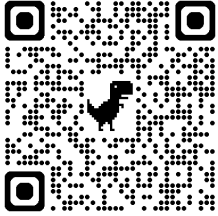


Medical Response to Radiation Emergencies – FDIC International 2026

Mark Liao, MD, NRP

Resources to Use



Mobile REMM App

EPA Radiation Guidelines

- **5 rem** – General public limit
- **10 rem** – Protect property or critical infrastructure
- **25 rem** – Lifesaving or protection of large population
- **>25 rem only** if person aware of risks, volunteers and is for lifesaving purposes
- **50 rem is the “Decision Dose” (NRC)** for incident commander to determine if there is a true need to raise limits (for time sensitive, mission critical action – need to decide if responder remain in area or pull them out)

Remember – ARS only occurs after 100 rem

For Gamma and X-Ray Radiation:

- 1 Roentgen (exposure) ~
- 1 rad (absorbed dose) ~
- 1 rem (dose equivalent)

R / h	Roentgen / hour	HAZARD!
mR/ h	Milliroentgen / hour	Watch carefully
µR / h	Microroentgen / hour	Background

Survey patients in **cpm** units (c= contamination)

Contamination = x2 times background or >1000 cpm

After clothing removal, priorities for decon are: Open wounds, Orifices , Intact skin

Contamination Countermeasures

- **Potassium Iodide (Iodine-131)**
- **Prussian Blue (Cesium, Thallium)**
- **DTPA (Transuranic elements)**

Classes to Take



REACT/S Radiation Emergency Medicine



CTOS Resident Course