

JONATHAN DE OLANO, MD, MAT

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Summary

Experienced emergency medicine physician and medical toxicology consultant with extensive expertise in acute care, poisonings, overdoses, medication errors, and environmental exposures.

Skills

- Emergency management of traumatic injuries including gunshot wounds, motor vehicle accidents, pedestrian injuries, burns, and orthopedic injuries.
- Poison expert and consultant for environmental, chemical and pharmaceutical toxicologic exposures.
- Clinical expert in illicit drugs, medication adverse effects, overdoses, metal exposures, envenomations, and treatment for patients with opioid use disorder.
- Procedural skills in stabilization and resuscitation of critically ill patients, including cardiac and respiratory arrest, ultrasound, airway management, laceration repair, ECG interpretation, procedural sedation, and splinting.
- Medical-legal expertise in evaluating and providing expert opinions on cases related to toxicology, including poisonings, medication errors, environmental exposures, and opioid use disorder. Experience in delivering comprehensive medico-legal reports.

Experience

Emory University School of Medicine |
Atlanta, GA

Assistant Professor

08/2019 - Current

- Expert in fields of medical toxicology and emergency medicine.
- Attending physician, educator, researcher in emergency medicine and toxicology
- National and international lecturer in topics such as drugs of abuse, hyperthermia, carbon monoxide, metals, rodenticides, pesticides, fumigants antidepressant medications, anesthetics, over the counter medications, alcohol related complications, cannabinoids, and others.
- Provided expert witness services and medico-legal consultations for cases involving toxicologic exposures, overdoses, and poisoning-related injuries.
- Attending Toxicology Attending for the Georgia Poison Center.
- Consultant for toxicologic exposures in the state of Georgia.
- Performed medico-legal evaluations and provided expert opinions for legal cases involving toxic exposures and poisoning incidents.

Georgia Poison Center | Atlanta, GA

Medical Toxicologist

08/2019 - Current

- Attending physician and manager of medical and traumatic emergencies.
- Consultant for patients with opioid use disorder.

Grady Hospital | Atlanta, GA

Emergency Medicine Physician

08/2019 - Current

Veterans Affairs Medical Center | Atlanta,
GA

Emergency Medicine Physician

06/2022 - Current

- Attending emergency physician caring for US veterans.

New York University School of Medicine |
New York, NY

Emergency Medicine Physician

10/2017 - 06/2019

- Attending emergency physician.

CityMD | New York City , NY
Urgent Care Physician
05/2018 - 06/2019

- Treated large volume of patients
- Urgent care physician

Education and Training

New York University School of Medicine | New York City, NY
Fellowship in Medical Toxicology
06/2019

New York University School of Medicine | New York City, NY
Residency in Emergency Medicine
06/2017

Emory University School of Medicine | Atlanta, GA
M.D. in Medicine
05/2013

American University | Washington, DC
Master of Arts in Teaching Secondary Education
05/2009

Georgetown University | Washington, DC
Bachelor of Arts in Anthropology
05/2007

Languages

English:

Native/ Bilingual

Spanish:

Native/ Bilingual

Accomplishments

- Turkish International Medical Toxicology Conference Co-Chair (current for 10/2022)
- Course co-director, Toxicology Seminar for Nurses, Grady Hospital, 12/8/2021

Activities and Honors

- Foundations Teacher of the Year Award, Emory University Emergency Medicine Residency, Atlanta, GA, 2020-2021
- John Stone Teacher of the Year Award, Emory University Emergency Medicine Residency, Atlanta, GA, 2020-2021
- Grady Faculty Teacher of the Year Award, Emory University Emergency Medicine Residency, Atlanta, GA, 2020-2021
- Alpha Omega Alpha Society, Emory University School of Medicine, Atlanta, GA, 2012

Certifications

- American Board of Emergency Medicine Medical Toxicology, Board Certified, 12/2020
- American Board of Emergency Medicine, Board Certified, 07/2018

Lectureship and Teaching

- Medical Student Teaching:
 - *Interactive session to teach pharmacokinetics to medical students*, Kinetics Workshop, New York University School of Medicine, New York, NY, 10/2017
- Residency Programs:
 - NYU Emergency Medicine Lecture: "Ethanol Related Complications," 05/2018
 - Emory Emergency Medicine Sim lab 8/20/2019
 - Emory Emergency Medicine Journal Club 8/28/2019
 - Emory Emergency Medicine Lecture: Hypoglycemics, 9/5/2020
 - Emory Emergency Medicine Foundations teaching, 2/25/2020
 - Emory Emergency Medicine Lecture: Salicylates, 10/6/2020
- Fellowship Programs:
 - Emory Medical Toxicology Fellowship
 - Lecture: Local/General Anesthetics, 10/23/2020
 - Lecture: Miscellaneous Metals, 12/11/2020
 - Lecture: Principle and Techniques Applied to Enhance Elimination, 12/11/2020
 - Lecture: Rodenticide, 2/19/2020
 - Lecture: Otolaryngologic Principles, 2/19/2020
 - Classic Journal Club: Carbon Monoxide, 2/21/2020
 - Lecture: Insecticides, 4/1/2020
 - Lecture: Renal Principles, 4/1/2020
 - Lecture: Toxicokinetics, 4/6/2020
 - Toxicology Olympics contributor: Physostigmine, 5/4/2020
 - Lecture: Genitourinary Principles, 5/27/2020
 - Lecture: Biochemical and Metabolic Principles, 6/10/2020
 - Classic Journal Club: TCAs, 7/1/2020
 - Lecture: Cardiac Principles, 7/1/2020
 - Lecture: Cardiac Principles II, 8/26/20
 - Lecture: Enhanced Elimination, 11/11/20
 - Lecture: Misc Metals, 11/11/20
 - Classic Journal Club: Cocaine and Hyperthermia, 11/11/20
 - Lecture: Renal Principles, 1/6/2021
 - Classic Journal Club: Mercury, 1/6/2021
 - Lecture: Biochemical and Metabolic Principles, 2/3/2021
 - Lecture: Pesticides, 2/3/2021
 - Lecture: Rodenticides, 2/3/2021
 - Lecture: Local and General Anesthetics 4/28/2021
 - Lecture: CNS depressants 4/28/2021
 - Lecture: Fumigants 3/30/2022
 - Lecture: Chemo antimetabolites 3/30/22
 - Classic Journal Club: Digoxin, 8/16/2022
 - Lecture: GI Decontamination 7/6/2022
 - Lecture: Fumigants 1/18/2023
 - Lecture: Pesticides I-II 1/18/2023
 - Classic Journal Club: Iron 8/23/2023
 - Lecture: Cardiac Principles 8/23/2023
 - Lecture: Acid Base Toxicology 8/23/2023
 - Classic Journal Club: Methylxanthines 11/8/2023
 - Lecture: Pharmacokinetics/Pharmacodynamics 11/8/2023
 - Journal Club: Grayanotoxin and Aconitine 3/6/2024
 - Lecture: Chemotherapeutics 3/6/2024
 - Lecture: Biochemical Pathways 3/13/2024
 - Lecture: General Anesthetics 3/13/2024

- Other Categories:

- *Led and debriefed a day of ECG workshop in poisoned patients for small groups of course participants;* Facilitator, The Innovative Medical Toxicology Course: ECG. New York University School of Medicine, New York, NY, 04/2018
- Toxicology Course for Physician Assistant students, 10/2019, 9/22/2020, 10/6/2021
- Toxicology Seminar for Grady Nurses, Lectures on Lithium and Salicylates, 11/17/2021, 12/8/2021

- National and International Speakerships:

- *"30 Cases, 5 Days, 2 Broken Generators,"* Department of General Surgery Grand Rounds, Emory University School of Medicine, Atlanta, GA, 2017
- CPC Competition Winner, New York University School of Medicine, New York, NY, 11/2017
- *"Thiamine: A beri beri good vitamin,"* National Journal Club, American College of Medical Toxicology, 03/2018
- *"Reversing Anticoagulation,"* Critical Care Symposium, Memorial Sloan Kettering, New York, NY, 3/2018
- *"Acid Base Toxicology,"* The Innovative Medical Toxicology Course: Core Review and Critical Updates, New York University School of Medicine, New York, NY, 4/2018
- National CPC Competition, CORD Academic Assembly, San Antonio, TX, 04/2018
- *"Modern Lethality Rate of Suspected Cyclopeptide Mushroom Poisoning in the United States,"* North American Congress of Clinical Toxicology Conference, Nashville, TN, 09/2019
- Monthly Presenter for North East Toxicology Conference: Consultants' Conference, New York City Poison Control Center, New York University School of Medicine, 07/2017 – 06/2019
- Emory Family Medicine Lecture: Family Medicine Toxicology, 5/28/2020
- Emory Neurology Lecture: Neurotoxicology Hyperthermia Disorders, 6/7/2020
- Grady Nurses Case Review: Management of Hyperthermia, 12/11/2020
- Middle East and North African Clinical Toxicology Association (MENATOX) Conference Lecture: Management of alcohol, benzodiazepine and baclofen withdrawal, 3/30/2021
- ACEP Virtual Grand Rounds Presenter: The Forgotten Electrolyte: Chloride and Acid-base, 5/25/2022
- Visiting professorship lecture, Medical Toxicology Lecture for PA students, South College, Atlanta, GA, 8/2021
- *"Respiratory Pathophysiology and Clinical Gestalt,"* Department of Emergency Medicine Grand Rounds, Emory University School of Medicine, Atlanta, GA, 09/2022
- New York City Poison Center Grand Rounds: Dyschloremia in Medical Toxicology, 10/05/2022
- New York City Poison Center Fellowship Lecture: Acid Base for Medical Toxicologist, 04/21/2023
- Visiting professorship lecture, *Approach to the Intoxicated Patient*, Webinar on Overview of Poisoning and Insight into the newly established Nepal's first Institution based Poison Information Center, 11/8/2023
- *"Alcohol Withdrawal Management,"* Frontier's in Advanced Emergency Care Conference Speaker, Decatur, GA, 9/12/2024
- *"Tox Mortality and Morbidity Hyperthermia,"* Frontier's in Advanced Emergency Care Conference Speaker, Decatur, GA, 9/13/2024

- Abstract Presentation at National/International Conferences:

- Fernández D, Hammers J, **de Olano J**, Nelson LS, Hoffman BS, Su MK. A Synthetic Cannabinoid
- Receptor Agonist (AB-Fubinaca) Associated Fatality. International Congress EAPCCT Abstract, Madrid, 2015. (Poster)
- **de Olano J***, Rothstein A, Laskowski L, Howland MA, Vassallo S, Biary R. Saturday Night Abscess: a brachial plexus abscess in an intravenous drug user. International Congress EAPCCT, Bucharest, Romania, May 2018. (Poster)
- **de Olano J***, McDonald K, Biary R, Su M. Isopropyl Alcohol Overdose Masquerading as Ethylene Glycol Toxicity. International Congress EAPCCT, Bucharest, Romania, May 2018. (Poster)
- **de Olano J***, Howland MA, Cocca M, Pereya C, Tran LK, Aung B, Su M, Hoffman RS, Biary R. Kinetics of Hydroxychloroquine Following Massive Overdose. International Congress EAPCCT, *Taylor & Francis Award Finalist*, Bucharest, Romania, May 2018. (Poster)

- Rajpal M, **de Olano J***, Nelson B, Hernandez S. Phenol toxicity from misuse of household products in a Latin American Community. North American Congress of Clinical Toxicology, Chicago, Illinois, October 2018. (Poster)
- **de Olano J***, Balogun F, Walsh C, Ramprasad C, Green D, Miller M, Howland MA, Su M. Massive Enoxaparin Overdose Partially Reversed with Low Doses of Protamine. North American Congress of Clinical Toxicology, Chicago, Illinois, October 2018. (Poster)
- **de Olano J***, Su M, Biary R, Hoffman RS. Is it Amanita Phalloides? What is the Value of a Clinical Diagnosis? North American Congress of Clinical Toxicology, Chicago, Illinois, October 2018. (Poster)
- **de Olano J***, Hadjiangelis N, Biary R. Veno-arterial extracorporeal membrane oxygenation (VA-ECMO) and hydroxocobalamin in diphenhydramine-induced cardiac arrest. 39th International Congress of the European Association of Poisons Centres and Clinical Toxicologists (EAPCCT) Naples, Italy, Clinical Toxicology, May 2019. (Poster)
- Backus T, Steger C, **de Olano J**, Olsen D. A heart-breaking case of loperamide toxicity. 39th International Congress of the European Association of Poisons Centres and Clinical Toxicologists (EAPCCT), Naples, Italy, Clinical Toxicology, May 2019. (Poster)
- Harmouche E, **de Olano J**, Mashlah Anas, Howland MA, Chiang W. Metaxalone induced serotonin toxicity and death. 39th International Congress of the European Association of Poisons Centres and Clinical Toxicologists (EAPCCT), Naples, Italy, Clinical Toxicology, May 2019. (Poster)
- Yeh M, Cavanaugh J, Eisenstat M, Therriault C, de Bruyn B, **de Olano J**. Acute Delirium Associated with Transdermal Rotigotine. ACMT 2020 Annual Scientific Meeting Abstracts, New York, NY, April 2020. (Poster)
- Gupta M, Dernbach M, Clark A, **de Olano J**. Paradichlorobenzene Systemic Toxicity Secondary to Toilet Bowl Deodorizer Ingestion: A Case Report. North American Congress of Clinical Toxicology (NACCT), Denver, CO, September 2024.
- Ebersole J, **de Olano J**. Hypothyroidism and sickle cell anemia triggered by chronic thiocyanate supplementation. North American Congress of Clinical Toxicology (NACCT), Denver, CO, September 2024.

Publications

- Hugar L, Dewberry L, **de Olano J**, Master V, Sullivan C, Srinivasan J. Trauma consults on humanitarian surgery trips: A perspective on the Haitian trauma system and the humanitarian's role. *Trauma* 16(2):103-107, March 2014
- **de Olano J**, Howland MA, Su M, Hoffman RS, Biary R. Toxicokinetics of hydroxychloroquine following a massive overdose. *Am J Emerg Med*. 2019 Dec;37(12):2264.e5-2264.e8
- **de Olano J**, Wang JJ, Viellenuve E, Gosselin S, Biary R, Su M, Hoffman RS. Current Fatality Rate of Suspected Cyclopeptide Mushroom Poisoning in the United States. *Clin Toxicol (Phila)*. 2021 Jan;59(1):24-27.
- Kiernan E, Therriault C, Eisenstat M, Nogee D, **de Olano J**. Articles You Might Have Missed. *Journal of Medical Toxicology*. Accepted, pending publication.
- **de Olano J**, Biary R. AFEM Handbook of Acute and Emergency Care, 2nd Edition; Book Chapter: *Antihistamines*, April 2019
- **de Olano J**, Biary R. Tintinalli's Emergency Medicine: A Comprehensive Study Guide, 9th Edition; Book Chapter: *Nonsteroidal Anti-Inflammatory Drugs*. 2020
- **de Olano J**. Goldfrank's Toxicologic Emergencies, 12th Edition; Octreotide (Pending)
- Holt K, **de Olano J**. What Do I Do Now; Book Chapter, *You Are Barking Up the Wrong Scorpion* (Pending)
- Underiner R, **de Olano J**. What Do I Do Now; Book Chapter, *Rats Hate This Stuff* (Pending)

Current Research

- Co-PI for ED-INNOVATION study evaluating different modalities for the treatment of opiate use disorder.