

# BRIAN GERALD LEWIS, M.D.

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## EDUCATION AND TRAINING

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Banner Health, University of Arizona – Medical Toxicology Fellowship Phoenix, AZ	7/2021-6/2023
Spectrum Health, Michigan State University – Emergency Medicine Residency Grand Rapids, MI	7/2018-6/2021
University of Cincinnati College of Medicine M.D.	8/2014-5/2018
University of Dayton B.S. Summa Cum Laude	8/2010-5/2014

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## CERTIFICATES AND LICENSURES

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Medical Toxicology Board Certified – American Board of Emergency Medicine	11/2024-present
American Board of Emergency Medicine – Board Certified	6/2022-present
Michigan Medical Doctor License	8/2020-present
Arizona Medical Doctor License	8/2021-3/2024

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## ACADEMIC POSITIONS AND PROFESSIONAL SOCIETY MEMBERSHIPS

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Corewell Health Emergency Medicine Residency Medical Toxicology Rotation Director	5/2025-present
Michigan State University College of Human Medicine Medical Toxicology Rotation Director	5/2025-present
Michigan State University Clinical Associate Professor	7/2023-present
American College of Medical Toxicologists (ACMT)	7/2021-present
American College of Emergency Physicians (ACEP)	7/2017-present

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## PEER REVIEWED PUBLICATIONS

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Lewis B, Krueger J, Snow J, Padilla-Jones A, Johnson-Davis K, Curry S. “Blood transfusion effects on phosphatidylethanol concentrations” *Under review*.

Lindemann E, Eswine S, Lewis B. Minoxidil Overdose. *Under review*.

Hughes A, Amaducci A, Campleman SL, Li S, Costantini M, Spyres MB, Spungen H, Kent J, Falise A, Culbreth R, Wax PM, Brent J, Aldy K; Toxicology Investigators Consortium Study Group. The Toxicology Investigators Consortium 2023 Annual Report. *J Med Toxicol*. 2024 Oct;20(4):350-380. [Contributor]

Behmlander A, Lewis B, Judge B, Riley B, Fleeger T. Acute Toxicity Associated with Cannabis Use: Smoking Versus Snacking. *Medical Student Research Journal*. Fall 2023;11(Special issue):40.

Amaducci AM, Campleman SL, Li S, Karshenas DL, Spyres MB, Farrugia LA, Kang AM, Culbreth RE, Wax PM, Brent J, Aldy K; Toxicology Investigators Consortium Study Group. The Toxicology Investigators Consortium 2022 Annual Report. *J Med Toxicol*. 2023 Oct;19(4):313-340. [Contributor]

Lewis B, Brooks D, Dion C, Schwebach C. “Toxicokinetics of metformin overdose treated with CVVHDF” *Am J Emerg Med*. March 2023.

Love, J.S., Karshenas, D.L., Spyres, M.B. et al. The Toxicology Investigators Consortium Case Registry—the 2021 Annual Report. *J. Med. Toxicol.* 18, 267–296 (2022). [Contributor]

Lewis B, Judge B, on behalf of the Toxicology Investigators Consortium. “Gastrointestinal decontamination: Recent utilization trends” *Am J Emerg Med.* 2022 Jun;56:257-258.

Lewis B, Nelson G, Vu T, Judge B. “No laughing matter – myeloneuropathy due to heavy chronic nitrous oxide abuse” *Am J Emerg Med.* 2021 Aug;46:799.e1-799.e2.

Lewis B, Fleegeer T, Judge B, Jones JS. “Acute toxicity associated with cannabis edibles following decriminalization of marijuana in Michigan” *Am J Emerg Med.* 2021 Aug;46:732-735.

Lewis B, Leach E, Mugri F, et al. “Community-based study of cannabis hyperemesis syndrome” *Am J Emerg Med.* 2021 Jul;45:504-505.

## **NON-PEER REVIEWED PUBLICATIONS**

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Lindemann E, Lewis B. “ACMT Toxicology Visual Pearls: ‘Not very A-peel-ing’” ALiEM. June 2025

Lewis B, Hawk K, Dion C, Makar G. “Articles you might have missed” *Med Toxicol.* Accepted July 2022.

Lewis B, Brooks D. “Blood transfusion causing false positive Peth” *Forensic Toxicol.* Accepted July 2022.

Lewis B, Nelson G, Vu T, Judge B. “ACMT Toxicology Visual Pearls: ‘I have a nanging feeling about this’” ALiEM. Oct 2020.

Hamersma Z, Lewis B, Jones JS: “Can Emergency Department Patients Remove Their Own Non-absorbable Sutures at Home?” *BestBETs* April 2020; Accident and Emergency Department, Manchester Royal Infirmary

## **PRESENTATIONS AND INVITED LECTURES**

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Lindemann E, Lewis BG, Ouellette L, Jones JS. “Hair-Raising Emergency: Managing a Minoxidil Overdose in a 17-Month-Old Infant” NACCT. September 2025.

Loonen S, Park J, Michmerhuizen B, Shah A, Lindemann E, Decker B, Ky A, Bishay D, Lewis B, Krohmer J, Jones J. “Emergency Preparedness in Michigan: Lessons from Hazardous Chemical Accident Data during 2021-2024” NACCT. September 2025.

Dean L, Lindemann E, Bartkowiak C, King D, Ulrich E, Skyler S, Lewis BG, Jones JS. “A Content Analysis of Alcohol Consumption Trends Among Youth Using Social Media” ACEP Scientific Assembly. September 2025.

Lindemann E, Loonen S, Shah A, Michmerhuizen B, Decker B, Ky A, Park J, Bishay D, Lewis B, Krohmer J, Jones J. “Assessing Hazardous Chemical Accidents: A Data-Driven Study of Incidents in the United States During 2021-2024” ACEP Scientific Assembly. September 2025.

Katuna J, Lewis B. “Numbness” ACMT Clinical Pathological Case Competition. NACCT. September 2025.

Lewis B. “Drug Induced Seizures” Presentation at Corewell Health Emergency Medicine Residency and Pediatric Emergency medicine joint conference. May 2025.

Lindemann E, Lewis B. “Hair-Raising Emergency: Managing a Minoxidil Overdose in a 17-Month-Old Infant” Corewell Health Research Day. May 2025.

Lewis B, Krueger J, Snow J, Padilla-Jones A, Johnson-Davis K, Curry S. “Blood transfusion effects on phosphatidylethanol concentrations” ACMT Annual Scientific Meeting. April 2025.

Lewis B. “Cardiac Toxins” Presentation at Corewell Health Emergency Medicine Residency and Pediatric Emergency medicine joint conference. January 2025.

Lewis B. “Acetaminophen” Presentation at Corewell Health Emergency Medicine Residency conference. October 2024.

Lewis B. “Drug Induced Seizures” Presentation at Corewell Health Pediatric Emergency Medicine Fellowship conference. January 2024.

Behmlander A, Lewis B, Judge B, Riley B, Fleeger T. “Acute Toxicity Associated with Cannabis Use: Smoking Versus Snacking” Midwest Regional SAEM. September 2023.

Lewis B. “Where did all the heroin go? Fentanyl and novel opioids” Lecture at EMS Gamechangers. Phoenix. February 2023

Lewis B. “The other type of pediatric fever” Presentation at Phoenix Children’s Hospital Pediatric Emergency Medicine Fellowship conference. February 2023

Lewis B, Brooks D, Dion C, Schwebach C. “Toxicokinetics of metformin overdose treated with CVVHDF” Accepted for poster presentation at NACCT September 2022.

Lewis B. “Household Poisoning” Presentation at Phoenix Children’s Hospital Pediatric Emergency Medicine Fellowship conference. August 2022.

Lewis B. “Drug Induced Seizures” Presentation at Phoenix Children’s Hospital Pediatric Emergency Medicine Fellowship conference. May 2022.

Lewis B, Pappas D, Books D. “Misguided Home Care Causing Severe Tissue Damage Following Rattlesnake Envenomation” Poster presentation at ACMT Annual Scientific Meeting. March 2022.

Lewis B. “Acetaminophen” Presentation at Maricopa County Emergency Medicine Residency conference. August 2021.

Lewis B, Judge B, Riley B, Fleeger T, Jones J. “Acute Toxicity Associated with Cannabis Use: Smoking Versus Snaking” Oral presentation. SAEM Annual Meeting. April 2021.

Lewis B, Judge B. “Gastrointestinal Decontamination: Trends from the ToxIC Case Registry, A Five-Year Review” Poster presentation at ACMT Annual Scientific Meeting. March 2021.

Lewis BG. “Dorsal Penile Blocks and Urologic Procedures” Presentation at Spectrum Health Emergency Medicine Residency Conference. May 2020.

Nguyen P, Lewis B, Ladaga N, Benner C. “Factors Predictive of Pediatric Burn Admission: A Retrospective Review” Retrospective database review analyzing predictors of pediatric burn admission. SAEM 2020 (cancelled COVID-19).

Lewis BG. “Accidental Tilimicosin Parenteral Exposure” Poster Presentation for Grand Rapids City Research Day (cancelled COVID-19). Presented at Spectrum Health Emergency Medicine Residency Conference. March 2020.

Lewis BG. “Toxicology in the SICU” Presentation at Spectrum Health SICU Weekly Didactics. February 2020.

Lewis BG. “Critical Case – Ricin Poisoning” Presentation at Spectrum Health Emergency Medicine Residency Conference. March 2019.

## **BOOK CHAPTERS**

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Lewis B, Spyres M. Amphetamines. In Nelson LS, et al. (12<sup>th</sup> ed.) *Goldfrank’s Toxicologic Emergencies*. Prepublication.

Lewis B, Judge B. Cardiac Glycosides. In Irwin RS, et al. (9th Ed.) *Irwin & Rippe's Intensive Care Medicine*. Philadelphia, PA: Wolters Kluwer Publishing. 2024.

## **UNPUBLISHED/ACTIVE RESEARCH**

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Lewis B, Lindemann E, Jones JS. "Taste Effects on Adult Sip Volume"

Katuna J, Lewis B. "Current fomepizole use patterns in acetaminophen overdose"

Jones JS, Lindemann E, Lewis B, Jack, Emily, Jasraj, Ted, Casey. "Comparison of Large Language Models in the Diagnosis of Challenging Toxicology Cases"

Riley B, Cardenas V, Luyendyk J, Jobe S, Lewis B. "Novel links between early changes in blood clotting factors and acetaminophen overdose-induced liver damage" Multicenter prospective study evaluating early changes in blood clotting factors after acetaminophen overdose to identify new predictors of liver injury. Enrollment ongoing.

Bartkowiak C, Dean L, Steward S, Lindemann E, Ulrich E, Lewis B, Jones JS. "Monitoring Emerging Toxicology Trends Using Social Media"

Spyres M, Lewis B, Brooks D, Pedilla-Jones A. "Pilot study: ketamine for acute pain after rattlesnake envenomation" Ongoing clinical trial.

University of Dayton Department of Biology Research Assistant

Served as a research assistant to Dr. Jayne Robinson on projects involving silver nanoparticle toxins. 2012-2014.

## **TRIAL AND DEPOSITION TESTIMONY**

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None

## **EMPLOYMENT**

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Emergency Care Specialists – Physician, Shareholder	11/2020-present
Banner Health – Medical Toxicology Fellow	7/2021-6/2023
American Physician Partners – Emergency Medicine Physician	1/2022-5/2023
CompHealth Medical Staffing – Emergency Medicine Physician	11/2021-5/2022
Spectrum Health – Emergency Medicine Resident	7/2018-6/2021

## **LEADERSHIP EXPERIENCE**

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Banner – University Medical Center Phoenix Pharmacy and Therapeutics Committee	7/2022-6/2023
Reviewer for American Journal of Emergency Medicine	9/2021-1/2023
EMRA Leadership Academy	7/2020-6/2021