

# POISON MANAGEMENT

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**Course Directors:** Dr. Lauren Aleksunes  
[aleksunes@eohsi.rutgers.edu](mailto:aleksunes@eohsi.rutgers.edu)  
Office: EOHSI Rm 426

### Instructors:

Deepali Dixit, PharmD, BCPS  
Clinical Assistant Professor  
Robert Wood Johnson Hospital  
[Deepali0420@gmail.com](mailto:Deepali0420@gmail.com)

Steven Nerenberg, PharmD  
Clinical Assistant Professor  
St Joseph's Regional Medical Center  
[Steven.Nerenberg@pharmacy.rutgers.edu](mailto:Steven.Nerenberg@pharmacy.rutgers.edu)

Joseph Barone, PharmD, FCCP  
Dean and Professor II  
Ernest Mario School of Pharmacy  
[jbarone@pharmacy.rutgers.edu](mailto:jbarone@pharmacy.rutgers.edu)

Patrick Bridgeman, PharmD, BCPS  
Clinical Assistant Professor  
Ernest Mario School of Pharmacy  
[Patrick.bridgeman@pharmacy.Rutgers.edu](mailto:Patrick.bridgeman@pharmacy.Rutgers.edu)

Bruce Ruck, PharmD  
Adjunct Associate Professor  
NJ Poison Info and Education System  
[Bruck@njpies.org](mailto:Bruck@njpies.org)

May Nguyen, Pharm.D.  
Clinical Assistant Professor  
Ernest Mario School of Pharmacy  
[may.nguyen@rutgers.edu](mailto:may.nguyen@rutgers.edu)

**Course Description:** This class is designed to introduce the student to the clinical management of drug overdoses and poisonous substances. In addition, emphasis will also be placed on drug-induced organ dysfunction.

### Course Objectives:

- Identify, obtain and evaluate patient information including medication, laboratory, and disease state histories (including intentional and unintentional overdoses)
- Identify and define the terminology, signs, and symptoms associated with diseases and medical conditions including overdoses
  - Identify specific toxidromes associated with major drug classes
  - Identify the clinical presentation of common drug overdoses
  - Recognize toxic drug levels and other objective data in the poisoned patient
  - Recognize drug induced organ toxicity
- Identify specific mechanisms of actions, uses and indications of drug products commonly used in toxicology
  - Describe the toxicology of specific drugs, poisons and antidotes
- Identify contraindications, warnings, and precautions associated with a drug product's active and inactive ingredients
  - Recognize and describe why some people may be more prone to drug toxicity based on these contraindications and precautions
- Identify pharmacotherapeutic outcomes and endpoints
  - Recommend general poison management in the poisoned patient
  - Recommend specific antidotes for the treatment of the poisoned patient
- Identify at risk patients and populations for screening and preventative care interventions.

## LECTURE SCHEDULE

Topics	Instructors
General Poison Management I	Barone
General Poison Management II	Barone
Acid-Base Disorders in Toxicology/Toxidromes	Bridgeman
Salicylates/NSAIDS	Ruck
Acetaminophen/Toxicokinetics	Nerenberg
Digoxin	Dixit
Calcium channel and beta blockers	Dixit
MetHemoglobinemia/Cyanide/Carbon Monoxide	Nerenberg
Mushrooms/Plants and Berries	Bridgeman
Antidepressants/Serotonin Syndrome/NMS	Awad
Envenomations	Nerenberg
Caustics and Common Household Poisonings	Nguyen
Bioterrorism	Ruck
Hazmat and Chemical Warfare	Ruck
Anticoagulants	Dixit
Heavy Metals	Bridgeman
Anticonvulsants/AHS/SJS	Dixit
Hypoglycemic agents (Start Final Material)	Bridgeman
Allergens/Angioedema	Nerenberg
Sedative-hypnotics/Lithium	Bridgeman
Alcohols I	Barone
Alcohols II	Barone
Opioids	Barone
Drugs of abuse	Barone
Drugs of abuse cases	Barone