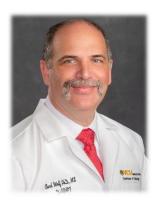
# Carl Edward Wolf II, PhD, MS, F-ABFT



Toxicology Supervisor
Assistant Professor of Pathology
Department of Pathology
Research Assistant Professor of Forensic Science
Virginia Commonwealth University

Office: 804-828-4420 Carl.Wolf@vcuhealth.org

### Education

2005 **Doctorate of Philosophy,** Forensic Toxicology, Department

of Pathology, Medical College of Virginia at Virginia

Commonwealth University, Richmond, Virginia.

Dissertation: "Prevalence of Alcohol and Drugs in Second Sample Blood Specimens from Potentially Impaired Drivers in

the Commonwealth of Virginia, 2001-2002".

1994 **Master of Science**, Forensic Science Option, Department of

Administration of Justice, Virginia Commonwealth

University, Richmond, Virginia

1986 **Bachelor of Science**, Chemistry, Gannon University, Erie, PA

#### Licenses & Certifications

2014 - present Fellow, American Board of Forensic Toxicology, Inc. Colorado

Springs, Colorado. Recertified in 2018

2012 - 2014 **Diplomate**, American Board of Forensic Toxicology, Inc. Colorado

Springs, Colorado

2001 - 2012 **Forensic Toxicology Specialist**, American Board of Forensic

Toxicology, Inc. Colorado Springs, Colorado. Recertified 2006 &

2011

#### Selected Awards & Honors

- 2024 Teaching and Mentoring Award; Society of Forensic Toxicologists, Inc. Mesa, Arizona.
- 2007 School of Medicine Teaching Excellence Award; The Educational Innovation/Educational Research Award, Virginia Commonwealth University School of Medicine, Richmond, Virginia. Chronic Non-Malignant Pain Management Curriculum.

### **Recent Grants & Funding**

- National Institute of Justice, Research and Development in Forensic Science for Criminal Justice Purposes, 15PNIJ-21-GG-04188-RESS. "The problems with Cannabinoid Analogs (Delta-8 THC, Delta-10 THC and CBD) and their metabolites detectability in urine drug testing for potential cannabinoid abuse." Principal Investigator (PI).
- 2018 National Institute of Justice, Research and Development in Forensic Science for Criminal Justice Purposes, 2017-R2-CX-0029.

  "Development of Matrix Matched Quality Control Materials and Sample Preparation Techniques for the Analysis of Marijuana Infused Products and their Application to Edible Testing", Principal Investigator (PI).
- National Institute of Justice, Research and Development in Forensic Science for Criminal Justice Purposes, 2016-DN-BX-0148.

  "Evaluation of sample preparation techniques for Matrix Effects and Absolute Recovery using UPLC-MS/MS using opiates and liver tissue specimens as the model and application to post-mortem toxicology." Co-PI.

## **Editorial Advisory Boards**

- 2018 2024 **Vice-Chairholder**, Guideline C40: Measurement Procedures for the Determination of Lead in Whole Blood, Clinical and Laboratory Standards Institute, Inc. (CLSI), Wayne, Pennsylvania
- 2020 2024 **Committee Member**, Guideline C38-A: Control of Preanalytical Variation in Trace Element Determination. Clinical and Laboratory Standards Institute, Inc. (CLSI), Wayne, Pennsylvania

2018 - 2024 **Member,** Expert Panel on Clinical Chemistry and Toxicology, Clinical and Laboratory Standards Institute, Inc. (CLSI), Wayne,

Pennsylvania

### **Professional Service**

2015 - present **Lecturer**, Ambulatory Clinic Rotation for Primary Care

Interns, Department of Internal Medicine, School of Medicine, Virginia Commonwealth University, Richmond,

Virginia.

2004 - present Mentor, Departments of Forensic Science and Medical

Laboratory Sciences, Virginia Commonwealth University,

Richmond Virginia.

2004 - present **Committee Member**, Ambulatory Pain Committee, VCU

Health, Richmond, Virginia.

2000 - present Inspector, College of American Pathologists, Northfield,

IL. Clinical Toxicology and FDT.

### **Recent Invited Presentations**

June 2024 Potentially Blemished Nature's Superfood: Cannabinoids in

Breast Milk and Participant Self-Reports of Recent Use.
Stirring the Pot: Recent Findings on Perinatal Cannabis
Exposure. The College on Problems of Drug Dependance

Meeting, Montreal, Canada.

### **Selected Publications**

Peer Reviewed Papers

**Wolf CE,** Pokhai AA, Poklis JL, Williams GR. The Cross Reactivity of Cannabinoid Analogs (Delta-8-THC, Delta-10-THC and CBD), their metabolites, and Chiral Carboxy HHC metabolites in Urine of Six Commercially Available Homogeneous Immunoassays. J Anal Toxicol. 2023, https://doi.org/10.1093/jat/bkad059.

Pokhai AA, Poklis JL, Williams GR, **Wolf CE**. The Preanalytical Stability of Emerging Cannabinoid Analogs (Delta-8 THC and its Metabolites, Delta-10 THC, and Carboxy-HHC) in Urine. J Anal Toxicol. 2023, https://doi.org/10.1093/jat/bkad061.

Williams GR, Akala MA, **Wolf CE**. Detection of 58 fentanyl analogs using ARK fentanyl II and Immunalysis fentanyl immunoassays. Clin Biochem. 113:45-51, 2023. https://doi.org/10.1016/j.clinbiochem.2023.01.001.

Singh K, Alagarraju MR, **Wolf CE**, Poklis JL, Kulkarni N, Tharpe W, Joshi PH. Ivabradine toxicity: a case report. Journal of Medical Case Reports. 16:393, 2022. https://doi.org/10.1186/s13256-022-03554-w.

Provost RG, Downs JW, **Wolf CE**, Williams GR. The high cost of low quality: recurring hypoglycemia in a 63-year-old man. Clin Chem. 67(11): 1450-1454. 2021. https://doi.org/10.1093/clinchem/hvab174

Downs J, **Wolf CE**, Williams G, Cumpston KL, Kershner E, Wills BK, Negligible nux vomica: homeopathic nux vomica remedies don't contain strychnine? Toxicon, https://doi.org/10.1016/j.toxicon.2021.06.014.

Gesseck AM, Poklis JL, **Wolf CE**, Xu J, Bashir A, Hendricks-Muñoz KD, Peace MR. A Case Study Evaluating the Efficacy of an Ad Hoc Hospital Collection Device for Fentanyl in Infant Oral Fluid. J Anal Toxicol, 4 (7): 741–746, 2020, https://doi.org/10.1093/jat/bkaa069.

**Wolf CE**, Pierce KL, Dempsey SK, Nanco CR, Poklis JL, Korzun WJ. Using papaverine and its metabolites, 6-desmethyl papaverine (6-DMP) and 4, 6-didesmethyl papaverine (4, 6-DDMP) as biomarkers to improve the detection time of heroin use J Anal. Toxicol, 10.1093/jat/bkz069.

Ramnarine RS, Poklis JL, **Wolf CE**. Determination of Cannabinoids in Breast Milk using QuEChERS and Ultra-Performance Liquid Chromatography and Tandem Mass Spectrometry (UPLC-MSMS). J Anal. Toxicol. 10.1093/jat/bkz072.

**Book Chapters and Monographs** 

Williams GR, **Wolf CE**, Fentanyl Contamination in Street Drugs. Clinical and Forensic Toxicology News, 28 Feb. 2023, pp. 1–7.