Exploring Medical and Public Health Preparedness for a Nuclear Incident

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Over a Decade of Progress

• Operational Guidance
  ▪ Radiologic and nuclear events: contingency planning for hematologists/oncologists
    ✓ Blood 2008  D. Weinstock
  ▪ Radiation Triage, Treatment, and Transport
    ✓ Prehospital and Disaster Medicine 2009  C. Hrdina
  ▪ Medical Response to a Radiologic/Nuclear Event: Integrated Plan From the Office of the Assistant Secretary for Preparedness and Response, Department of Health and Human Services
    ✓ Annals of Emergency Medicine 2007  CN Coleman
  ▪ Scarce Resources for Nuclear Detonation: Project Overview and Challenges
    ✓ Disaster Medicine and Public Health Preparedness 2013  CN Coleman
  ▪ The RTR Medical Response System for Nuclear and Radiologic Mass-Casualty Incidents: A Functional Triage-Treatment-Transport Medical Response System
    ✓ Prehospital and Disaster Medicine 2012  C Hrdina
  ▪ Health Care System Planning for and Response to a Nuclear Detonation
    ✓ Disaster Medicine and Public Health 2013  J Hick
  ▪ Allocation of Scarce Resources After a Nuclear Detonation: Setting the Context
    ✓ Disaster Medicine and Public Health 2013  Knebel
  ▪ A Decision Makers Guide: Medical Planning and Response for a Nuclear Detonation
    ✓ HHS/ASPR Koerner 2015
  ▪ State and Local Planners Playbook for Medical Response to a Nuclear Detonation
    ✓ HHS/ASPR www.phe.gov 2010
Clinical Guidance

• Radiation Emergency Medical Management (REMM)
  ▪ Patient Management Guidelines
  ▪ Available from the National Library of Medicine
  ▪ www.remm.nlm.gov
Stockpiled Medical Countermeasures

- Rad/Nuc MCMs
- Burn MCMs
  - Current
  - Phase 3 late stage development (not currently in stockpile):
- Innovation: biodosimetry, innovative treatment pathways
Interagency Activities

• CDC
• FDA
  ▪ EUAs
  ▪ Regulatory agency throughout the development lifecycle
  ▪ Stockpile Extension Program
  ▪ Food safety
    ✓ Food Emergency Response Network – Radiological lead
  ▪ Critical Infrastructure Facility status during disasters
NOTIONAL Depiction of a Potential Regional Disaster Health Response System