



Decontamination Procedures



- Technical
- Emergency
- Gross
- Definitive

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Objectives

Students will be able to:


- State differences in decontamination techniques presented by NBC/ CBRNE agents vs. hazmat
- Describe decontamination levels
- Describe emergency decontamination techniques
- Describe several decontaminants

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Decontamination Differences from a Typical HazMat Incident

- Potential large number of victims
- Scene control
- Rapid response (time sensitive)
- Major resource intensive
- Run-off control (*EPA Notice on Emergency Run-off*)
- Crime scene/evidence preservation



Decontamination Levels


- **Emergency**
 - Personnel - save lives by removing agent from skin


- **Technical** = Complete (No residual hazard)

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Responder Decon Considerations

- Safety of responders
 - PPE
 - Rubber gloves
 - Minimize contact
 - Isolate
 - Avoid secondary exposure/contamination



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Decon Considerations (Continued)

- Isolate victims/casualties
 - Communicate directions
 - Away from hazard
 - Upwind, updrift, upstream
 - Segregate
 - Collect personal items
 - Strip down (when necessary)
 - For Bio & Rad. wet first

Chemical:
Blot

Strip


Flush

Cover

Biological,
Nuclear:
Wet/Spray

Strip

Flush

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Decon Considerations (Continued)

- Set up Gross Decon
 - Time is critical!
 - Large area
 - Water runoff (*EPA Notice*)
 - Segregated lanes
 - Modesty
 - Weather conditions
 - Hose lines / elevated master stream



Emergency Decon Considerations (Continued)

- Perform Decon
 - Communicate directions
 - Arms out / legs apart
 - Top down wash
 - If Mustard, blot first
 - If Bio or Rad, rinse while removing clothes

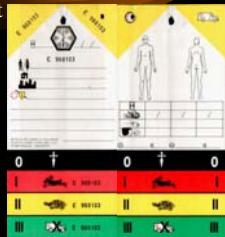


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Emergency Decon Considerations (Continued)

- Provide cover
- Establish Triage, Treatment, and Transport (T³) Area
- Do Self-Decon
 - If exposed
 - After emergency Decon operations
 - If Technical Decon is not available
- Non-ambulatory Emergency Decon
 - Minimize exposure
 - Keep clothing away from face during removal




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Decontaminants of Choice

- Water Good
- Soap & Water Better
- 0.5% Hypochlorite **NOT** for skin
(diluted household bleach) monitor equip, APR's
Butyl gloves,

Note: Bleach Solutions Can Be Corrosive to Equipment

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Key Points

- Safety of responders
- Gross & Emergency decon must be accomplished quickly
- Large number of people may require gross and/or emergency decon



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