

# **Toxicology: Poisonings and Overdoses**

Presented by William Banner, Jr., MD

## **Course Overview:**

A quick update of changes involved with managing ethylene glycol, ethanol, and acetaminophen overdoses. This presentation will also include reviews of antivenin use of pit viper envenomations and the diagnostic values of anion gap and osmolar gap calculations.

## **Objectives:**

1. Understand the mechanism of action of fomepizole and alcohol have in the treatment of Ethylene Glycol and Methanol poisoning.
2. Describe how acetaminophen can poison the body along with the proper treatments and monitoring parameters.
3. Compare and contrast CroFab with Wyeth Polyvalent Cortalidae.
4. Describe what serotonin syndrome is along with what drugs can cause it.
5. Calculate anion gap and osmolar gap along with being able to apply these numbers to a patient case.
6. Identify agents that can cause a metabolic acidosis.

**Target Audience:** All

**Method of Participation:** DVD included in packet

## **Faculty Biography: (William Banner, Jr., MD)**

Medical Director, Children's Hospital at Saint Francis Hospital; Co-Director, Pediatric Intensive Care Unit; Medical Director, Oklahoma Poison Control Center

Fellowship: Clinical Pharmacology, Department of Internal Medicine and Pediatrics, Arizona Health Sciences center, University of Arizona, Tucson

Residency (Straight Peds): LeBonheur Children's Hospital, University of Tennessee, Memphis

PhD, Department of Pharmacology, College of Medicine, University of Arizona,  
Dissertation Title: "Changes in Vascular Alpha-Adrenergic Receptor Mechanisms during Maturation"

Director: Sue Piper Duckles, PhD

MD: University of Tennessee College of Medicine, Memphis

BS: Physical Science (cum laude), Memphis State University

**Disclosure:**

Dr. Banner has no relevant financial relationships to disclose.

**Joint Sponsorship:**

This activity has been planned and implemented in accordance with the Essentials and Standards of the Accreditation Council for Continuing Medical Education through the joint sponsorship of Saint Francis Health System and Oklahoma Poison Control Center. Saint Francis Health System is accredited by the Oklahoma State Medical Association to provide continuing medical education for physicians.

This continuing medical education activity has been designated **1 credit hour** in Category 1 of the Physicians Recognition Award of the American Medical Association.

**CME Posttest:** See attached

**CME Evaluation:** See attached

If you have any questions, please contact Shirley Christie, Oklahoma Poison Control Center, (405) 271-5062 or e-mail [Shirley-Christie@ouhsc.edu](mailto:Shirley-Christie@ouhsc.edu).