Radiological & Chemical Agents of Opportunity for Terrorism (AoO):
Toxic Industrial Chemicals (TICs), Toxic Industrial Materials (TIMs) and Toxic Radiological Materials (TRMs)

No Charge for Course, Course Materials and CME Credit
BUT REGISTER BY THE DEADLINE OF 1 February 2011, in order to receive a course manual.

Register Online At: https://orise.orau.gov/reacts/capabilities/continuing-medical-education/reacts-course-registration.asp

Objectives

- Understand the concept of chemical and radiological agents of opportunity (AoO) – TICs, TIMs and TRMs.
- Identify possible terrorist use of AoO.
- Discuss past mass exposure to AoO.
- Describe the major health effects of TICs, TIMs and TRMs and other important non-volatile chemical agents.
- Identify primary treatment modalities for victims.
- Appreciate the basis for increased public health preparedness for these agents.
- Understand the psychological impact of mass casualties from such exposures.
- Understand the implementation of “first receiver” OSHA guidance.

Who Should Attend

- Emergency Medicine Physicians and Residents
- Primary Care Physicians – Occupational, General Surgery, Internal Medicine, Family Practice, Others
- Medical Residents in Emergency Medicine, Family Practice, General Surgery, Internal Medicine, Others
- Medical Directors for the Emergency Medical Services (EMS) System
- Nurses, Nurse Practitioners, Nurse Clinicians
- Physician Assistants
- Medical Students, Nursing Students, and Paramedic Students
- Pre-Hospital First Responders (EMTs and Paramedics)

Overview

In recent years, there has been growing concern that many of the most likely terrorist threats will involve “agents of opportunity” or materials that are readily available in most communities around the country.

This two-day course is designed to familiarize health care providers and others who might have a role in planning and preparations for an emergency response to toxic exposures with a variety of toxic syndromes. The course will review the medical and psychological consequences of exposures to a variety of materials.

The Radiation Emergency Assistance Center/Training Site (REAC/TS) and the American College of Medical Toxicology (ACMT) are pleased to offer this course on emergency medical response to exposures from radioactive materials and toxic chemicals. The Office of the Director of the National Center for Environmental Health and the Agency for Toxic Substances & Disease Registry (NCEH/ATSDR) at the Centers for Disease Control & Prevention (CDC) has supported independent development of a 1-day Agents of Opportunity (AoO) course by the ACMT and a 1-day course in Radiation Emergency Medicine (REM) by REAC/TS.
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<tr>
<th>Time</th>
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<tbody>
<tr>
<td>7:30am</td>
<td>Sign-In</td>
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<tr>
<td>7:45am</td>
<td>Pre-Test/Overview of the AoO Course</td>
<td>7:45am</td>
<td>Review of Day 1 &amp; Overview of Day 2</td>
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<tr>
<td>8:00am</td>
<td>Basic Ionizing Radiation Physics &amp; Radiation Protection</td>
<td>8:00am</td>
<td>Toxic Warfare: Beyond Conventional Chemical Weapons</td>
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<td>9:00am</td>
<td>Acute Radiation Syndrome (ARS)</td>
<td>9:00am</td>
<td>Toxic Gases as Terrorist Threats</td>
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<td>10:00am</td>
<td>Radiation Protection, Contamination Control &amp; Instrumentation</td>
<td>10:00am</td>
<td>Why are Cyanide &amp; Fumigants so Worrisome</td>
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<tr>
<td>11:00am</td>
<td>Acute Local Radiation Injury (LRI)</td>
<td>11:00am</td>
<td>Food, Water &amp; Medication as Vehicles for Toxic Terrorism</td>
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<td>12:00pm</td>
<td>Lunch on your own</td>
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<td>Lunch on your own</td>
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<td>1:00pm</td>
<td>Radiation Emergency Area Protocol</td>
<td>1:00pm</td>
<td>Clinical Neurotoxicology of Chemical Terrorism</td>
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<td>2:00pm</td>
<td>Radiation Sources &amp; Terrorist Scenarios</td>
<td>2:00pm</td>
<td>Terrorism by Fear &amp; Uncertainty: Delayed Toxic Syndromes</td>
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<td>3:00pm</td>
<td>Management of Internal Contamination with Radioactive Materials</td>
<td>3:00pm</td>
<td>The Psychological Impact of Mass Exposures</td>
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<td>4:00pm</td>
<td>Dressing Out &amp; Decontamination</td>
<td>4:00pm</td>
<td>After Event Medical Monitoring: Pros &amp; Cons</td>
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<td>5:00pm</td>
<td>Adjourn</td>
<td>4:50pm</td>
<td>Course Close Out, Q&amp;A, Adjourn</td>
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**Presenters:**

Doran M. Christensen, DO  
*REAC/TS Associate Director & Staff Physician*

Steve L. Sugarman, CHP MS CHCM  
*REAC/TS Health Physics Project Manager*

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Charles McKay, MD  
*University of Connecticut/ACMT*

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*University of Texas, Southwestern/ACMT*

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Produced by
The Radiation Emergency Assistance Center/Training Site (REAC/TS)

and
The American College of Medical Toxicology (ACMT)

Supported by:
The Office of the Director
The Office of Terrorism Preparedness & Emergency Response (OTPER)
National Center for Environmental Health/Agency for Toxic Substances & Disease Registry (NCEH/ATSDR)
Centers for Disease Control & Prevention (CDC)

REAC/TS is a program of the U.S. Department of Energy’s Oak Ridge Institute for Science & Education (ORISE) in Oak Ridge, TN, USA. The REAC/TS AoO TRMs course is based upon work performed under Contract #DE-AC05-06OR23100 between the U.S. Department of Energy and Oak Ridge Associated Universities that operates ORISE for the U.S. DOE. The ACMT is an independent professional society of medical toxicologists.

The Oak Ridge Institute for Science and Education designates this live activity for a maximum of 14 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

Link to the REAC/TS website for more complete information, registration form and directions to the venue: https://orise.orau.gov/reacts/capabilities/continuing-medical-education/reacts-course-registration.asp

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