

## Toxicology/Environmental Disorders

### *Critical Update in Toxicology 2020*

Faculty: Spencer C. Greene, MD, FACEP

Having a toxicologist just a phone call away has bought much comfort to physicians across America. But what are the new issues arising? First, There have been several drug shortages affecting critical antidotes. Secondly, the rise of legal cannabis has led to a higher number of child exposures. Lastly, a discussion of exposomics: environmental effects on health, life & disease.

- Describe the uses of intravenous lipid emulsion for poisonings.
- Describe pearls & pitfalls in the use of intravenous N-Acetylcysteine therapy.
- Describe pearls & pitfalls in the use of hydroxocobalamin for smoke inhalation victims.

### *Poisoned & Bizarre! ECGs in Toxicologic Emergencies*

Faculty: Spencer C. Greene, MD, FACEP

The speaker will review common ECG findings in patients with toxicologic emergencies. An algorithmic approach will be discussed & learners will develop expertise in interpreting toxicologic ECGs.

- Review common ECG findings in patients with toxicologic emergencies.
- Describe an algorithmic approach to interpreting toxicologic ECGs.
- Develop expertise in interpreting ECGs in patients with toxicologic emergencies.

### *Still Dope: New on the Scene*

Faculty: Kurt C. Kleinschmidt, MD

What's new on the illicit drug scene? Which new drugs of abuse do you need to worry about? With a significant proportion of ED visits related to street drug abuse, the speaker will review the newest street drugs, their clinical effects, & unique aspects to their treatment based on recent literature. Current trends in drugs of abuse also will be highlighted.

- Identify the newest drugs of abuse in adults & adolescents.
- Identify signs & symptoms of intoxication from both designer drugs & old favorites.
- Develop a rational approach to the management of drug-intoxicated patients using information from recent studies.



### *Toxicology Jeopardy*

*Faculty: Amy F. Ho, MD; Todd Phillips, MD, FACEP*

What does the emergency provider need to know when walking into your next shift? During this fast-paced, information packed session, this panel of experts will each spend a few minutes sharing many pearls from the trenches about hot topics in toxicology. The group will then be available to answer your questions, debate, and/or share additional pointers with the group.

- Describe stimulant alcohol intoxication.
- Explain cannabis and kids, opiate OD, and opiate withdrawal.
- Explain synthetic drug management.

### *Depressed and Overdosed*

*Faculty: Kurt C. Kleinschmidt, MD*

25 million adults have been taking antidepressants for at least 2 years. The number of anti-depressant overdose has continued to rise. As an emergency medicine provider, we need to know how to recognize and manage TCA, SSRI and benzodiazepine overdoses.

- Discuss the management of TCA overdose.
- Discuss the management of SSRI overdose.
- Discuss the management of benzodiazepine overdose.

### *Emerging Trends: Cases in Poisoning Management*

*Faculty: Spencer C. Greene, MD, FACEP*

During this course, miss & near-miss cases in overdose recognition, treatment, & management will be discussed. What are the subtle ECG findings, labs, and/or clinical clues that point you to that potentially lethal unknown overdose? Give the right antidote & have a favorable outcome; give the wrong antidote & things could be disastrous. The speaker will compare & contrast management & treatment strategies for a variety of overdoses, highlighting newer agents as treatment choices.

- Discuss mysterious patient presentations for a variety of overdoses, such as aspirin & tricyclics.
- Describe the subtle, can't miss clues to lethal overdoses, including metabolic & cardiovascular derangements.
- Discuss current management & treatment strategies for a variety of overdose cases.

### *Environmental Emergencies Jeopardy*

*Faculty: Kelly K. Johnson-Arbor, MD, FACEP*

Come and test your knowledge in treating patients with environmental emergencies. The speaker will cover management of patients with smoke inhalation, submersion injuries, electrical injuries, hypo and hyperthermia.

- Discuss the management of smoke inhalation patients, 2- discuss the management of water submersion patients.
- Discuss the management of electrical and lightening injuries.
- Discuss the management of hypothermia patients.
- Discuss the management of hyperthermia patients.

### *Harm Reduction — If You Can't Quit At Least Be Safer*

*Faculty: Amy F. Ho, MD*

Addiction and substance abuse are major contributors to the ED patient population. Often times patients are not ready to quit, but continue to experience poor health outcomes related to their substance abuse. Here we discuss methods of harm reduction education for patients of various addictions.

- Discuss nicotine harm reduction for smokers, this will involve a dive into vaping, patches, appropriate dosing for nicotine replacement therapy, and more.
- Discuss IV drug abuse harm reduction, including safer practices for clean needles, and appropriate cleaning methods and materials for heroin (for example, fresh cotton balls, using clean water not saliva, etc.)
- Discuss general concepts of harm reduction and frame the addiction discussion beyond just abstinence only.

### *Into the Chamber: Emergency Indications for Hyperbaric Medicine*

*Faculty: Kelly K. Johnson-Arbor, MD, FACEP*

Undersea & hyperbaric medicine is an ABMS recognized subspecialty of EM for a reason. There are currently 15 approved indications for the use of hyperbaric medicine; 10 of which could be considered emergencies. Are you making these appropriate referrals or consults in your practice? The speaker will discuss the underlying physiology, diagnosis and initial management of acute diving disorders along with other emergent conditions requiring hyperbaric treatment.

- Review the underlying pathophysiology, assessment, and management of various diving-related injuries.
- Explain the approved indications for an emergency hyperbaric medicine referral.
- Describe the resources available to help make this referral.



### *Legal & Legit? Vices in the Young*

*Faculty: Amy F. Ho, MD*

This session is a fast paced discussion of what's now legal & accessible to our youth. Vaping, synthetics, edibles & pot.

- Discuss the vaping epidemic.
- Discuss complications from vaping.
- Discuss consequences of marijuana legalization.

### *Opiate Withdrawal in the ED - Treat or Street: ACEP Connect*

*Faculty: Kurt C. Kleinschmidt, MD; Alexis M. LaPietra, DO, FACEP; Arian Nachat, MD*

Interactive & provocative dive into management considerations of opiate withdrawal as it is seen in the emergency department. Should these clinical issues be addressed & if so, how? Where & how should these patients be dispositioned? These questions & more will be answered during this session.

- Identify which patients might be candidates for emergency department management of opiate withdrawal.
- Identify different therapeutic options for initial management of patients in opiate withdrawal.
- Discuss how disposition options may affect your clinical approach to these patients.

### *Wilderness Medicine*

*Faculty: Darryl J. Macias, MD*

What does the emergency provider need to know when providing care in the wilderness? During this session, the speaker will share many pearls from the field about hot topics in wilderness medicine such as cold illnesses, heat illnesses, altitude illness, submersion injuries, & wilderness improvisation. The speaker will then be available to answer your questions & share additional pointers with the group.

- Identify the latest trends in wilderness medicine.
- Discuss key pearls in the management of wilderness emergencies.
- Identify avoidable pitfalls in the management of wilderness emergencies.