

# **Terrorism & Chemical Weapons**

Presented by William Banner, Jr., MD

## **Course Overview:**

To review mechanisms of action, patient management problems, protection and decontamination for chemical weapons, including irritant gases, cyanide, nerve agents and blister agents.

## **Objectives:**

1. Understand the advantages, disadvantages, and costs of weapons used for mass destruction.
2. Recognize specific agents and classify them as a blister, choking, blood, or a nerve agent.
3. Classify gases as high, medium, or low solubility along with understanding the symptoms that go along with each class.
4. Explain the mechanism in which cyanide acts on the body and how the antidote works to stop it.
5. Identify nerve agents as either short or long acting.
6. Identify the mechanism of action of nerve gas agents.
7. List the symptoms that follow an exposure to a nerve agent.
8. List techniques for protection and decontamination of nerve gas agents.
9. Understand the reasoning for the agents used to treat nerve gas.
10. Identify and understand the effects of blister agents.

**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).