

Dr. Law

Dr. Peter Law was the attending physician for Tyre Nichols during his hospitalization at St. Francis in January 2023. Dr. Law received his medical degree from Georgetown University and completed his residency at the University of Tennessee. He is board certified by the American Board of Internal Medicine in the areas of critical care and pulmonary disease. He has published "*Calcium and Magnesium Homeostasis in Aldosteronism: Response to Diuretics.*" P.H. Law, yd Sun, Syamal K Bhattacharya, Karl T Weber, *Journal of Investigative Medicine* 53(1_part_4):266-266. DOI:10.1177/1081558905053001568, May 2023.

Dr. Law will testify as to the treatment and diagnosis provided to Mr. Nichols during his hospitalization. The treatment records have been previously provided in discovery. They can be located beginning at Bates No. 7672. Upon the advice of counsel and despite reasonable efforts from the United States, Dr. Law has declined to sign a summary of testimony. He did electronically

sign the pertinent medical records of treatment from St. Francis.

Nichols was admitted to Saint Francis Hospital on or about January 7, but Dr. Law did not see him until the next morning. Before he arrived at work, nurse practitioner Rachel Love called and told him they received a patient who had been severely beaten, and the police told her she could not talk to the patient's family. Nichols had multiple abrasions over his body as well as bruising and swelling. He was nonresponsive to deep pain stimulation. There was evidence of multi system failure. Cardiopulmonary arrest appeared to have caused the biggest injury to Nichols' kidneys. Traumatic compartment syndrome and rhabdomyolysis were probably contributing factors. Nichols was in extremely bad condition and needed dialysis and a blood transfusion. He was showing signs of renal failure, liver failure, brain injury and shock, but on January 8, he was not clinically dead. Nichols was intubated and breathing over the ventilator, meaning he was breathing to some degree on his own, and he had reflexes. Nichols also had pupillary response, indicating Nichols was not brain dead at the time. Nichols' condition continued to worsen, however, during the course of his hospitalization. Further testing showed the presence of brain hematomas. Medical staff at the hospital ultimately determined Mr. Nichols to be brain dead. He was removed from the ventilator on January 10.

Finally, pursuant to Federal Rule of Criminal Procedure 16(b)(1)(C), the United States reiterates its request that the defendants provide the United States with a written summary of testimony that the defendants intend to use under Rules 702, 703, or 705 of the Federal Rules of Evidence during their case in chief, including the witness's opinions, the basis and reasons for opinions, and the witness's qualifications.

Respectfully submitted,

KEVIN G. RITZ
United States Attorney

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CERTIFICATE OF SERVICE

I, David Pritchard, hereby certify that the on the date below, I electronically filed the foregoing with the Clerk of Court for the Western District of Tennessee via the Electronic File System which sent notification of said filing to defense counsel.

s/David Pritchard
DAVID PRITCHARD
January, 31, 2024

CURRICULUM VITAE

MARCO AURELIO ROSS, M.D.

ADDRESS

West Tennessee Regional Forensic Center
University of Tennessee Health Science Center
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Memphis, TN 38105
Phone: (901) 222-4600
Fax: (901) 222-4645

EDUCATION

1977-1981

Bachelor of Science
Purdue University
West Lafayette, Indiana

1981-1985

Doctor of Medicine
Tulane University
New Orleans, Louisiana

1985-1991

General Surgery Residency
University of South Carolina
Columbia, South Carolina

1988-1989

Hyperbaric Medicine Research Fellowship
University of South Carolina
Columbia, South Carolina

1995-1999

Pathology Residency
University of Vermont
Burlington, Vermont

1999-2000

Forensic Pathology Fellowship
North Carolina Office of the Chief Medical Examiner
and University of North Carolina
Chapel Hill, North Carolina

Curriculum Vitae
Marco A. Ross, M.D.

MILITARY SERVICE

Branch: United States Navy – Medical Corps

Highest Rank: Lieutenant Commander

Achievements and Awards:

Surface Warfare Medical Department Officer
Navy Achievement Medal with Gold Star
Southwest Asia Service Medal with Bronze Star
National Defense Service Medal

Honorable Discharge: July 10, 1995

1981-1985

Armed Forces Health Profession Scholarship Program
(Inactive Reserve)

1985-1991

PRIMUS (Physician Reservists in Medical Universities
and Schools)

1991

Staff Surgeon
Naval Regional Medical Center
San Diego, California

1991-1992

Ship's Surgeon
USS Ranger (CV-61)

1992-1995

Staff Surgeon
Naval Hospital
Lemoore, California

PROFESSIONAL AND ACADEMIC APPOINTMENTS

1985-1990

Resident
Department of Surgery
Richland Memorial Hospital
Columbia, South Carolina

1985-1990

Resident
Department of Surgery
William Jennings Bryan Dorn VA Hospital
Columbia, South Carolina

1990-1991

Chief Resident
Department of Surgery
Richland Memorial Hospital
William Jennings Bryan Dorn VA Hospital
Columbia, South Carolina

1991

Staff Surgeon
Naval Regional Medical Center
San Diego, California

Curriculum Vitae
Marco A. Ross, M.D.

PROFESSIONAL AND ACADEMIC APPOINTMENTS (Continued)

| | |
|-----------|---|
| 1992-1995 | Staff Surgeon Naval Hospital Lemoore, California |
| 1993-1995 | Chairman, Surgical Case Review/Surgical Tissue Review/ Blood Utilization Review Committee Naval Hospital Lemoore, California |
| 1995-1998 | Resident Department of Pathology University of Vermont/Fletcher Allen Health Care Burlington, Vermont |
| 1996-1999 | Clinical Instructor Department of Pathology University of Vermont Burlington, Vermont |
| 1998-1999 | Chief Resident Department of Pathology University of Vermont/Fletcher Allen Health Care Burlington, Vermont |
| 1999-2000 | Fellow Department of Pathology University of North Carolina Hospitals Chapel Hill, North Carolina |
| 1999-2000 | Assistant Chief Medical Examiner North Carolina Office of the Chief Medical Examiner Chapel Hill, North Carolina |
| 1999-2000 | Medical Examiner Orange and Durham Counties State of North Carolina |
| 2000-2002 | Medical Examiner Maricopa County Office of the Medical Examiner Phoenix, Arizona |
| 2002-2007 | Deputy Medical Examiner Spokane County Office of the Medical Examiner Spokane, Washington |
| 2007-2017 | Deputy Chief Medical Examiner Shelby County Medical Examiner's Office West Tennessee Regional Forensic Center Memphis, Tennessee |

Curriculum Vitae
Marco A. Ross, M.D.

PROFESSIONAL AND ACADEMIC APPOINTMENTS (Continued)

| | |
|--------------|--|
| 2017-2020 | Interim Chief Medical Examiner Shelby County Medical Examiner's Office West Tennessee Regional Forensic Center Memphis, Tennessee |
| 2020-Present | Chief Medical Examiner Shelby County Medical Examiner's Office West Tennessee Regional Forensic Center Memphis, Tennessee |
| 2014-Present | Clinical Assistant Professor Department of Pathology and Laboratory Medicine University of Tennessee Health Science Center Memphis, Tennessee |

CERTIFICATIONS

Diplomate, American Board of Pathology
(Anatomic, Clinical, and Forensic Pathology)

LICENSURE

State of Tennessee

PROFESSIONAL SOCIETIES

American Academy of Forensic Science
American Society of Clinical Pathologists
College of American Pathologists
National Association of Medical Examiners

RESEARCH ACTIVITIES

| | |
|-----------|--|
| 1982-1983 | Eosinophilic Responses in Gerbils Infected with <i>Brugia pahangi</i> Tulane University School of Medicine New Orleans, Louisiana |
| 1983 | Topical Diethylcarbamazine Use in Onchocerciasis Armed Forces Institute of Pathology Washington, D.C. |
| 1988-1989 | Effects of Hyperbaric Oxygen on Carcinogenesis in Rats University of South Carolina School of Medicine Columbia, South Carolina |
| 1988-1989 | Ischemic Reperfusion Injury of the Liver University of South Carolina School of Medicine Columbia, South Carolina |

Curriculum Vitae
Marco A. Ross, M.D.

PUBLICATIONS

1. Stingl P, **Ross M**, Gibson DW, Ribas J, Conner DH: A Diagnostic "Patch Test" for Onchocerciasis Using Topical Diethylcarbamazine. *Trans R Soc Trop Med Hyg* 78:254-258, 1984.
2. Stingl P, Pierce PF, Connor DH, Gibson DW, Straesse T, **Ross MA**, Ribas JL: Does Dexamethasone Suppress the Mazzotti Reaction in Patients with Onchocerciasis? *Acta Tropica* 45:77-85, 1988.
3. Bynoe RP, Bell RM, Miles WS, Close TP, **Ross MA**, Fine FG: Complications of Nonoperative Management of Blunt Hepatic Injuries. *J Trauma* 32:308-315, 1992.

ABSTRACTS

1. Katz S, Gary B, **Ross M**, Lammie P: Immunologic Reactivity of Gerbils Acutely Infected with *Brugia pahangi*. *Fed Proc* 42:852, 1983.

PAPERS PRESENTED

1. **Ross MA**, Moore WM, Smith C: Aorticopulmonary Paragangliomas – Case Review of the Literature. Annual Meeting of the South Carolina Chapter of the American College of Surgeons, Greenville, South Carolina, September 12, 1987.
2. **Ross MA**, Bynoe RP: Airway Injuries – A Ten Year Review. Annual Meeting of the South Carolina Chapter of the American College of Surgeons, Spartanburg, South Carolina, January 18, 1991.
3. Harrell D, **Ross M**: A Fatal Case of Histoplasmosis with Colonic Perforation in a Patient with Acquired Immune Deficiency Syndrome (AIDS). Annual Meeting of the American Academy of Forensic Sciences, Anaheim, California, February 17-22, 2020.

SCIENTIFIC EXHIBITS

1. **Ross MA**, Howard ML, Greene FL: The Effect of Hyperbaric Oxygen on the Induction and Growth of Dimethylhydrazine Induced Colon Cancer in Rats. Annual Assembly of the Southeastern Surgical Congress, Naples, Florida, January 28-31, 1990.
2. Williams RB, Greene FL, Pettigrew FC, **Ross MA**: The Effect of Hyperbaric Oxygen on the Induction and Growth of Colon Cancer in Rats. Clinical Congress of the American College of Surgeons, Chicago, Illinois, October 20-25, 1991.
3. Miles WS, Bynoe RP, Bell RM, **Ross MA**: Traumatic Airway Injuries. Annual Assembly of the Southeastern Surgical Congress, Atlanta, Georgia, May 31-June 3, 1992.
4. Miles WS, Bynoe RP, Bell RM, **Ross MA**, Magee JB: Quantitative Evaluation of Hepatic Oxidative Metabolism in Ischemic Reperfusion Injury. Annual Assembly of the Southeastern Surgical Congress, Atlanta, Georgia, May 31-June 3, 1992.

Curriculum Vitae
Marco A. Ross, M.D.

SCIENTIFIC EXHIBITS (Continued)

5. Mattia AR, **Ross MA**, Trainer TD: Eosinophils and Hepatitis C. Annual Meeting of the United States and Canadian Academy of Pathology, Orlando, Florida, March 1-7, 1997.
6. **Ross MA**, Burkes EJ, Butts JD: Dental Evidence in Unidentified Remains. Annual Meeting of the American Academy of Forensic Sciences, Reno, Nevada, February 21-26, 2000.
7. Grisham LA, **Ross MA**: Cardiopulmonary Resuscitation (CPR)-Related Fractures and Their Differences From Fractures Due to Blunt Force Trauma. Annual Meeting of the American Academy of Forensic Sciences, New Orleans, Louisiana, February 13-18, 2017.
8. Lyttle BD, **Ross MA**: A Growth Chart Review in Sudden Unexpected Infant Death. Annual Meeting of the American Academy of Forensic Sciences, Seattle, Washington, February 19-24, 2018.
9. Quiz JYT, **Ross MA**, Curry E: A Case Report on the Death of a 20-Year-Old Female Due to Complications of Minimally Invasive Transcatheter Atrial Septal Defect (ASD) Closure. Annual Meeting of the American Academy of Forensic Sciences, Baltimore, Maryland, February 18-23, 2019.

INVITED LECTURES/SPEAKER

1. **Ross MA**, Miles WS: Pancreatic Injuries. Nursing Grand Rounds, Richland Memorial Hospital, Columbia, South Carolina, September 5, 1990.
2. **Ross MA**: Organ Procurement and Preservation. Surgical Grand Rounds, University of South Carolina School of Medicine, Columbia, South Carolina, April 13, 1991.
3. **Ross MA**: Surgical Interventions in Oncology. Oncology Nursing Symposium, Valley Medical Center, Fresno, California, February 9, 1994.
4. **Ross MA**: DNA Technology in Forensic Medicine. Pathology Grand Rounds, University of Vermont/Fletcher Allen Health Care, Burlington, Vermont, March 19, 1997.
5. **Ross MA**: Pathology of the Cardiac Conduction System. Pathology Grand Rounds, University of Vermont/Fletcher Allen Health Care, Burlington, Vermont, April 15, 1999.
6. **Ross MA**: Forensic Pathology. Pre-medical Internship class, Arizona State University, Tempe, Arizona, February 26, 2002.
7. **Ross MA**: Overview of Forensic Entomology. Quarterly Meeting of the California Association of Toxicologists, Phoenix, Arizona, May 17-18, 2002.
8. **Ross MA**: Forensic Entomology. Meeting of Idaho State Association of County Coroners, Coeur d'Alene, Idaho, September 23, 2004.
9. **Ross MA**: Forensic Pathology. Basic Homicide Investigation School, Washington State Criminal Justice Training Commission, Spokane, Washington, October, 2005.
10. Panel Speaker. Action for Hope and Healing: Responses to Community Violence, Le Bonheur Children's Hospital, Memphis, Tennessee, April 6, 2019.

Dr Marco Ross CASE LIST

Federal (Western District of Tennessee) – United States v. Tomarcus Baskerville, et al. – January/February 2024, Docket No. 2:22cr20068.

Federal (Western District of Tennessee) – United States v. Gregory Taylor – October 2022, Docket No. 2:18cr20280. Appealed to United States Court of Appeals, Sixth Circuit, No. 23-5473.

State v. Todd Allen Robbins, Chester County, Tennessee March 23, 2023, Docket No. 22-CR-45. Appealed to Court of Criminal Appeals of Tennessee, No. W2023-01102-CCA-R3-CD.

State of Tennessee vs. Bobby Richardson (Fayette County – Homicide) – December 14, 2022

State of Tennessee v William Flynn October 2022 - (Shelby County), Docket Nos. 18-05196,C1807579. Appealed to Court of Criminal Appeals of Tennessee, at Jackson, No. W2023-00184-CCA-R3-CD.

State of Tennessee v. Deshaun Tate (Shelby County) - October 2022, Docket No. 19-03579. Appealed to Court of Criminal Appeals of Tennessee, at Jackson, No. W2022-01671-CCA-R3-CD.

State of Tennessee vs. Caswvion Pirtle (Hardeman County – Homicide) – September 23, 2022

State of Tennessee v. Deonta Baskin (Shelby County)- June 2022, Docket No. No. 18-05058. Appealed to Court of Criminal Appeals of Tennessee, at Jackson, No. W2022-01796-CCA-R3-CD.

State (Gibson County) Uel Pearson- JUNE 2022

State (28th Judicial District) vs Benjamin Bradford 6-23-22

State of Tennessee vs Joshua Hunter Bargery (29th Judicial District) - April 2022

State of Tennessee v. Billy Ray Turner (Shelby County) – March 2022, Docket No. 17-05881. Appealed to Court of Criminal Appeals of Tennessee, at Jackson, No. W2022-01165-CCA-R3-CD.

State of Tennessee vs Demetrice Livingston - (29th Judicial District) - March 2022, Docket No. 19-CR-312. Appealed to Court of Criminal Appeals of Tennessee, at Jackson, No. W2022-01474-CCA-R3-CD.

State of Tennessee v. Marterrius Hite (Shelby County) – Trial – February 2022, Docket Nos. 16-00714. Appealed to Court of Criminal Appeals of Tennessee, at Jackson, No. W2022-00678-CCA-R3-CD.

State of Tennessee v. Shanynthia Gardner (Shelby County) – December 2021, Docket Nos.17-00369, C170112. Appealed to Court of Criminal Appeals of Tennessee, at Jackson, No. W2022-00820-CCA-R3-CD.

State of Tennessee v. Latosha Starks-Twilley (Shelby County) – November 2021, Docket No. C1705886. Appealed to Court of Criminal Appeals of Tennessee, at Jackson, No. W2022-00020-CCA-R3-CD.

State (Shelby County) Charles Harris- NOVEMBER 2021

State (Shelby County) Eric Williams- NOVEMBER 2021

State of Tennessee v. Cadarius Head (Shelby County)- September 2021, Docket No. 18-06981. Appealed to Court of Criminal Appeals of Tennessee, at Jackson, No. W2021-01500-CCA-R3-CD.

State of Tennessee v. Justine Welch (Shelby County)- August 2021, Docket Nos. C1800802, 18-00253. Appealed to Court of Criminal Appeals of Tennessee, at Jackson, No. W2021-01233-CCA-R3-CD.

State of Tennessee v. Lloyd Crawford (Shelby County) – July 2021, Docket No. 17-02526. Appealed to Court of Criminal Appeals of Tennessee, at Jackson, No. W2019-02056-CCA-R3-CD.

State of Tennessee v. Demerrick Porter (Shelby County) – July 2021, Docket Nos. C1810060/18-06890. Appealed to Court of Criminal Appeals of Tennessee, at Jackson, No. W2021-01216-CCA-R3-CD.

State of Tennessee v. Ryan Winston (Shelby County) – June 2021, Docket Nos. C1902454/19-61781. Appealed to Court of Criminal Appeals of Tennessee, at Jackson, No. W2021-01315-CCA-R3-CD.

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State (28th Judicial District) vs Dustin Cathey 2-16-18

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State of Tennessee v. Antonio Benson (Shelby County) – Trial – January 2017, Docket No. 13-04060. Appealed to Court of Criminal Appeals of Tennessee, at Jackson, No. W2017-01119-CCA-R3-CD. Appealed to Supreme Court of Tennessee, No. W2017-01119-SC-R11-CD. Appealed to US Supreme Court, No. 20-5299.

State (28th Judicial District) vs William Jeremy Cole 1-17-17

Cases not on list – possibly just a fact witness

Graham v. Shelby County, Tennessee, et al., United States District Court, WD Tennessee, Docket No. [2:21cv2357](#).

Involvement with case: Issued autopsy report – unclear if fact witness

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Grove v. Carlin, United States District Court, Idaho, Docket No. [3:17cv306](#)

Involvement with case: Gave testimony, issued autopsy report – unclear if fact witness

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Involvement with case: Gave testimony, issued autopsy report – unclear if fact witness

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Involvement with case: Issued autopsy report – unclear if fact witness

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United States District Court, WD Tennessee, Docket No. [1:21cv332](#).

Involvement with case: Issued autopsy report – unclear if fact witness

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Involvement with case: Referred to as witness – unclear if fact witness

Link to document: <https://plus.lexis.com/api/permalink/2b01c4dc-47db-4960-b80d-9548b7c6cb38/?context=1530671>

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Involvement with case: Gave testimony, issued autopsy report – unclear if fact witness

Link to document:

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Involvement with case: Gave testimony, classified as expert, issued autopsy report – may not be on case list because original case is so old.

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Involvement with case: Issued autopsy report – unclear if fact witness

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State of Tennessee v. Dodd, Criminal Court Of Tennessee, Shelby County, Docket No. 16-06940. Appealed to Court of Criminal Appeals of Tennessee, at Jackson, Docket No. W2018-01961-CCA-R3-CD.

Involvement with case: Gave testimony, issued autopsy report – unclear if fact witness

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Involvement with case: Gave testimony, classified as expert

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Involvement with case: Gave testimony

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Involvement with case: Gave testimony, issued autopsy report – unclear if fact witness

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Involvement with case: Issued autopsy report – unclear if fact witness

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Involvement with case: Gave testimony, issued autopsy report – unclear if fact witness

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Dr. Rebecca Folkerth CASE LIST

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Rebecca D. Folkerth

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Curriculum Vitae
Mohammad Theib Assaf, M.D.

Personal Information:

Address:



Telephone:



Birth Date:



Marital Status:

Married with three children

Current Position:

Private Practice

6005 Park Avenue
Ste 722B
Memphis, TN 38119

Board Certification:

Eligible 1993

American Board of Psychiatry and
Neurology, Inc.

Licenses:

Jordan
Ohio
Tennessee
Mississippi

Education:

M.B.B.S. Degree in
Medicine and Surgery
1974-1982

Jordan University
Amman, Jordan

Basic Medical Science
Course October 1986
through January 1987

Stanley Kaplan Education Ctr

ECFMG Certificate 1987

Internship
1982 - 1983

Augusta Victoria Hospital
Jerusalem, Israel

Surgical Resident
July 1983 - September 1983

Augusta Victoria Hospital
Jerusalem, Israel

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| Medical Resident September 1983 - August 1985 | Augusta Victoria Hospital Jerusalem, Israel |
| Medical Resident August 1985 - September 1986 | Makassed Hospital Jerusalem, Israel |
| Private Practice June 1987 - August 1987 | Kalandia Clinic Jerusalem, Israel |
| Senior Medical Resident August 1987 - July 1988 | Makassed Hospital Jerusalem, Israel |
| Internship- Internal Medicine August 1988 - July 1989 | Cleveland Clinic Foundation 9500 Euclid Avenue Cleveland, OH 44195 |
| Neurology Resident July 1989 - June 1992 | Cleveland Clinic Foundation Cleveland, OH |
| Stroke Fellowship July 1992 - June 1993 | University of TN 855 Monroe Ave, Room 415 Memphis, TN 38163 |
| Neurophysiology Fellowship July 1993 - March 1994 | University of TN 855 Monroe Ave, Room 415 Memphis, TN 38163 |
| Private Practice 1995 - Present | 6005 Park Avenue Ste 722B Memphis, TN 38119 |
| Medical Rehab Director: March 2011 - March 2012 | Saint Francis Hospital 5959 Park Avenue Memphis, TN 38119 |
| Medical Stroke Director: March 2012 - present | Saint Francis Hospital 5959 Park Avenue Memphis, TN 38119 |
| Medical Stroke Director: March 2016 - Present | Saint Francis Hospital - Bartlett 2986 Kate Bond Rd Bartlett TN 38133 |

Professional Organization:

Jordanian Medical Association
American Academy of Neurology

American Heart Association
Stroke Council
National Stroke Association

Research & Presentation:

- 1) Free Radical Scavenging Enzymes(FRESA) and Parkinson's disease. Presented at Fifteen Annual Neuroscience Resident's Day, June 6 1990, Cleveland, OH.
- 2) Horner's Syndrome Secondary to Angiogram Negative, Subadventitial Carotid Artery Dissection. Presented at the Walsh Society Meeting, January, 1991, Utah.
- 3) Horner's Syndrome Secondary to Angiogram Negative, Subadventitial Carotid Artery Dissection. Presented at the Canadian Congress of Neuroscience, June 1991, Nova Scotia.
- 4) Horner's Syndrome Secondary to Angiogram Negative Subadventitial Carotid Artery Dissection. Presented at the Sixteen Annual Neuroscience Day, June 1991, Cleveland, OH
- 5) Subadventitial Extracranial Carotid Artery Dissection with normal Angiography. Presented at the American Neurological Association, October, 1991, Seattle.
- 6) Quantitative correlation of Muscle Biopsy and EMG findings in Polymyositis. Presented at the Seventeen Annual Neuroscience Resident Day, June 1992, Cleveland, OH.
- 7) Postoperative Stroke in Coronary Artery Bypass Graft (CABG) Surgery. Accepted to the American Neurological Association Meeting in Boston, October 1993.
- 8) Postoperative Stroke in Coronary Artery Bypass Graft (CABG) Surgery: Racial Differences. Submitted to the Stroke Journal for publication.

Co-investigator:

- 1) Warfarin Aspirin in recurrent Stroke Study(WARSS)
- 2) Southeastern Consortium on Racial Differences in Stroke (SECORDS) study.

Abstract:

- 1) Horner's Syndrome Secondary to Angiogram Negative, Extracranial Carotid Artery Dissection.

M. Assaf, PJ Sweeney, G. Kosmorsky, T. Masaryk, A. Wilbourn.
The Canadian Journal of Neuroscience, 1991: 18(2); 258.

- 2) Subadventitial Extracranial Carotid Artery Dissection with normal Angiography.
PJ Sweeney, M. Assaf, G. Kosmorsky, T. Marsaryhk.
Ann of Neurology, 1991: 30(2); 247.

3) Postoperative Stroke in Coronary Artery Bypass Graft Operation.

M.Assaf, K. Gaines, R. VanderZwaag.

Ann of Neurology, 1993: 34(2); 254.

Publications:

M. Assaf, PJ Sweeney, G. Kosmorsky, T. Masaryk: Horner Syndrome Secondary to Angiogram Negative, Extracranial Carotid Artery Dissection.

The Canadian Journal of Neuroscience, February 1993.

Revised: October 2021

Dr. Mohammed Assaf

Dr. Assaf was a consulting physician for Mr. Nichols while Nichols was hospitalized at St. Francis from on or about January 7-10, 2023. Dr. Assaf will offer testimony as to his observations of Mr. Nichols and as to his analysis of tests run on Mr. Nichols during his hospitalization. In particular, Dr. Assaf will testify that test results for Mr. Nichols indicated brain death on or about January 9, 2023. Dr. Assaf will also likely testify that an individual with a traumatic brain injury such as Nichols had must receive medical care as soon as possible. Medical care providers should monitor both oxygen and blood supply to the brain. The brain needs oxygen and glucose, which are carried by the blood. If either are taken away, then brain damage could occur. Medical care providers should also monitor swelling of the brain, which could reduce oxygen levels in the brain. Damage to the brain from a lack of oxygen is irreversible.

The consequences of delayed treatment might depend on the cause of the brain damage. Brain bleeding and oxygen deprivation, if not corrected, could result in death. Delayed treatment of a patient with a traumatic brain injury could result in death.

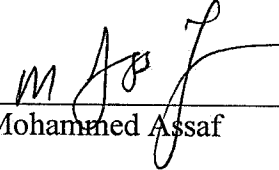
It is considered standard care to conduct a CAT scan or MRI on a patient with a suspected brain injury. Doctors should monitor blood pressure and pulse and make sure the airway is clear. Doctors should also monitor brain pressure. In some cases, brain pressure may be reduced with medicine, but doctors may have to lower pressure by draining fluid with a tube. Every single minute a patient with excessive brain pressure experiences inadequate blood flow and oxygen causes irreversible damage to the brain. Multi-system failure could occur as a result of brain damage. As few as three minutes of oxygen deprivation can cause brain damage.

Medical care providers should work on a patient's breathing right away. A delay in initial resuscitation could affect the mortality rate, especially if someone's heart has stopped. The heart needs to pump blood to provide oxygen to the brain. It is important for medical care providers to know the mechanism of injury. They need to understand the type of injury. For example, they must be able to differentiate between a contusion and a concussion, as treatment may differ. If a patient arrives to the hospital unconscious, it is standard procedure to conduct a CAT scan. However, doctors will often reach out to the family to ask what the patient was doing before, during, or after the injury to find out what happened. From a physician's standpoint, understanding what caused the injury can be helpful for determining treatment.

After initial imaging, doctors should continue to monitor a patient. Bleeding in the brain that was not apparent in initial imaging may appear after a week. Doctors may not be able to see the bleed at first, but they can see it later, so it is important to conduct subsequent imaging. A patient with a suspected brain injury should be admitted to the hospital and observed. Treatment should not be delayed, as minutes are vital. The prevention of secondary injuries is crucial. EMT and first responders should focus on the airway and the heart. Additionally, they should work to stop bleeding as they move the patient to next care, whether by ambulance or flight to the emergency room.

Knowing the mechanism of injury is important. For instance, if a CAT scan for an unconscious patient appears normal, doctors need to know why the patient is unconscious. When a patient such as Mr. Nichols has a traumatic brain injury, doctors should monitor the brain pressure, the breathing and airway, and check for seizures. Electrical seizures may not be seen externally, but can be detected by viewing

brain activity. These things are best conducted at a hospital; therefore, it is important first responders get a patient to the hospital as quickly as possible. It is good for a physician to know how an injury occurred. Minutes without adequate care could cause irreversible damage. EMS meets the patient in those first few important minutes. Therefore, EMS needs to know how an injury occurred as well.



Dr. Mohammed Assaf

CURRICULUM VITAE

**Daniel T. Anderson, M.S., D-ABFT-FT, ABC-GKE
Toxicologist IV**

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EDUCATION

University of New Haven, New Haven, CT 1988-1990
Master of Science - Forensic Science

Colorado State University, Fort Collins, CO 1984-1988
Bachelor of Science - Zoology, Forensic Biology Concentration

EXPERIENCE

NMS Labs, Horsham, PA January 2021-Present
Toxicologist IV (Title change in September 2022)

Colorado Bureau of Investigation, Denver, CO January 2015-January 2021
Toxicology/Laboratory Manager - Toxicology (January 2015 - January 2021)
Laboratory Manager-Drug Chemistry (June 2017-August 2019)

Los Angeles County Department of Medical Examiner-Coroner, Los Angeles, CA 1995-2015
Interim Chief-Forensic Science Laboratories (2014-2015) 1990-1994
Supervising Criminalist II (1999-2014) - Toxicology
Supervising Criminalist I (1995-1999) - Toxicology
Criminalist & Senior Criminalist (1990-1994) - Toxicology

Ventura County Sheriff's Department, Ventura, CA 1994-1995
Criminalist III - Toxicology and Drug Chemistry

CERTIFICATION & LICENSURE

American Board of Forensic Toxicology (ABFT) 2007-Present
Diplomate Forensic Toxicology

American Board of Criminalistics (ABC) 1998-Present
General Knowledge Examination

Texas General Forensic Analyst Licensing #1805 January 2023 - February 2025
Ohio Department of Health Alcohol & Drug Testing #4376-LT since November 2022
Wyoming Department of Health #2021-232 since August 2022
North Carolina Department of Health and Human Services #657 since July 2022

PROFESSIONAL AFFILIATIONS

American Academy of Forensic Sciences (AAFS) 1990-Present
Fellow - Toxicology

- Board of Directors (Director (Toxicology) 2023-Present)
- Academy Standards Board (ASB) - Vice Chair (2023-present), Board of Directors (2022-2023)
- Board of Trustees, Forensic Science Foundation (2015-2019)
- Toxicology Section Chair, Secretary, Scientific Program Co-Chair (2014-2017)
- Toxicology Section Ray Abernathy Award Recipient (February 2011)

California Association of Toxicologists (CAT) 1992-Present
Member - Toxicology

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-
- Quality Control/Quality assurance Chairperson (2000-January 2007)
 - New Drugs Associate Editor, CAT Newsletter (2002-December 2014)
 - President (2005-2006)
 - Vice President, Past President, Member-at-Large South (2007-November 2009)

| | |
|--|-----------------------------|
| Society of Forensic Toxicologists (SOFT) | 1997-Present |
| Member - Toxicology | |
| <ul style="list-style-type: none"> • Co-Host SOFT 2023 Annual Meeting, Denver, CO • Co-Host SOFT-TIAFT 2017 Annual Meeting, Boca Raton, FL (2018) • President 2013 • Board of Directors (Director, Secretary, Vice President 2008-2012) • ToxTalk Associate Editor (2001-July 2016) • Workshop Coordinator Annual Meeting (Phoenix, AZ 2008) • Journal of Analytical Toxicology Special Edition Editor (Phoenix, AZ 2008) | |
| American Society of Crime Laboratory Directors (ASCLD) | 2017-2019 |
| Member | |
| California Association of Criminalists (CAC) | 1991-2003 |
| Member | |
| <ul style="list-style-type: none"> • Co-Host of the Annual Meeting, Huntington Beach, CA (2003) | |
| American Board of Forensic Toxicologists (ABFT) | |
| Assessor | 2009-2019 |
| Board of Directors | July 2018-June 2020 |
| Treasurer | July 2020- July 2023 |
| Vice President | July 2023-Present |
| ANAB and ASCLD-LAB (American Society of Crime Laboratory Directors / Laboratory Accreditation Board) | 2016-Present |
| Assessor | |
| Journal of Analytical Toxicology (JAT) | 2010-Present |
| Editorial Advisory Board | |
| Journal of Forensic Sciences (JoFS) | 2015-Present |
| Editorial Board | |
| National Institute of Justice-General Forensics Research and Development Technology Working Group (NIJ-TWG) | 2010-2020 |
| Invited Member | |
| Scientific Working Group-Toxicology (SWGTOX) | 2011-2014 |
| Invited Member | |
| OSAC, Toxicology Committee Sub discipline | |
| Invited Member | 2015-Sept 2020 |
| Invited Member | Oct 2021-Present |
| National Safety Council-Alcohol, Drugs, and Impairment Division | 2015-present |

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Nominated member

PUBLICATIONS (Peer Reviewed)

- Anderson, Anderson, Harre, & Wade. *Two Fatal Case Reports of Acute Yohimbine Intoxication*. Journal of Analytical Toxicology-Special Issue, September 2013.
- Miller, Pleitez, Anderson, Mertens-Maxham, Wade. *Asenapine (Saphris®): GC-MS Method Validation and the Postmortem Distribution of a New Atypical Antipsychotic Medication*. Journal of Analytical Toxicology-Special Issue, September 2013.
- McIntyre and Anderson. *Postmortem Fentanyl Concentrations: A Review*. Journal of Forensic Research, July 2012, Volume 8, Issue 8: 1000157
- Anderson & Elbogen. *Determination of Specific Absorbance (A_λ) for Zaleplon (Sonata®) by Spectrophotometry*. Special Edition of the Journal of Analytical Toxicology, October 2009, Volume 33: 478-480.
- Anderson & Budd. *Zaleplon (Sonata®) Analysis in Postmortem Specimens by Gas Chromatography-Electron Capture Detection*. Special Edition of the Journal of Analytical Toxicology, October 2009, Volume 33: 481-485.
- Anderson, Special Editor, representing Society of Forensic Toxicologists Inc., for the Special Edition of Journal Analytical Toxicology, October 2008 Volume 32, No. 8 529-720.
- Anderson, Reed, Lintemoot, Kegler, DeQuintana, Sandberg, and Muto. *A First Look at Duloxetine (Cymbalta®) in a Postmortem Laboratory*. Journal of Analytical Toxicology, October 2006, Volume 30: 576-580.
- Anderson, Fritz, & Muto. *Oxycontin® : The Concept of a 'Ghost Pill' and the Postmortem Tissue Distribution of Oxycodone in 36 Cases*. Journal of Analytical Toxicology, October 2002, Volume 26: 448-459.
- Anderson & Muto. *Duragesic Transdermal Patch: Postmortem Tissue Distribution of Fentanyl in 25 Cases*. Journal of Analytical Toxicology, October 2000, Volume 24: 627-634.
- Anderson & Fritz. *Case Report: Quetiapine (Seroquel®) Concentrations in Seven Postmortem Cases*. Journal of Analytical Toxicology, May/June 2000, Volume 24: 300-304.
- Anderson, Fritz & Muto. *Distribution of Mirtazapine in Thirteen Postmortem Cases*. Journal of Analytical Toxicology, October 1999, Volume 23: 544-8.
- Anderson, Chwa, Moriya, Muto, Noguchi, Ishizu. *Postmortem Cocaethylene Levels in the Blood of Cocaine Abusers Associated with Drinking*. Jpn Journal of Forensic Toxicology, Vol. 12, No. 3, 1994, 192-198.
- Rogers, Anderson, Ribe & Sathyavagiswaren. *Fatal Flecainide Intoxication*. Journal of Analytical Toxicology, Vol. 17, No. 7, Nov/Dec 1993, pp. 434-435.
- Lee, Pagliaro, Berka, Folk, Anderson, Ruano, Keith, Phipps, Herrin, Garner, et al. *Genetic Markers in Human Bone: I. Deoxyribonucleic Acid (DNA), Analysis*. Journal of Forensic Sciences, JFSCA, Vol. 36, No. 2, March 1991, pp. 320-330.

PUBLICATIONS (Non-Peer Reviewed)

- Anderson. *New Drug: Vilazodone (Viibyrd®)*. Society of Forensic Toxicologists, ToxTalk. Vol. 36, Issue 1, March 2012, pp 16.
- Anderson and Lyons. *TECH-IN Duloxetine (Cymbalta®)*. Society of Forensic Toxicologists ToxTalk. Vol. 36, Issue 1, March 2012, pp 14-15.
- Anderson and deQuintana. *New Drug: Asenapine (Saphris®)*. Society of Forensic Toxicologists ToxTalk. Vol. 35, Issue 1, March 2011, pp 23.
- Anderson, deQuintana, and Valencia. *New Drug: Tapentadol (Nucynta®)*. Society of Forensic Toxicologists ToxTalk. Vol. 34, Issue 3, September 2010, pp 22-23.

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- Anderson. *New Drug: Iloperidone (Fanapt®)*. Society of Forensic Toxicologists ToxTalk. Vol. 33, Issue 3, September 2009, pp 11.
 - Lintemoot and Anderson. *New Drug: Ambroxol*. Society of Forensic Toxicologists ToxTalk. Vol. 32, Issue 4, December 2008, pp 24.
 - Anderson and Sandberg. *New Drug: Ropivacaine (Naropin®)*. Society of Forensic Toxicologists ToxTalk. Vol. 29, Issue 3, September 2005, pp 12.
 - Anderson. *New Drug: Atomoxetine (Strattera®)*. Society of Forensic Toxicologists ToxTalk. Vol. 28, Issue 1, March 2004, pp 9.
 - Anderson. *New Drug: Duloxetine (Cymbalta®)*. Society of Forensic Toxicologists ToxTalk. Vol. 28, Issue 3, September 2004, pp 14.
 - Anderson. *New Drug: Aripiprazole (Abilify®)*. Society of Forensic Toxicologists ToxTalk. Vol. 27, Issue 2, June 2003, pp 8.
 - Anderson. *New Drug: Clobenzorex (Asenlix®, Dinintel®, Finedal®)*. Society of Forensic Toxicologists ToxTalk. Vol. 25, Issue 1, March 2001, pp 8.
 - Anderson. *New Drug: Reboxetine (Vestra®)*. Society of Forensic Toxicologists ToxTalk. Vol. 25, Issue 1, March 2001, pp 9.

PRESENTATIONS

- “Toxicology: Testing and Trends”. Minnesota Coroner/Medical Examiner Association (remote). September 22, 2022.
- “Medicines of the Mind: Antidepressants and Antipsychotics”. CSFRE Pathology Fellows Training course (Remote). September 20, 2022.
- “Overview of Forensic Toxicology Practices”. CFSRE/NAME/NNPHI Webinar Introduction to Drug Caused and Related Death Investigation. September 24, 2021 & March 09, 2022.
- “Toxicology: Instrumentation Methodology, and Workflows”. ASCLD Train the Director Series Webinar-RTI International, Center of Forensic Sciences, Forensic Technology Center of Excellence, February 06. 2020.
- “Evaluating Current Practices for Conformance - Nonconforming Work and Corrective Action” Society of Forensic Toxicologists Workshop ANAB ISO 17025: 2017 & ABFT Accreditation-Bridging the Gaps, San Antonio, TX. October 14, 2019.
- “Overview of the Lifecycle of a Toxicology Sample”. National Highway Traffic Safety Administration (NHTSA) Prosecutor and Toxicologist Guide to Effective Communication in Impaired Driving Cases. Lakewood, CO. December 18, 2018.
- “Forensic Analysis in the Weeds: Catching the Rocky Mountain High in the Age of Legalized Marijuana” Invited Speaker-Medical College of Wisconsin, Milwaukee, WI June 8, 2018.
- “Los Angeles County Coroner-Medical Examiner: A Toxicologist’s Experience with High-Profile Cases” Colorado Coroner’s Association, Fort Collins, CO June 6, 2018.
- “Postmortem Forensic Toxicology: From Specimen collection to Result Interpretation and Everything In-between!” Colorado Coroner’s Association, Grand Junction October 04, 2017.
- “Colorado - Some Rocky Mountain High Wisdom for Testing and Prosecuting DUI/DUID Casework.” International Association of Chiefs of Police Drug Recognition Expert (IACP-DRE) Annual conference, National Harbor, MD August 12-14, 2017.
- “A Toxicology Error: The Beginning of the End?” ASCLD Annual Meeting, Dallas, TX May 4, 2017.
- “Forensic Toxicology: Tale of Two Different Experiences - Postmortem casework from Los Angeles and the Rocky Mountain Antemortem High”, 27th Annual John R. Teggatz Science Seminar, Milwaukee, WI November 2, 2016.
- “Postmortem Case Investigation-The Forensic Toxicologist’s Worldview” Wisconsin State Laboratory of Hygiene Medical Examiner Symposium, Madison, WI July 15, 2016

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- “Postmortem Toxicology Testing: From Autopsy to Interpretation”, Society of Forensic Toxicologists Annual Meeting, Atlanta, GA October 19, 2015.
 - “The Challenges of Building a Quality Program in a New Laboratory” Quality in Laboratories Finding a Balance, Atlanta, GA October 19, 2015.
 - “Medicines of the Mind” -The Psychological Autopsy: Toxicology and Psychiatry/ Behavioral Sciences in a Working Relationship. American Academy of Forensic Sciences, Orlando, FL, February 19, 2015.
 - “A Toxicology Case Study of a High Profile Celebrity Death”, International Association of Chemical Testing (IACT), April 7, 2014, Newport Beach, CA.
 - “Where the Wild Things Are: Oleander Poisoning”, West Coast Training Conference, April 24, 2014, North Hollywood, CA.
 - “Summary of Drug Contamination of Case Specimens by a Blender Carafe”, Root Cause Analysis - When Blaming the Analyst Completely Misses the Point Workshop. American Academy of Forensic Sciences Annual Meeting, February 17, 2014, Seattle, WA.
 - “Michael Jackson: Role of the Toxicologist in the Lab and the Courtroom”, Society of Forensic Toxicologists Annual Meeting, October 28, 2013, Orlando, FL.
 - “Forensic Science Laboratories”, Los Angeles Public Defenders Investigator Training, October 15, 2013, Los Angeles, CA.
 - “Forensic Toxicology: The Ever So Fluid and Dynamic Discipline of Forensic Science” American Academy of Forensic Sciences-Young Forensic Scientists Forum, February 19, 2013, Washington DC.
 - “Michael Jackson-The Importance of Toxicology.”
 - American Society of Anesthesiology, October 13, 2012, Washington DC
 - West Cost Training Conference, October 26, 2012, North Hollywood, CA.
 - “When Actors Don’t follow the ‘Script’ The Physical and Social Dangers of Combining Prescription Medication High Profile Celebrity Deaths” National Institute of Justice (NIJ) Annual Conference, June 19, 2012. Washington, DC.
 - “The LA Way of Analyzing THC/THC-COOH from Postmortem Specimens”, California Association of Toxicologists, May 5, 2012, San Jose, CA.
 - “Living in a Cloud of Volatiles”, Northeastern Association of Forensic Scientists, November 3, 2011, Newport, RI.
 - “Celebrity Deaths and the Duties of a Criminalist at the Los Angeles County Coroner”,
 - Northeastern Association of Forensic Scientists, November 4, 2011. Newport, RI.
 - Alberta Society of Human Toxicology, March 3, 2012. Kananaskis, Alberta, Canada
 - “Aspects of Postmortem Testimony, Mistakes Made, and Other Tidbits...”, Society of Forensic Toxicologists Annual Meeting: Forensic Toxicology Expert Witness Testimony: What to Expect and How to Prepare Workshop. September 27, 2011 San Francisco, CA.
 - “And Lets Not Forget about MDMA...” California Association of Toxicologists, May 6, 2011 Napa, CA.
 - “Postmortem Toxicology: Interpretative Resources” Los Angeles County Department of Coroner Continuing Medical Education. March 9, 2011 Los Angeles, CA.
 - “Postmortem Toxicology: Interpretative Resources” American Academy of Forensic Sciences-Tips and Tricks to Improve the Interpretative Value of Postmortem Toxicology. February 21, 2011 Chicago, IL.
 - “Forensic Toxicology”, USC RSCI-525: Introduction to Food & Drug Toxicology, February 12, 2011 & February 9, 2013 - USC Health Science Campus, Los Angeles, CA
 - “Cross Reactivity”, Getting the Most from ELISA: Tips and Tricks for the Professional Toxicologist Workshop, October 18, 2010 Society of Forensic Toxicologists - Richmond, VA

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- “Using Pharmacology in the Interpretation of Postmortem Cases”, SOFT Continuing Education Workshop/NYSD of CJS, June 8, 2010 - Albany, NY
 - “Celebrity Deaths in LaLa Land-The Importance of Forensic Toxicology”, Mid-Atlantic Society of Toxicologists, May 12, 2010 - Iselin, NJ
 - “Toxicology”, Los Angeles County District Attorney Training, March 17, 2010, Los Angeles, CA.
 - “Sedative-Hypnotics”, “Newer” Prescription Drugs: Impairment Potential & Identified Polypharmacy Workshop. Society of Forensic Toxicologists, October 20, 2009-Oklahoma City, OK.
 - “Using Pharmacology in the Interpretation of Postmortem Toxicology Cases”, California Association of Toxicologists, January 17, 2009 - San Francisco, CA
 - “You’re More Than a Toxicologist in the Field of Postmortem Toxicology” American College of Toxicology, November 12, 2008 - Tucson, AZ
 - “Postmortem Opiate Interpretation - What a Pain in the Rear” Pain Management and Addiction Workshop, SOFT 2008 - Phoenix, AZ
 - “Sample Preparation, GC Instrumentation, and More”
 - “Spirit Lifting and Mind Clearing-Antidepressant and Antipsychotic Medications”
 - “Drug-Facilitated Sexual Assault: Challenges and Solutions for Toxicologists” Midwest Forensics Resource Center Toxicology Symposium, Ames, IA August 2008
 - “Mis-Use, Abuse, and Suicide(?) with Ecstasy/MDMA”, California Association of Toxicologists, Palm Springs, CA November 2006
 - “The Reality! Validation or Shotgun Chemistry?” Method Validation and Measurement of Uncertainty for Dummies...and Smarties, Too Workshop, Austin, TX October 2006.
 - “The LA Way” Society of Forensic Toxicologists - The Postmortem Blood Drug Screen: Analytical and Managerial Approaches Workshop, Nashville, TN October 2005
 - “New Drugs and Trends”, California Association of Toxicologists-Round Table Discussion, Sacramento, CA March, 2005
 - “Living in Cloud of Volatiles”, West Coast Seminar-LA County Coroner, North Hollywood, CA November, 2004
 - “It’s Only Just Begun! A Postmortem Tissue Distribution of Strattera® or Atomoxetine in Two Fatalities”, Society of Forensic Toxicologists, Washington D.C., August/Sept. 2004
 - “Up, Up,... and Away! Living in Cloud of Volatiles”, California Association of Toxicologists, Pasadena, CA June 2004
 - “Where the Wild Things Are: Oleander and Other Weeds”, California Association of Toxicologists, Oakland, CA March 2004, West Coast Seminar, North Hollywood, CA April 2014, & LA County ME-Coroner Forensic Science Seminar, Los Angeles, CA September 2014
 - “Symbiotic Relationship between the Toxicologist and Numerology”, Joint Meeting of the California Association of Toxicologists and Southwestern Association of Toxicologists, Albuquerque, NM, May 2003
 - “Atypical Antipsychotics-Medicines for the Mind”, American Academy of Forensic Sciences, Chicago, IL February 2003
 - “Approaches to Analyzing for New Drugs,” California Association of Toxicologists, San Jose, CA February 2002
 - “Postmortem Cases Involving Oxycontin®,” Society of Forensic Toxicologists Annual Seminar, New Orleans, LA October 2001
 - “GHB-Roundtable Discussion”, California Association of Toxicologists, Oakland, CA February 2001
 - “Tissue Distribution of Paroxetine (Paxil) in Sixty-five Postmortem Cases,” Society of Forensic Toxicologists Annual Seminar, Milwaukee, WI, October 2000

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- "Case Report: Postmortem Tissue Distribution of Gamma Hydroxybutyrate (GHB) and Gamma Butyrolactone (GBL) in a Single Fatality," Society of Forensic Toxicologists Annual Seminar, Milwaukee, WI, October 2000
 - "Forensic Toxicology of Opiate Alkaloids and Synthetic Analgesics-Fentanyl" American Academy of Forensic Sciences Annual Meeting, Reno, NV February 2000
 - "Pharmaceutical Medication (Basic Drugs): Extraction and Analytical Information," California Association of Toxicologists Quarterly Meeting, San Diego Nov. 1999
 - "Zolpidem," Pharmacology Reviews I: Selected New Drugs Workshop, Society of Forensic Toxicologists Annual Seminar, San Juan, Puerto Rico, October 1999
 - "Case Study: Duragesic Patch® - Postmortem Tissue Distribution of Fentanyl in Twenty-five Fatalities," Society of Forensic Toxicologists Annual Seminar, San Juan, Puerto Rico, October 1999
 - "Thirty-Five Case Studies Involving Postmortem Tissue Distributions of Olanzapine (Zyprexa®)," Society of Forensic Toxicologists Annual Seminar, Albuquerque, NM October 1998
 - "Postmortem Tissue Distribution of Mirtazapine (Remeron®)," Society of Forensic Toxicologists Annual Seminar, Albuquerque, NM, October 1998
 - "Gamma Hydroxybutyrate (GHB), Scientific and Analytical Aspects," California State Coroner's Association Advanced Training, Riverside, CA September 1998
 - "Endogenous Gamma Hydroxybutyrate (GHB) Levels in Postmortem Specimens," CAT/NWAFS/SWAFS/SAT Combined Professional Meeting, Las Vegas, NV November 1997 (Recipient of the CAT Scholarship/Research Assistance Grant)
 - "The Effects of Formalin Fixation on Postmortem Livers: Cocaine & Opiates," California Association of Toxicologists, San Pedro, CA May 1997
 - "Postmortem Tissue Distribution of Venlafaxine: Six Case Studies," Society of Forensic Toxicologists Annual Seminar, Denver, CO October 1996
 - "Two Overdose Fatalities Involving Health Care Professionals: Postmortem Tissue Distribution of Fentanyl," Society of Forensic Toxicologists Annual Seminar, Denver, CO October 1996
 - "Jin Bu Huan; A Toxicological Analysis of Tetrahydropalmatine,"
 - California Association of Criminalists Annual Seminar, San Pedro, CA October, 1995
 - Society of Forensic Toxicologists Annual Seminar, Denver, CO October 1996
 - "Analysis of a Bupropion Overdose and the Tissue Distribution of its Metabolites," American Academy of Forensic Sciences Annual Seminar (Toxicology Section), Boston, MA February 1993.

CONTINUING EDUCATION

2023

- American Academy of Forensic Sciences Annual Meeting, Orlando, FL February 15-17, 2023
 - Workshop 10: Reefer Madness. The History of THC Psychosis and Modern Adverse Events (half-day) February 13, 2023.
 - Workshop 26: Taming the Wild West of Workflows for Opioids, Emerging and Controversial Drug Threats (half-day) February 14, 2023.
- Society of Forensic Toxicologists Annual Meeting, Denver, CO October 30-November 03, 2023.
 - Workshop 4: From Bottle to Backpack-Introduction to Pediatric Toxicology Part I.
 - Workshop 7: Cannabis Testimony in Today's Environment.
 - Workshop 12: Drug-Facilitated Crimes (DFC) Analytical Methods and Statistics Part I.

2022

- Society of Forensic Toxicologists Annual Meeting, Cleveland, OH October 31-November 04, 2022.

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- Workshop 4: Method of Standard Addition for Analyte Quantification for Application to Postmortem Matrices and Novel Psychoactive Substances (half-day).
 - Workshop 6: Drugs and Behavior: The role of Forensic Toxicology (half-day).
 - Organization of Scientific Area Committees (OSAC) Meeting, Orlando, FL June 14-17, 2022.
 - ANAB Laboratory Assessment-Toxicology Technical Assessor, Lake Charles, LA May 16-17, 2022.
 - American Academy of Forensic Sciences Annual Meeting, Seattle, WA February 21, 2022
 - Workshop 9: Forensic Science Standards Development and Implementation

2021

- Society of Forensic Toxicologists Annual Meeting, Nashville, TN September 27-October 1, 2021.
 - Workshop 5: Alcohol Calculations
 - Workshop 8: Poisons
- CFSRE/NAME/NNPHI Webinar Introduction to Drug Caused and Related Death Investigation.
 - Module 1: September 23-24, 2021.
 - Module 2: October 27-29, 2021.
- California Association of Toxicologists Semi-Annual Meeting -Virtual -7 content hours, August 4-5, 2021.
- Robert F. Borckenstein Course on Alcohol and Highway Safety: Testing, Research and Litigation - Virtual -30 content hours, May 18-27, 2021.

2020

- Society of Forensic Toxicologists Annual Meeting (Virtual) September 2020.
 - Workshop 2: Cannabis Impaired Driving: Where are we in 2020? September 22, 2020.
- Organization of Scientific Area Committees (OSAC) Meeting, Oklahoma City, OK March 10-13, 2020.
- American Academy of Forensic Sciences Annual Meeting, Anaheim, CA February 19-21, 2020.
 - Workshop 4: The Impact of the 2018 Farm Bill on the Forensic Analysis of Cannabis. February 17, 2020.

2019

- Society of Forensic Toxicologists Annual Meeting, San Antonio, TX October 14-18, 2019.
 - Workshop: ANAB ISO 17025: 2017 & ABFT Accreditation-Bridging the Gaps
 - Workshop: National Safety Council/OSAC Recommendations for DUID Testing: Scope, Cutoffs, Specimens
- Organization of Scientific Area Committees (OSAC) Meeting, Orlando, FL July 09-12, 2019.
- American Academy of Forensic Sciences Annual Meeting, Baltimore, MD February 20-22, 2019.
 - Novel Psychoactive Substance (NPD) Surveillance, Detection, and Intelligence for Use by Forensic Laboratories, Public Health, and Public Safety Workshop February 21, 2019.
- ANAB Laboratory Assessment-Toxicology Assessor, Toronto, Canada January 28-31, 2019.

2018

- National Highway Traffic Safety Administration (NHTSA) Prosecutor and Toxicologist Guide to Effective Communication in Impaired Driving Cases. Lakewood, CO December 18 & 19, 2018.
- ANAB Laboratory Assessment-Toxicology Assessor, Phoenix, AZ December 3-6, 2018.
- National Institute of Justice (NIJ) - Technical Working Group (TWG) Toxicology & Drug Chemistry, Washington DC November 14-15, 2018.
- Organization of Scientific Area Committees (OSAC) Meeting, Houston, TX November 5-8, 2018.
- Society of Forensic Toxicologists Annual Meeting, Minneapolis, MN October 8-12, 2018.
 - Workshop: Risky Business: The dance between ISO/IEC 17025:2017's Risk Based Requirements and Forensic Toxicology Laboratories.

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- ANAB Laboratory Assessment-Toxicology Assessor, Little Rock, AR April 30-May 3, 2018.
 - Organization of Scientific Area Committees (OSAC) Meeting, Chicago, IL March 13-16, 2018.
 - Colorado Drug Recognition Expert (DRE) Conference, Pueblo, CO February 26-28, 2018.
 - American Academy of Forensic Sciences Annual Meeting, Seattle, WA February 21-23, 2018.
 - National Institute of Justice (NIJ) - Technical Working Group (TWG) Toxicology & Drug Chemistry, Washington DC, February 7-8, 2018.
 - Society of Forensic Toxicologists Annual Meeting, Boca Raton, FL January 7-11, 2018.
- 2017**
- Colorado Coroner's Association Annual Meeting, Grand Junction October 04, 2017.
 - Marijuana DUI Investigations with Green Lab. Grand Junction, CO Sept. 19-20, 2017.
 - International Association of Chiefs of Police Drug Recognition Expert (IACP-DRE) Annual conference, National Harbor, MD August 12-14, 2017.
 - CDOT Highway Safety Office Road Health Summit, Breckenridge, CO July 10-11, 2017.
 - Colorado Coroners Association Annual 3-Day Meeting, Colorado Springs, CO June 7-9, 2017.
 - California Association of Toxicologists Semi Annual meeting, San Diego, CA May 5-6, 2017.
 - ASCLD Leadership Academy (40 hours), ASCLD, Dallas, TX January 26-April 13, 2017 & April 30-May 1, 2017.
 - ASCLD-LAB Assessment - Alaska Crime Detection Laboratory, January 30-February 2, 2017.
 - American Academy of Forensic Sciences annual meeting, New Orleans, LA (3 days).
 - Workshop: The Opioid Epidemic: Trends, Challenges, and a Path Forward.
 - Participation in the 2017 OSAC Toxicology Sub-committee meeting, Leesburg, VA (April-3 days).
 - International Association for Chemical Testing (IACT) Annual Meeting, Colorado Springs, CO (April-1 day).
- 2016**
- Participation in the 2016 OSAC Toxicology Sub-committee meeting, Leesburg, VA (3 days).
 - American Academy of Forensic Sciences annual meeting, Las Vegas, NV (5 days with workshops).
 - Workshop: Advanced MS Techniques for Forensic Analysis: What does the future hold.
 - Workshop: Vaping: What you don't know about Electronic Cigarettes - And why you should care.
 - CBI New Supervisor Training, Denver, CO.
 - Wisconsin State Laboratory of Hygiene Medical Examiner Symposium (1 day).
 - "Time Management 360 degrees", Denver, CO (1 day).
 - Participation in the OSAC Toxicology Sub-committee meeting, Phoenix, AZ (3 days).
 - Society of Forensic Toxicologists annual meeting, Dallas, TX (5 days with workshops).
 - Workshop: Alcohol Concentration Extrapolation.
 - Workshop: Toxicology of Designer Benzodiazepines and Opioids.
 - Workshop: Lean Six Sigma White Belt Training.
 - Participation in Consensus Meeting of the National Safety Council (NSC) DUID Laboratory Survey Project, Philadelphia, PA (1.5 days).
 - Participation in the National Institute of Justice (NIJ) sponsored Forensic Science Technology Working Group (TWG) meeting, Washington D.C. (1.5 days).
- 2015**
- American Academy of Forensic Sciences annual meeting, Orlando, FL.
 - ASCLD-LAB Assessors Training Course, Denver, CO.
 - Postmortem Toxicology: From Autopsy to Interpretation, SOFT, Atlanta GA.
 - Managing a Forensic Toxicology Laboratory: A New Mindset and Approach, SOFT, Atlanta, GA.
 - Quality in Laboratories, Finding the Balance, SOFT, Atlanta, GA.
 - Society of Forensic Toxicology annual meeting, Atlanta, GA.

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2014

- Root Cause Analysis - When Blaming the Analyst Completely Misses the Point Workshop, AAFS, Seattle, WA.
- The Opioid Epidemic and the Medical Examiner Recommendations for the Investigation, Diagnosis, and Certification of Deaths Related to Opioid Drugs, NAME Interim Program, Seattle, WA.
- A Practical Approach to Calculating and Reducing Uncertainty of Measurement in the Laboratory, SOFT, Grand Rapids, MI.
- American Academy of Forensic Sciences annual meeting, Seattle, WA.
- Society of Forensic Toxicologists annual meeting, Grand Rapids, MI

2013

- Melendez-Diaz, Bullcoming, and Williams: Scientific Evidence and the Right to Confrontation, AAFS, Washington DC
- A National Forensic Sciences Enterprise and Transparency in Forensic Science: Legal and Practitioner Views on our Path Forward, AAFS, Washington DC
- High Profile Cases in Toxicology-Lessons Learned, SOFT, Orlando, FL
- SWGTOX Standard Practices for Method Validation in Forensic Toxicology, SOFT, Orlando, FL
- Marijuana: Old Drug, New Data, SOFT, Orlando, FL
- California Association of Toxicologists Bi-annual meeting, Las Vegas, NV
- American Academy of Forensic Sciences annual meeting, Washington DC
- Society of Forensic Toxicologists annual meeting, Orlando, FL

2012

- Using Pharmacokinetics to Analyze Forensic Toxicology Cases, AAFS, Atlanta, GA
- Robert F. Borkenstein Course of Effects of Drugs on Human Performance and Behavior, Indiana University Center for Studies of Law in Action, Philadelphia, PA.
- Drug Recognition Expert School (DRE)-Completion of Classroom Education portion only, Los Angeles Police Department, Los Angeles, CA
- Laboratory Management for Dummies...and Smarties, Too! It's a Generational Thing, SOFT, Boston, MA
- Uncertainty of Measurement-Reporting for the Forensic Community, SOFT, Boston, MA
- California Association of Toxicologists Bi-annual meeting, Glendale, CA & San Jose, CA
- American Academy of Forensic Sciences annual meeting, Atlanta, GA
- Society of Forensic Toxicologists annual meeting, Boston, MA

2011

- Tips and Tricks to Improve the Interpretative Value of Postmortem Toxicology, AAFS, Chicago, IL
- K2 and Beyond: A Synthetic Cannabinoid Primer, AAFS, Chicago, IL
- Scientific Writing for Dummies and Smarties Too!, SOFT, San Francisco, CA
- Forensic Toxicologist Expert Witness Testimony: What to Expect and how to Prepare" San Francisco, CA
- California Association of Toxicologists Bi-annual meeting, Napa, CA
- American Academy of Forensic Sciences annual meeting, Chicago, IL
- Society of Forensic Toxicologists annual meeting, San Francisco, CA

2010

- Pharmacology for Forensic Toxicologists, SOFT Continuing Education, Albany, NY
- The Science and Art of Teaming, FBI sponsored Crime Laboratory Development Symposium, Cincinnati, OH
- Getting the Most from ELISA: Tips and Tricks for the Professional Toxicologist, SOFT, Richmond, VA

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- To Err is Human...to Identify it is Devine, SOFT, Richmond, VA
 - American Academy of Forensic Sciences annual meeting, Seattle, WA
 - California Association of Toxicologists Bi-annual meeting, Sacramento, CA
 - American Academy of Forensic Sciences annual meeting, Seattle, WA
 - Society of Forensic Toxicologists annual meeting, Richmond, VA
- 2009**
- Emotionally Intelligent Manager, FBI sponsored Crime Laboratory Development Symposium, Madison, WI
 - Scientific Presentation Best Practices and Use of PowerPoint, SOFT, Oklahoma City, OK
 - Crawford Motions: The Right to Confrontation & How Recent Rulings May Affect Forensic Laboratory Management and Expert Testimony, Oklahoma City, OK
 - Newer' Prescription Drugs: Impairment Potential & Identified Polypharmacy, Oklahoma City, OK
 - California Association of Toxicologists Bi-annual meeting, Reno, NV & San Francisco, CA
 - American Academy of Forensic Sciences annual meeting, Denver, CO
 - Society of Forensic Toxicologists annual meeting, Oklahoma City, OK
- 2008**
- Midwest Forensic Resource Center Toxicology Symposium, University of Iowa, Ames, IA
 - ASCLD-LAB International Preparation Course, ASCLD-LAB, Portland, OR
 - California Association of Toxicologists Bi-annual meeting, Redondo Beach, CA
 - American Academy of Forensic Sciences annual meeting, Washington DC
 - Society of Forensic Toxicologists annual meeting, Phoenix, AZ
- 2007**
- Toxicology Jeopardy-A Practical Approach to DUID Testing, SOFT, Raleigh-Durham, NC
 - California Association of Toxicologists Bi-annual meeting, Phoenix, AZ
 - Society of Forensic Toxicologists annual meeting, Raleigh-Durham, NC
- 2006**
- Organizational Communication, FBI sponsored Crime Laboratory Development Symposium, Atlanta, GA
 - Method Validation and Measurement of Uncertainty for Dummies...and Smarties, Too, SOFT, Austin, TX
 - Postmortem Pharmacokinetics-The Good, The Bad, and The Ugly, SOFT, Austin, TX
 - How Does Your QA/QC Program Measure Up?, SOFT, Austin, TX
 - California Association of Toxicologists Tri-annual meeting, Palm Springs, CA, San Francisco, CA & San Diego, CA
 - Society of Forensic Toxicologists annual meeting, Austin, TX
- 2005**
- Preparing Future Leaders, FBI sponsored Crime Laboratory Development Symposium, Ann Arbor, MI
 - The Postmortem Blood Drug Screen: Analytical and Managerial Approaches, SOFT, Nashville, TN
 - Postmortem Toxicology Interpretation, SOFT, Nashville, TN
 - California Association of Toxicologists Tri-annual meeting, Las Vegas, NV, Anaheim, CA & Sacramento, CA
 - Society of Forensic Toxicologists annual meeting, Nashville, TN
- 2004**
- FBI Symposium Workshop, Washington, DC
 - Society of Forensic Toxicologists annual meeting, Washington DC

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- California Association of Toxicologists Tri-annual meeting, Tempe, AZ, Pasadena, CA & Oakland, CA
- 2003**
- Forensic Toxicology of Methadone Workshop, SOFT, Portland, OR
 - Feeling Blue? Antidepressant Workshop! SOFT, Portland, OR
 - California Association of Toxicologists Tri-annual meeting, Culver City, CA & Albuquerque, NM
 - American Academy of Forensic Sciences annual meeting, Chicago, IL
- 2002**
- California Association of Toxicologists Tri-annual meeting, San Jose, CA
 - California Association of Criminalists Bi-annual meeting, Huntington Beach, CA
- 2001**
- Society of Forensic Toxicologists annual meeting, New Orleans, LA
 - California Association of Toxicologists Tri-annual meeting, Oakland, CA & Santa Barbara, CA
 - California Association of Criminalists Bi-annual meeting, Universal City, CA
- 2000**
- Benzodiazepines: Pharmacology and Analytical Challenges Workshop, SOFT, Milwaukee, WI
 - Pharmacology and Toxicology of Drugs Used in the Treatment of Infectious Disease Workshop, SOFT, Milwaukee, WI
 - Pharmacology Reviews II: Selected Cardiovascular Drug Toxicology & Update on Pharmacogenetics Workshop, SOFT, Milwaukee, WI
 - Society of Forensic Toxicologists annual meeting, Milwaukee, WI
 - California Association of Toxicologists Tri-annual meeting, North Hollywood, CA & San Diego, CA
- 1999**
- Pharmacology Reviews I: Selected New Drugs Workshop, SOFT, San Juan, Puerto Rico
 - Pathology for Toxicologists Workshop, SOFT, San Juan, Puerto Rico
 - Society of Forensic Toxicologists annual meeting, San Juan, Puerto Rico
 - California Association of Toxicologists Tri-annual meeting, Culver City, CA & San Diego, CA
- 1998**
- Analytical Challenges with Amphetamine Analogs Workshop, SOFT, Albuquerque, NM
 - Rohypnol Detection Workshop, SOFT, Albuquerque, NM
 - Society of Forensic Toxicologists annual meeting, Albuquerque, NM
 - American Academy of Forensic Sciences annual meeting, San Francisco, CA
- 1997**
- The Pharmacology of Herbal Preparations Workshop, SOFT, Salt Lake City, UT
 - The Principles of Solid Phase Extraction, SOFT, Salt Lake City, UT
 - Why Sample Mass Spectra and Library Spectra Don't Match, SOFT, Salt Lake City, UT
 - Fetal and Pediatric Pharmacology, SOFT, Salt Lake City, UT
 - Society of Forensic Toxicologists annual meeting, Salt Lake City, UT
 - California Association of Toxicologists Tri-annual meeting, Oakland, CA & San Pedro, CA
- 1996**
- Toxicology of Inhalants Workshop, SOFT, Denver, CO
 - Fundamentals of Medical Examiner Toxicology Workshop, SOFT, Denver, CO
 - Isoenzyme - Specific Metabolism of Drugs of Forensic Interest Workshop, SOFT, Denver, CO
 - Society of Forensic Toxicologists annual meeting, SOFT, Denver, CO
 - California Association of Toxicologists Tri-annual meeting, San Diego, CA
 - California Association of Criminalists Bi-annual meeting, San Mateo, CA