

## James Leonard, PharmD, DABAT

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<https://publons.com/researcher/1457591/james-leonard/>

### Education

Doctor of Pharmacy 2012 – 2016  
Washington State University College of Pharmacy, Spokane, WA

### Licensure

Pharmacist License, Maryland 2017 – Present  
Pharmacist License, Washington State 2016 – Present

### Training

Fellowship – Clinical Toxicology 2017 – 2019  
Maryland Poison Center, Baltimore, MD  
Fellowship Director: Bruce Anderson, PharmD, DABAT

Residency – Pharmacy Practice – ASHP Accredited 2016 – 2017  
Providence St. Peter Hospital, Olympia, WA  
Residency Director: Julie McCoy, PharmD  
Leadership role: Clinical Quality

### Professional Experience

University of Maryland School of Pharmacy 2022 – Present  
Associate Professor of Practice, Science and Health Outcomes  
Research  
Associate Director, Maryland Poison Center

Maryland Poison Center 2019 – 2022  
Clinical Toxicologist/Poison Specialist  
Supervisor: Bruce Anderson, PharmD, DABAT, FAACT

University of Maryland Medical Center 2019 – Present  
Clinical Specialist, Emergency Department, part time  
Supervisor: Carla Williams, PharmD

Northwest Hospital 2019 – Present  
Pharmacist, Per Diem, Emergency Department  
Supervisor: Norbert Robinson, RPh

Fred Meyer Pharmacy 2016 – 2017  
Pharmacist, Per Diem  
Supervisor: Vijay Kaza, PharmD

Washington State University Drug Information Center, Spokane, WA 2013 – 2015

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Drug monograph author and reviewer  
Supervisor: Danial Baker, PharmD; Terri Levien, PharmD

Washington State University Veterinary Teaching Hospital  
Pharmacy Intern  
Supervisor: Jim Meyer, RPh  
2012 – 2013

### Non-Faculty Academic Appointments

University of Maryland School of Pharmacy – Preceptor  
2017 – Present

Washington State University College of Pharmacy – Adjunct Lecturer  
2016 – 2017

### Awards and Recognition

Alumni Mentor of the Year, Washington State University  
2020 – 2021

Mylan Scholarship for Excellent Students  
2016

Arby & Cathaline Baker Scholarship in Pharmacy  
2015

National Achievement Award – Pharmacy Curriculum Outcomes  
Assessment  
2015

Fred Meyer Scholarship  
2014

Margit Garthe Harrison Memorial Scholarship  
2013

### Professional Involvement and Service

University of Maryland Baltimore  
Institutional Review Board, affiliated, scientist, alternate  
member  
2022 – Present

Maryland Poison Center  
Guideline committee, active member, lead guideline  
development for several guidelines  
2017 – Present  
2019 – Present  
Poison specialist selection committee  
2019 – Present  
Clinical toxicology fellow selection committee  
2019 – Present

Department of Health Collaborations  
Opioid Fatality Review Team, Baltimore City Health  
Department  
2021 – Present  
Synthetic cannabinoids contaminated with brodifacoum,  
Centers for Disease Control and Prevention (CDC) and  
Maryland Department of Health (MDH)  
2018

University of Maryland Medical Center  
Applicant interviewer, PGY2 Emergency medicine pharmacy  
residency  
2019 – Present  
2020 – Present  
Applicant reviewer, PGY2 Emergency medicine pharmacy  
2022

Updated: 10-27-22

residency

American Association of Poison Control Centers  
 Data access committee, Chair 2021 – Present  
 Fatality review committee, member 2022 – Present

American Academy of Clinical Toxicology 2017 – Present  
 NACCT Abstract reviewer, yearly 2018 – Present  
 Peer reviewer, Clinical Toxicology 2019 – Present  
 Paracetamol (acetaminophen) Toxicology Collaboration 2021 – Present

Rho Chi Honor Society 2014  
 Secretary 2014 – 2015  
 Therapeutics Manual Co-Chair 2014 – 2015

American Society of Health-System Pharmacists 2013 – Present  
 ASHP Midyear Abstract reviewer 2018 – Present  
 ASHP Midyear student and resident poster mentor 2018

### Certifications

Diplomate of the American Board of Applied Toxicology (ABAT), a  
 subcommittee of the American Academy of Clinical Toxicology (AACT) 2019

Teaching Certificate – University of Maryland School of Pharmacy 2018

Teaching Certificate – Washington State University College of Pharmacy 2017

CITI Human Research and Good Clinical Practice Training 2015 – Present

FEMA: Introduction to the Incident Command System for  
 Healthcare/Hospitals 2014, 2021

APhA Immunization Certification 2013

Advanced Cardiac Life Support 2016 – Present

BLS/CPR Healthcare Provider 2012 – Present

### Consulting

Individual consulting for Westat. Contributed to the annual  
 reports for the Drug Abuse Warning Network (DAWN). 2022 – Present  
 Contracted with company but work on national government  
 project.  
 Paid

### Community Service

Maryland Responds 2021 – Present

Carroll County Covid-19 vaccination clinics 2021

Gamber Volunteer Fire Department

November 2021 – Present

## Original Research Published in Peer Reviewed Journals

1. Husak N\*, **Leonard JB**, Seung H, Klein-Schwartz W. Single-substance trazodone exposures reported to US poison centers from 2000 to 2019. *Clin Toxicol (Phila)*. 2022 Apr 27. DOI: 10.1080/15563650.2022.2068423
2. Laudone TW, **Leonard JB**, Hines EQ, Seung H, Klein-Schwartz W. Changes in unintentional cannabis exposures in children 6 months to 5 years reported to United States poison centers during the first nine months of the coronavirus-19 pandemic. *Clin Toxicol (Phila)*. 2022 Apr 26. DOI: 10.1080/15563650.2022.2064867
3. **Leonard JB**, Laudone TW, Hines EQ, Klein-Schwartz W. Critical care interventions in children aged 6 months to 12 years admitted to pediatric intensive care unit after unintentional cannabis exposures. *Clin Toxicol (Phila)*. 2022 Apr 6. DOI: 10.1080/15563650.2022.2059497.
4. Minhaj FS\*, **Leonard JB**, Seung H, Anderson BD, Klein-Schwartz W, King JD. *In vitro* analysis of n-acetylcysteine (NAC) interference with the international normalized ratio. *Clin Toxicol (Phila)*. 2022 Apr;60(4):489-92. DOI: 10.1080/15563650.2021.1979232.
5. **Leonard JB**, Minhaj FS\*, Paterson E, Klein-Schwartz W. Exposures in pregnant patients reported to United State poison centers. *Clin Toxicol (Phila)*. 2022 Mar;60(3):356-361. DOI: 10.1080/15563650.2021.1968420.
6. Minhaj FS\*, **Leonard JB**, Klein-Schwartz W. Clinical effects and outcomes of perampanel overdoses reported to U.S. poison centers. *Clin Toxicol (Phila)*. 2022 Feb;60(2):239-242. DOI: 10.1080/15563650.2021.1945083.
7. Minhaj FS\*, **Leonard JB**. A description of the clinical course of severe benzonatate poisonings reported in the literature and to NPDS: A systematic review supplemented with NPDS cases. *Hum Exp Toxicol*. 2021 Dec;40(12\_suppl):S39-S48. DOI: 10.1177/096032712111030560.
8. Minhaj FS\*, **Leonard JB**, Seung H, Klein-Schwartz W. Time to peak INR rise in acute and acute on chronic warfarin overdoses. *J Cardiovasc Pharmacol*. 2021 Sep 1;78(3):474-479. DOI: 10.1097/FJC.0000000000001070.
9. Minhaj FS\*, **Leonard JB**. Evaluation of level of care for toxic alcohol ingestions receiving fomepizole: a case series. *Am J Emerg Med*. 2021 Mar 9:S0735-6757(21)00202-3. DOI: 10.1016/j.ajem.2021.03.016
10. **Leonard JB**, Seung H, Klein-Schwartz W. Impact of a drug safety communication on the severity of benzonatate exposures reported to poison centers. *Pharmacoepidemiol Drug Saf*. 2021 Jan;30(1):45-52. DOI: 10.1002/pds.5136.
11. **Leonard JB**, Minhaj FS\*, Klein-Schwartz W. An analysis of fatal iatrogenic therapeutic errors reported to United States poison centers. *Clin Toxicol (Phila)*. 2021 Jan;59(1):53-60. DOI:

10.1080/15563650.2020.1766691

12. **Leonard JB**, McFadden C\*, Feemster AA, Klein-Schartz W. Analysis of iatrogenic and in-hospital medication errors reported to United States poison centers: a retrospective observational study. *Drugs Ther Perspect*. 2020;36:190-201. DOI: 10.1007/s40267-020-00723-z
13. **Leonard JB**, Hines EQ, Klein-Schwartz W. Iron packaging regulations in the United States and pediatric morbidity: a retrospective cohort study. *Clin Pediatr (Phila)*. 2020 May;59(4-5):375-379. DOI: 10.1177/0009922819901010
14. **Minhaj FS\***, King JD, Anderson BA, **Leonard JB**. Outcomes of acute exploratory pediatric lithium ingestions. *Clin Toxicol (Phila)*. 2020 Sep;58(9):881-885. DOI: 10.1080/15563650/2019.1704722
15. **Leonard JB**, Kruger Howard A, Hines EQ. Toxicity of acute exploratory amphetamine-salt medication in amphetamine-naïve pediatrics: a retrospective cohort study. *Clin Toxicol (Phila)*. 2020 Sep;59(9):907-912. DOI: 10.1080/15563650.2019.1703997
16. Mahonski SG, **Leonard JB**, Gatz JD, Seung H, Haas EE, **Kim HK**. Prepacked naloxone kit administration for suspected opioid overdose in the era of illicitly manufactured fentanyl: a retrospective study of regional poison center data. *Clin Toxicol (Phila)*. 2020;58(2):117-123. DOI: 10.1080/15563650.2019.1615622.
17. **Leonard JB**, Klein-Schwartz W. Characterization of intentional-abuse venlafaxine exposures reported to Poison Control Centers in the United States. *Am J Drug Alcohol Abuse*. 2019;45(4):421-6. DOI: 10.1080/00952990.2019.1599382.
18. **Leonard JB**, Hines EQ, Anderson BD. Prime eligible poisons: identification of Extremely Hazardous Substances available on Amazon.com®. *Clin Toxicol (Phila)*. 2020 Jan;58(1):45-48. DOI: 10.1080/15563650.2019.1594870
19. **Leonard JB**, Klein-Schwartz W. The Others: characterizing “other” therapeutic errors reported to a poison center. *Clin Toxicol (Phila)*. 2019 Jul;57(7):652-656. DOI: 10.1080/15563650.2018.1538520
20. **Leonard JB**, Klein-Schwartz W. Using a spare medication vial to store multiple medications: A potentially fatal in-home medication error [Letter]. *Am J Health-Syst Pharm*. 2019;76(5):264-265. DOI: 10.1093/ajhp/zxy037
21. **Leonard JB**, Anderson BA, Klein-Schwartz W. Does getting high hurt? Characterization of LSD and psilocybin containing mushroom exposures reported to U.S. poison centers between 2000 and 2016. *J Psychopharmacol*. 2018;32(12):1286-1294. DOI: 10.1177/0269881118793086

### Case Reports

1. Gardner-Yelton SE, **Leonard JB**, de la Uz CM, Wadia RS, **Barnes SS**. Flecainide toxicity secondary to accidental overdose: a pediatric case report of two brothers. *Care Rep Crit Care*. 2021;6633859. DOI: 10.1155/2021/6633859.

2. **Leonard JB**, Munir K, Kim HK. Metoclopramide induced pheochromocytoma crisis. *Am J Emerg Med.* 2018;36(6):1124.e1-1124.e2. DOI: 10.1016/j.ajem.2018.03.009
3. **Leonard JB**, Nair V, Diaz CJ, Penoyar JB, Goode PA. Potential drug interaction with opioid agonist in the setting of chronic low-dose opioid antagonist use. *Am J Emerg Med.* Aug 2017;35(8):1209.e3-1209.e4. DOI: 10.1016/j.ajem.2017.04.012

#### Letters to the Editor

1. **Berland NG**, **Leonard J**, Calello DP. Should the dosage cap be used in patients greater than 100 kg receiving N-acetylcysteine for acetaminophen toxicity?. *J Med Toxicol.* 2022. DOI: 10.1007/s13181-021-00871-2.
2. **Leonard JB**, Anderson BD, Duwell A. Challenges with uptake of critical health messages to healthcare providers during an outbreak of a novel health condition. *Clin Toxicol (Phila).* 2020 Sep;58(9):937-938. DOI: 10.1080/15563650.2019.1709644

#### Book Chapter

1. **Leonard JB**, Anderson, BD. Pediatric ingestions. In *PharmacotherapyFirst: A Multimedia Learning Resource*. Eds. Barbara Crouch. DOI: 10.21019/pharmacotherapyfirst.ped-ingest\_overview.

#### Review Articles

1. Minhaj FS\*, **Leonard JB**. Dangers of the TikTok Benadryl challenge. *Contemporary PEDIJ.* 2021 Jan 7;38(1)
2. **Kim HK**, **Leonard JB**, Corwell BN, Connors NJ. Safety and efficacy of pharmacologic agents used for rapid tranquilization of emergency department patients with acute agitation or excited delirium. *Expert Opin Drug Saf.* 2021 Feb;20(2):123-138. DOI: 10.1080/14740338.2021.1865911
3. **Cada DJ**, Baker DE, **Leonard J**. Sacubitril/Valsartan. *Hosp Pharm.* 2015 Nov;50(11):1025-1036. DOI: 10.1310/hpj5011-1025
4. **Cada DJ**, **Leonard J**, Levien TL, Baker DE. Ombitasvir/Paritaprevir/Ritonavir and Dasabuvir. *Hosp Pharm.* 2015;50(5):396-412. DOI: 10.1310/hpj5005-396
5. **Cada DJ**, **Leonard J**, Baker DE. Netupitant bromide and palonosetron. *Hosp Pharm.* 2015;50(4):310-325. DOI: 10.1310/hpj5004-310
6. **Leonard J**, **Baker DE**. The U.S. Food and Drug Administration Website: A Primer of Resources for Pharmacists. *Hosp Pharm.* 2015;50(11):985-993. DOI: 10.1310/hpj5011-985
7. **Leonard J**, **Baker DE**. Naloxegol: treatment for opioid-induced constipation in chronic non-cancer pain. *Ann Pharmacother.* 2015;49(3):360-365. DOI: 10.1177/1060028014560191
8. **Cada DJ**, Ingram, K, **Leonard J**, Baker DE. Umeclidinium bromide and vilanterol trifenate inhalation powder. *Hosp Pharm.* 2014;49(6):554-562. DOI: 10.1310/hpj4906-554

## Professional Meeting Posters

1. Erickson K\*, **Leonard JB**, Minhaj FS, King JS. Fomepizole – huh, yeah, what is it used for: an analysis of US poison center data on fomepizole use over 12 years (abstract). North American Congress of Clinical Toxicology. San Francisco, CA. September 16-18, 2022. International, submitted and reviewed. (Poster)
2. Minhaj FS, **Leonard JB**, Paterson E, Klein-Schwartz W. An analysis of exposures to medications contraindicated in pregnancy reported to US poison centers (abstract). North American Congress of Clinical Toxicology. San Francisco, CA. September 16-18, 2022. International, submitted and reviewed. (Poster)
3. Husak N\*, **Leonard JB**, Lam A\*. An assessment of the reliability of stated quantity in acute acetaminophen overdoses reported to a regional poison center (abstract). North American Congress of Clinical Toxicology. San Francisco, CA. September 16-18, 2022. International, submitted and reviewed. (Poster)
4. Minhaj FS, **Leonard JB**, Hines EQ, Anderson BD, Klein-Schwartz W. Pediatric edible cannabis exposures before and after statewide packaging legislation (abstract). North American Congress of Clinical Toxicology. San Francisco, CA. September 16-18, 2022. International, submitted and reviewed. (Poster)
5. Lam A\*, **Leonard JB**, Anderson BD. Teeth whitening product exposures reported to US poison centers, 2001-2020 (abstract). North American Congress of Clinical Toxicology. San Francisco, CA. September 16-18, 2022. International, submitted and reviewed. (Poster)
6. **Leonard JB**, Minhaj FS\*, Hu K, King JD, Heavner M. Fluid volume and balance within the first 72 hours of hospitalization for calcium channel blocker or beta blocker overdose: a case series (abstract). North American Congress of Clinical Toxicology. Virtual meeting, October 16-18, 2021. International, submitted and reviewed. (Poster)
7. Husak N\*, Minhaj FS\*, Anderson BD, **Leonard JB**, King JD. Severe bupropion overdose mimicking brain death necessitating prolonged extracorporeal membrane oxygenation (abstract). North American Congress of Clinical Toxicology. Virtual meeting, October 16-18, 2021. International, submitted and reviewed. (Poster)
8. Minhaj FS\*, **Leonard JB**, Seung H, Ryan E\*, King JD. Determination of risk factors associated with toxic alcohol ingestion (abstract). North American Congress of Clinical Toxicology. Virtual meeting, October 16-18, 2021. International, submitted and reviewed. (Poster)
9. Paterson E, **Leonard JB**, Minhaj FS\*, Klein-Schwartz W. Self-harm exposures in pregnant and non-pregnant cases reported to US poison centers: a case-control study (abstract). North American Congress of Clinical Toxicology. Virtual meeting, October 16-18, 2021. International, submitted and reviewed. (Poster)
10. Millwee E, Minhaj FS\*, Downs J, **Leonard JB**. Tea for two: forget the mountain wild honey –

- suspected grayanotoxin poisoning in a Nepali couple (abstract). North American Congress of Clinical Toxicology. Virtual meeting, October 16-18, 2021. International, submitted and reviewed. (Poster)
11. **Bourgeois K\***, **Leonard JB**, Minhaj FS, Anderson BD. Identifying risk factors for severe outcomes in metformin poisoning (abstract). North American Congress of Clinical Toxicology. Virtual meeting, October 16-18, 2021. International, submitted and reviewed. (Poster and platform)
  12. **Husak N\***, **Leonard JB**, Minhaj FS\*, Klein-Schwartz W. Skeletal muscle relaxants (abstract). North American Congress of Clinical Toxicology. Virtual meeting, October 16-18, 2021. International, submitted and reviewed. (Poster)
  13. **Minhaj FS\***, Lachman C\*, **Leonard JB**, King JD, Anderson BD. Evaluation of Toxicodendron inhalation exposures reported to National Poison Data System (NPDS) (abstract). American College of Medical Toxicology Annual Scientific Meeting. Virtual Meeting, April 2021. (Poster)
  14. **Leonard JB**, Minhaj FS\*, Paterson E, Klein-Schwartz W. Comparison of poisoning exposures in pregnant and non-pregnant women (abstract). American College of Medical Toxicology Annual Scientific Meeting. Virtual Meeting, April 2021. (Poster)
  15. **Minhaj FS\***, **Leonard JB**, Klein-Schwartz W. Evaluation of perampanel exposures reported to the National Poison Data System (abstract). North American Congress of Clinical Toxicology. Virtual meeting, September 10-14, 2020. International, submitted and reviewed. (Poster)
  16. **Minhaj FS\***, **Leonard JB**. What is the clinical course of severe benzonatate poisonings? (abstract). North American Congress of Clinical Toxicology. Virtual meeting, September 10-14, 2020. International, submitted and reviewed. (Poster)
  17. **Leonard JB**, Minhaj FS\*, Ferrell A, King JD. A retrospective study of dialysis in poisoning: what, when, and for how long (abstract). North American Congress of Clinical Toxicology. Virtual meeting, September 10-14, 2020. International, submitted and reviewed. (Poster)
  18. **Ryan E\***, **Leonard JB**. An assessment of the severity of copperhead bites based on extremity (abstract). North American Congress of Clinical Toxicology. Virtual meeting, September 10-14, 2020. International, submitted and reviewed. (Poster)
  19. **Minhaj FS\***, **Leonard JB**, Klein-Schwartz W. Clinical effects of acute and acute on chronic warfarin overdose (abstract). Virtual Poster Symposium. American College of Clinical Pharmacology, 2020. Annual Meeting. (Poster)
  20. **Minhaj FS\***, **Leonard JB**, Hines E. Does combining vitamin C and vitamin B 17 (amygdalin) worsen toxicity? (abstract). Congress of the European Association of Poison Centres and Clinical Toxicologists. Virtual meeting, 2020. International, submitted and reviewed. (Poster)



21. **Leonard JB**, Howard AK, Hines EQ. Assessment of weight-based dose resulting in toxicity after unintentional pediatric ingestions of amphetamines. North American Congress of Clinical Toxicology. Nashville, TN. September 25-27, 2019. International, submitted and reviewed. (Poster)
22. **Leonard JB**, Buckley TB, Gorman EF, Klein-Schwartz W. The penetration of literature describing bupropion related harm after overdose in the non-toxicology related literature: a scoping review. North American Congress of Clinical Toxicology. Nashville, TN. September 25-27, 2019. International, submitted and reviewed. (Poster)
23. Megeed A\*, Lange RL, **Leonard JB**, Hines EQ, Klein-Schwartz W. Analysis of initial management of unintentional pediatric sulfonylurea exposures reported to two poison centers (abstract). North American Congress of Clinical Toxicology. Nashville, TN. September 25-27, 2019. International, submitted and reviewed. (Poster)
24. **Millwee E**, Mestas R, **Leonard JB**. Nicotine pod ingestions, a clinical conundrum: a case series (abstract). North American Congress of Clinical toxicology. Nashville, TN. September 25-27, 2019. International, submitted and reviewed. (Poster).
25. **Leonard JB**, Klein-Schwartz W. Analysis of fatal iatrogenic therapeutic errors reported to United States poison centers (abstract). Congress of the European Association of Poison Centres and Clinical Toxicologists. May 22-24, 2019. Naples, Italy. International, submitted and reviewed. (Poster)
26. **Leonard JB**, Hines EQ, Klein-Schwartz W. Steel yourself! Trends in iron packaging regulations in the United States and pediatric morbidity (abstract). Congress of the European Association of Poison Centres and Clinical Toxicologists. May 22-24, 2019. Naples, Italy. International, submitted and reviewed. (Poster)
27. **Leonard JB**, Hines EQ, Deatrck KB, Prybys K, Kim HK. Use of veno-arterial extracorporeal membrane oxygenation in life-threatening bupropion ingestion in a pediatric patient (abstract). Congress of the European Association of Poison Centres and Clinical Toxicologists. May 22-24, 2019. Naples, Italy. International, submitted and reviewed. (Poster)
28. **Leonard JB**, McFadden C\*. Did I do that: analysis of iatrogenic and in-hospital medication errors submitted to United States poison centers (abstract). American Society of Health-System Pharmacists Midyear Clinical Meeting. Anaheim, CA. December 2-6, 2018. International, submitted and reviewed, original work. (Poster)
29. **Portman L\***, **Leonard JB**. Is knowing really half the battle: comparing the incidence of hyperthyroid symptoms in confirmed versus suspected pediatric exposures to levothyroxine (abstract). American Society of Health-System Pharmacists Midyear Clinical Meeting. Anaheim, CA. December 2-6, 2018. International, original work. (Poster)
30. **Leonard JB**, Custer JB, Hines EQ. Acute hemolysis following acetaminophen overdose in a

- patient with undiagnosed G6PD deficiency (abstract). North American Congress of Clinical Toxicology. Chicago, IL. October 25-29, 2018. International, submitted and reviewed, original work. (Poster)
31. **Leonard JB**, Ripple M, Hines EQ. Prime eligible and only \$17.00 on Amazon®: fatal sodium azide poisoning (abstract). North American Congress of Clinical Toxicology. Chicago, IL. October 25-29, 2018. International, submitted and reviewed, original work. (Poster)
  32. **Leonard JB**, Klein-Schwartz W. I get high with a little help from my... venlafaxine? (abstract). North American Congress of Clinical Toxicology. Chicago, IL. October 25-29, 2018. International, submitted and reviewed, original work. (Poster)
  33. **Leonard JB**, Klein-Schwartz W. The others: characterizing other therapeutic errors reported to a poison center (abstract). North American Congress of Clinical Toxicology. Chicago, IL. October 25-29, 2018. International, submitted and reviewed, original work. (Poster)
  34. **Leonard JB**, Klein-Schwartz W. Comparison of second substances used in patients abusing or misusing LSD and psilocybin containing mushrooms (abstract). North American Congress of Clinical Toxicology. Chicago, IL. October 25-29, 2018. International, submitted and reviewed, original work. (Poster)
  35. **Mahonski SM, Leonard JB**, Gatz D, Seung, H, Zhang M, Kim HK. Bystander naloxone administration for undifferentiated opioid overdose in the era of non-pharmaceutical fentanyl: a retrospective study of a regional poison center data (abstract). North American Congress of Clinical Toxicology. Chicago, IL. October 25-29, 2018. International, submitted and reviewed, original work. (Platform)
  36. **Leonard JB**, Couch D, Kim HK. Delayed QTc prolongation after supratherapeutic use of loperamide for diarrhea associated with irritable bowel syndrome (abstract). Congress of the European Association of Poison Centres and Clinical Toxicologists. May 23-25, 2018. Bucharest, Romania. International, submitted and reviewed. (Poster)
  37. **Leonard JB**, Anderson BD. Determination of mothball composition using carbonated sodas (abstract). Congress of the European Association of Poison Centres and Clinical Toxicologists. May 23-25, 2018. Bucharest, Romania. International, submitted and reviewed, original work. (Poster)
  38. **Leonard JB**, Fernandez A, Elko C. Pediatric methadone exposure: poison center documentation of dose and clinical effect (abstract). North American Congress of Clinical Toxicology. Vancouver, BC. October 13-15, 2017. International, submitted and reviewed, original work. (Poster)
  39. **Leonard J**, Elko C, Tyrrell A, Gardner M, McCoy J. Collaboration to improve hospital and poison center documentation in intravenous lipid emulsion cases (abstract). American Society of Health-System Pharmacists Midyear Clinical Meeting. Las Vegas, NV. December 4-8, 2016. International presentation, submitted, original work. (Poster)

### Invited Presentations

1. Into the mouths of babes and others. Poisoning in Maryland. Maryland Association of Health-System Pharmacy Fall Seminar. Continuing Education. October 28, 2022.
2. 50 Years of the Maryland Poison Center: Exploring the Roles, Values, Value, and Challenges of Poison Centers in 2022. Francis S. Balassone Memorial Lecture. University of Maryland School of Pharmacy. October 19, 2022.
3. Button battery ingestions: just keep happening and happening and happening. Catholic Charities of Baltimore. May 10, 2022.
4. Toxic alcohol poisoning and fomepizole stewardship. Lifebridge Health Preceptor development. February 9, 2022.
5. Kratom's abuse potential and associated fatalities. Should we be concerned, or leaf it alone?. Continuing Education. American Academy of Clinical Toxicology ABAT Journal Club. April 2020. Team presentation. **Leonard JB**, Cocchio C.
6. Not for human consumption. Synthetic cannabinoids and related bleeding disorders. University of Maryland School of Medicine, Department of Family Medicine. February 11, 2019.
7. Spiked Spice: a bloody mess. Maryland Association of Health-System Pharmacy Fall Seminar. Continuing Education. October 5, 2018. Invited presentation.
8. You can un-dig my heart, but should you? Controversies of digoxin immune-fab in chronic digoxin poisoning. Pharmacotherapy Rounds. University of Maryland School of Pharmacy. Continuing Education. October 5, 2018. Encore December 2018.
9. Snakes of Maryland. Northwest Hospital. June 28, 2018. Invited presentation.
10. ... and a nice chianti (case presentation). American College of Medical Toxicologists National Case Conference. March 15, 2018.
11. All about that base: appropriate use of sodium bicarbonate. Pharmacotherapy Rounds. University of Maryland, School of Pharmacy. Continuing Education. October 6, 2017.
12. Collaboration between hospital and poison center in acute overdose cases (Platform). Western States Residency Conference. May 23, 2017; San Diego, CA. Regional presentation, submitted and reviewed, original work.

### Teaching

#### University of Maryland School of Pharmacy

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|---|----------------|
| 1. PHMY 563: Pharmacotherapy of the Critically Ill Patient. Toxicologic emergencies. Lecture, readings, drug information questions, and quiz. | 2021 – Present |
| 2. PHMY 525: Comprehensive Pediatric Care. Pediatric poisoning.   | 2020 – Present |

Updated: 10-27-22

Lecture and quiz.

3. MCST 607, Module 3: Negative Physical, Psychiatric, and Social Effects of Cannabis. Lectures, readings, quizzes, learning activities. 2020 – Present
4. MCST 607, Module 1: Negative Physical, Psychiatric, and Social Effects of Cannabis. Lectures, readings, quizzes, learning activities. 2020 – Present
5. PHMY 5006: Clinical Toxicology. Anticoagulant reversal. Lecture, quiz, and case discussion. 2019
6. PHMY 5006: Clinical Toxicology. Toxic alcohols. Lecture, quiz, and case discussion. 2018 – Present
7. PHMY 5006: Clinical Toxicology. Endocrine drug poisoning. Lecture, quiz, and case discussion. 2018 – Present
8. PHMY 517: Geriatric Pharmacotherapy. Lecture and case discussion. Revised material. 2018, 2019

#### University of Maryland Medical Center

1. Toxicology Too. Internal medicine residency noon conference. 2021
2. Killer Chemicals. Emergency medicine residency weekly conference. 2020

#### Academic Toxicology Education Alliance of the Mid-Atlantic

1. TCAs and bupropion poisoning. Recurring monthly collaboration.	2021 – Present
2. Not status asthmaticus. Grand Rounds.	2021
3. Killer Chemicals. Special lectures.	2020

#### Washington State University College of Pharmacy

1. Headache, Fever, Acute Pain: Over the counter medication considerations. Pharmacotherapy 1. Revised lecture and quiz. 2017

#### Teaching Assistant

Course	Topic	Activity	Time (hours)	Semester/year
1. University of Maryland Emergency Medicine Residency	Toxicology	Adapted, set up, and coordinated toxicology escape room	4	Fall, 2021
2. PHAR 548 Abilities Lab 4	Diabetes	Insulin counseling	4	Spring/2019

3.	PHAR 5009 Medical Evidence	Systematic Reviews	Small group workshop facilitation	3	Spring/2019
4.	PHAR 5019 Abilities Lab 6	Transitions of care	Small group discussion and grading	10	Spring/2019
5.	Foundations of disease (UMSOM)	Cholinergic system	Small group discussion and case review	2	Spring/2019
6.	PHAR 505 Abilities Lab 1	IV Admixture Compounding	Demonstration and coaching of IV admixture preparation	5	Fall/2018
7.	PHMY 5000 Preparing to Apply for a Residency Program	Mock residency showcase	Mock residency showcase playing role of resident	2	Fall/2018
8.	PHMY 5000 Preparing to Apply for a Residency Program	Practice group interviews	Practice group interviews playing the role of an interviewer	2.5	Fall/2018
9.	PHAR 505 Abilities Lab 1	Drug Information	Precepted drug information question searching and answering	2	Fall/2018
10.	PHAR 5023 Professional Foundations of Pharmacy	Self-reflection	Grading ~25 student self-reflections	4	Fall/2018
11.	PHAR 5013 Self Care and Nonprescription Pharmacotherapy	Gastrointestinal disorders	Grading ~30 student SOAP notes.	6.5	Fall/2018
12.	PHAR 5006 AST 6 Endo, Women's Health, & GU	Diabetes	Group case facilitation and grading	4	Spring/2018
13.	PHAR 5009 Medical Evidence	Randomized Controlled Trials	Small group workshop facilitation	3	Spring/2018
14.	PHMY 540 Pharmacotherapy Journal Club	Journal club	Presentation of journal club to small group elective	3	Spring/2018
15.	PHAR 5009 Medical Evidence	Observational Studies	Small group workshop facilitation	3	Spring/2018
16.	PHAR 518 Abilities Lab 2	Community dispensing	Grading of practical exam	4	Spring/2018
17.	PHAR 5009 Medical Evidence	Systematic Reviews	Small group workshop facilitation	3	Spring/2018
18.	PHAR 5002 AST 2	Pain objective	Serve as model	6	Spring/2018

	Nutrition, pain, oncology OSCE	structured clinical exam	patient and grade student performance		
19.	PHAR 5009 Medical Evidence	Treatment Guidelines	Small group workshop facilitation	3	Spring/2018
20.	PHAR 5014	Self-care	Serve as model patient and grade student performance	3	Spring/2018
21.	PHMY 541 Introduction to the Poison Center	Toxicology	Grading worksheets	5	Spring/2018
22.	PHMY 541 Introduction to the Poison Center	Toxicology	Grading student presentations and case reports	5	Spring/2018
23.	PHAR 5003 AST 3: Autoimmune/Joint/Bones	SLE/Rheumatoid arthritis cases	Grading	4	Fall/2017
24.	PHAR 538 Abilities Lab 3	Drug-Drug Interactions	Case facilitation	3.5	Fall/2017
25.	PHAR 505 Abilities Lab 1	IV Admixture Compounding	Facilitation of IV preparation and sterile methods	3.5	Fall/2017
26.	PHAR 538 Abilities Lab 3	IV Admixture Compounding	Facilitation of IV preparation and sterile methods	3	Fall/2017
27.	PHAR 505 Abilities Lab 1	IV Admixture Compounding	Evaluation and grading of sterile preparation methods	4.5	Fall/2017
28.	PHAR 5013 Self Care and Nonprescription Pharmacotherapy	Allergies	SOAP note grading	6.5	Fall/2017
29.	PHAR 505 Abilities Lab 1	Communication workshop	SBAR facilitation for first-year students	3.5	Fall/2017
30.	PHMY 541 Introduction to the Poison Center	Toxicology	Grading worksheets	5	Fall/2017
31.	SOM P&T II	Toxicology	Small group case facilitation with medical students	2.5	Fall/2017

### Pharmacy Resident Precepting

University of Maryland School of Pharmacy

1. Adriana Gardner, PharmD, PGY1 pharmacy resident

Teaching Certificate

2022

James Leonard			15
2. Irene Ruiz, PharmD, PGY2 pediatrics pharmacy	Rotation		2022
3. Shelby Warring, PharmD, PGY2 pediatrics pharmacy	Rotation		2021
4. Shawnee Daniel, PharmD, PGY2 pediatrics pharmacy	Research		2019 – 2020
University of Maryland Medical Center			
1. Kayla Bourgeois, PharmD, PGY1 pharmacy resident	Research		2020 – 2021
The Johns Hopkins Hospital			
1. Savanna Scott, PharmD, PGY2 emergency pharmacy	Rotation		2022
2. Brooke Szachnowicz, PharmD, PGY1 pharmacy resident	Rotation		2022
Carroll Hospital			
1. Chaya Lachman, PharmD, PGY1 pharmacy resident	Rotation		2021

#### Other Teaching Activities

1. Core faculty of the Academic Toxicology Education Alliance of the Mid-Atlantic (A-TEAM). This is an interdisciplinary collaboration between the Maryland Poison Center, New Jersey Poison Information and Education System, and the Poison Center at Children’s Hospital of Philadelphia that teaches core toxicology information to emergency medicine residents, pediatric emergency medicine fellows, medical students, pharmacy students, and pharmacy residents. Development and maintenance of the program included identifying topics, developing syllabi, developing and revising presentations, and finding guest speakers for special topics.
2. Multidisciplinary teaching rounds including the following learners. Medical residents from the following specialties: internal medicine categorical or prelim, pediatrics, emergency medicine. Pharmacy students in APPE year. Pharmacy residents and fellows including pharmacy practice, pediatrics, emergency medicine, critical care, and toxicology.
3. Precepting between 3 and 6 pharmacy students on APPE every academic year.
4. Periodic precepting of pinnacle projects for 4<sup>th</sup> year pharmacy students

I certify that this is a complete and accurate curriculum vitae.

Updated: 10-27-22