



## South Central Public Health Partnership

### TRAINING PROFESSIONALS TO PROTECT THE PUBLIC

<http://lms.southcentralpartnership.org/scphp>

### **Management of Radiological Casualties**

**Instructor:** Col. Joseph Contiguglia, MD, MPH&TM, MBA, USAF, MC, CFS

This course is designed to permit individuals already in possession of basic skills and knowledge of human pathophysiology in the context of both high and low dose radiological threat to review the factors most relevant to human recovery and survival. Mechanisms of injury will be examined and specific recommendations with respect to routine and critical laboratory studies and their timing will also be discussed. The characteristics of common contaminants are considered and specific therapy outlines including the recommended practices for external and internal decontamination are reviewed. Specific therapeutic procedures and guidelines for combined injury are discussed and folded into an overall milieu of therapeutic support. The topics covered in this course include:

#### **Learning Objectives**

- Describe the magnitude and nature of the radiological threat
- Define the nature of the present transnational terrorist threat
- Explain the principles of radiation injury and countermeasures
- Describe the pathophysiology of radiological injury
- List the significant psychological consequences of radiological threats
- Identify acute radiation syndrome, clinically estimate dosage and the prognosis of victims and effectively choose among management options
- Describe the principles of management of patients with internal radiological contamination
- Describe the late effects of ionizing radiation

#### **Competencies**

- Describe the public health role in emergency response in a range of emergencies that may arise.

#### *\* Bioterrorism and Emergency Readiness*

- Applies the basic public health sciences
- Identifies and retrieves current relevant scientific evidence

#### *\* Council on Linkages – Core Competencies for Public Health Professionals*

*To register for this course visit us at*  
<http://lms.southcentralpartnership.org/scphp>