

# Chemical and Radiological Agents of Opportunity for Terrorism

Toxic Industrial Chemicals (TICs), Toxic Industrial Materials (TIMs) & Toxic Radiological Materials (TRMs)

**FREE VIRTUAL COURSE | May 20-21, 2024**

## 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.

The American College of Medical Toxicology (ACMT) and the Radiation Emergency Assistance Center/Training Site (REAC/TS), in partnership with the Region 1 Regional Disaster Health Response System (RDHRS) and in collaboration with the Region 4 Southern Regional Disaster Response System (SRDRS), are pleased to offer this course on emergency medical response to exposures from radioactive materials and toxic chemicals. The Emergency Management Unit, within the Agency for Toxic Substances & Disease Registry (ATSDR) and the National Center for Environmental Health (NCEH) at the Centers for Disease Control & Prevention (CDC), supported the development of this unique course to familiarize health care providers and responders with toxic exposures. The course will review the medical and psychological consequences of exposures to a variety of chemical and radiological materials. It will include practical information regarding scene safety for such agents as high potency fentanyl analogs, inhaled irritants, and proper decontamination of a victim contaminated with radiological material.

## TARGET AUDIENCE

State & local first responders, EMTs, paramedics, emergency nurses, emergency physicians, pharmacists, emergency response coordinators, public health officials, public health professionals, industrial hygienists and others involved with chemical terrorism preparedness and response.

### Registration Info:

[www.education.acmt.net/p/CRAOT\\_May2024](http://www.education.acmt.net/p/CRAOT_May2024)

Contact: [events@acmt.net](mailto:events@acmt.net)

### Organized by



American College  
of Medical Toxicology



**REAC/TS**  
Radiation Emergency  
Assistance Center/Training Site

### In Partnership With



REGION 1  
**Regional Disaster  
Health Response  
System**



Southern Regional Disaster Response System  
HHS Region 4

## COURSE OBJECTIVES

### Chemical Agents of Opportunity for Terrorism

- Recognize the common health effects (toxicities) caused by chemical exposures
- Discuss safe and effective management strategies for chemical poison exposures.
- Identify resources that can assist in the initial recognition and management of a chemical public health emergency
- Recognize the interdisciplinary role of pre-hospital and hospital providers, public health and pharmacy in responding to a chemical event.
- Tailor activities by identifying clinical characteristics of the pharmacy practice and community and learning about diseases associated with the service population and community.

### Radiological Emergency Medical Management

- Describe the types of radiation and radiation scenarios
- Discuss Acute Radiation Syndrome (ARS)
- Describe the emergency care of patients contaminated with radioactive material
- Describe cutaneous radiation syndrome assessment and care
- List resources available to address radiation accidents
- Discuss the roles and responsibilities of emergency physicians and nurses and prehospital personnel during a radiation accident affecting a large population.
- Tailor activities by identifying clinical characteristics of the pharmacy practice and community and learning about diseases associated with the service population and community.

## FACULTY

### ACMT Faculty

#### Charles McKay, MD, FACMT

Associate Clinical Professor, University of Connecticut  
ACMT Past President

#### Paul Wax, MD, FACMT

Adjunct Professor, UT Southwestern  
ACMT Executive Director

#### Ziad Kazzi, MD, FACMT

Professor of Emergency Medicine, Emory University  
Assistant Medical Director, Georgia Poison Center  
Associate Medical Director, SRDRS

#### Emily Kiernan, DO, FAAC, FACEP

Assistant Professor  
Emergency Medicine / Medical Toxicology / Addiction Medicine  
Department of Emergency Medicine, Emory University  
School of Medicine

#### Sukhshant (Sukhi) Atti, MD

Assistant Professor, University of Alabama at Birmingham  
Associate Medical Director, Alabama Poison Information Center

#### Aaron Frey, DO

Medical toxicologist and Emergency Medicine Physician,  
WellSpan Health, York, PA  
Assistant Professor of Emergency Medicine,  
Drexel University College of Medicine

### REAC/TS Faculty

#### Carol J. Iddins, MD, FAADM

REAC/TS Director

#### Mark Ervin, MD

Associate Director, REAC/TS

#### Joshua Hayes, PhD, NRRPT

Associate Manager of Health Physics, REAC/TS

#### Dillon Vogt

Health Physicist, REAC/TS

#### Wayne Baxter, RN, EMT-P

Registered Nurse/Paramedic, REAC/TS

## AGENDA SUMMARY (ALL TIMES IN EDT)

### Day 1 | May 20, 2024 | Chemical Agents of Opportunity for Terrorism

8:45am - 8:50am	Log-In Open
8:50am - 9:00am	Opening Remarks
9:00am - 9:40am	Toxic Disasters: Beyond Conventional Chemical Weapons
9:40am - 10:00am	Chemical Explosions
10:00am - 10:40am	Toxic Gases as Threats
10:40am - 10:50am	Break
10:50am - 11:30am	Why are Cyanide & Fumigants So Worrisome
11:30am - 12:10pm	Food, Water & Medication as Vehicles for Toxic Threats
12:10pm - 1:00pm	Clinical Neurotoxicology of Chemical Threats
1:00pm - 1:30pm	Lunch
1:30pm - 2:10pm	Delayed Toxic Syndromes
2:10pm - 2:50pm	The Psychological Impact of Mass Exposures
2:50pm - 3:00pm	Break
3:00pm - 3:40pm	After Event Population Monitoring: Pros & Cons
3:40pm - 4:40pm	Scenario-Based Discussion
4:40pm - 4:50pm	Closing Remarks & Adjourn

### Day 2 | May 21, 2024 | Radiological Emergency Medical Management

8:45am - 8:50am	Log-In Open
8:50am - 9:00am	Opening Remarks
9:00am - 10:00am	Practical Radiation Physics & Radiation Protection
10:00am - 11:00am	Acute Radiation Syndrome (ARS)
11:00am - 11:10am	Break
11:10am - 12:00pm	Radiation Protection, Contamination Control & Instrumentation
12:00pm - 1:00pm	Cutaneous Radiation Injuries
1:00pm - 1:30pm	Lunch
1:30pm - 2:20pm	Radiation Emergencies for Healthcare Providers
2:20pm - 3:10pm	Common Radiation Sources
3:10pm - 3:20pm	Break
3:20pm - 4:10pm	Management of Internal Contamination
4:10pm - 5:00pm	Donning/Doffing and Decontamination
5:00pm - 5:10pm	Closing Remarks & Adjourn

## QUESTIONS?

If you have any questions, please visit the [course webpage](#) or contact [events@acmt.net](mailto:events@acmt.net)

## WC(SC)4383-052024 CHEMICAL AGENTS OF OPPORTUNITY FOR TERRORISM

### LIVE WEBCAST

CME: The Centers for Disease Control and Prevention designates this live activity for a maximum of 7.75 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

CNE: The Centers for Disease Control and Prevention designates this activity for 6.3 nursing contact hours.

CPE: The Centers for Disease Control and Prevention designated this knowledge-based event for pharmacists to receive 0.7 CEUs in pharmacy education. Once credit is claimed, an unofficial statement of credit is immediately available on TCEOnline. Official credit will be uploaded within 60 days on the NABP/CPE Monitor.

CEU: The Centers for Disease Control and Prevention is authorized by IACET to offer 0.9 CEU's for this program.

CECH: Sponsored by the Centers for Disease Control and Prevention, a designated provider of continuing education contact hours (CECH) in health education by the National

Commission for Health Education Credentialing, Inc. This program is designated for Certified Health Education Specialists (CHES®) and/or Master Certified Health Education Specialists (MCHES®) to receive up to 5.5 total Category I continuing education contact hours. Maximum advanced level continuing education contact hours available are 5.5. Continuing Competency credits available are 5.5. CDC provider number 98614.

AAVSB/RACE: This program was reviewed and approved by AAVSB RACE program for 6 hours of continuing education. Participants should be aware that some boards have limitations on the number of hours accepted in certain categories and/or restrictions on certain methods of delivery of continuing education. Please contact the AAVSB RACE program if you have any comments/concerns regarding this program's validity or relevancy to the veterinary profession.

### ENDURING (ON-DEMAND)

CME: The Centers for Disease Control and Prevention designates this enduring activity for a maximum of 7.75 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

CNE: The Centers for Disease Control and Prevention designates this activity for 6.3 nursing contact hours.

CPE: The Centers for Disease Control and Prevention designated this knowledge-based event for pharmacists to receive 0.7 CEUs in pharmacy education. Once credit is claimed, an unofficial statement of credit is immediately available on TCEOnline. Official credit will be uploaded within 60 days on the NABP/CPE Monitor.

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## WC(SC)4382-052124 RADIOLOGICAL EMERGENCY MEDICAL MANAGEMENT (REM)

### LIVE WEBCAST

CME: The Centers for Disease Control and Prevention designates this live activity for a maximum of 8 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

CNE: The Centers for Disease Control and Prevention designates this activity for 7 nursing contact hours.

CPE: The Centers for Disease Control and Prevention designated this knowledge-based event for pharmacists to receive 0.7 CEUs in pharmacy education. Once credit is claimed, an unofficial statement of credit is immediately available on TCEOnline. Official credit will be uploaded within 60 days on the NABP/CPE Monitor.

CEU: The Centers for Disease Control and Prevention is authorized by IACET to offer 0.8 CEU's for this program.

CECH: Sponsored by the Centers for Disease Control and Prevention, a designated provider of continuing education contact hours (CECH) in health education by the National

Commission for Health Education Credentialing, Inc. This program is designated for Certified Health Education Specialists (CHES®) and/or Master Certified Health Education Specialists (MCHES®) to receive up to 8 total Category I continuing education contact hours. Maximum advanced level continuing education contact hours available are 8. Continuing Competency credits available are 8. CDC provider number 98614.

CPH: The Centers for Disease Control and Prevention is a pre-approved provider of Certified in Public Health (CPH) recertification credits and is authorized to offer 3 CPH recertification credits for this program.

AAVSB/RACE: This program was reviewed and approved by AAVSB RACE program for 9 hours of continuing education. Participants should be aware that some boards have limitations on the number of hours accepted in certain categories and/or restrictions on certain methods of delivery of continuing education. Please contact the AAVSB RACE program if you have any comments/concerns regarding this program's validity or relevancy to the veterinary profession.

### ENDURING (ON-DEMAND)

CME: The Centers for Disease Control and Prevention designates this enduring activity for a maximum of 8 AMA PRA Category 1 Credits™. Physicians should claim only the credit commensurate with the extent of their participation in the activity.

CNE: The Centers for Disease Control and Prevention designates this activity for 7 nursing contact hours.

CPE: The Centers for Disease Control and Prevention designated this knowledge-based event for pharmacists to receive 0.7 CEUs in pharmacy education. Once credit is claimed, an unofficial statement of credit is immediately available on TCEOnline. Official credit will be uploaded within 60 days on the NABP/CPE Monitor.

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CPH: The Centers for Disease Control and Prevention is a pre-approved provider of Certified in Public Health (CPH) recertification credits and is authorized to offer 3 CPH recertification credits for this program.

AAVSB/RACE: This program was reviewed and approved by AAVSB RACE program for 9 hours of continuing education. Participants should be aware that some boards have limitations on the number of hours accepted in certain categories and/or restrictions on certain methods of delivery of continuing education. Please contact the AAVSB RACE program if you have any comments/concerns regarding this program's validity or relevancy to the veterinary profession.