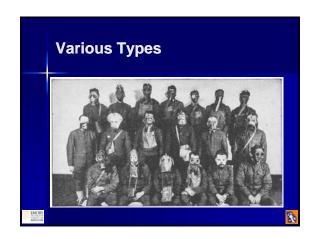


#### Discuss the different types of PPE. Describe radiological decontamination. Describe chemical decontamination. Discuss the differences between different types of decontamination.

## Ypres, Belgium, during the afternoon of 15 April 1915 Germans released150 tons of chlorine gas from some 6000 cylinders. 800 deaths. But Germans were not ready to take advantage of the British troops retreat.

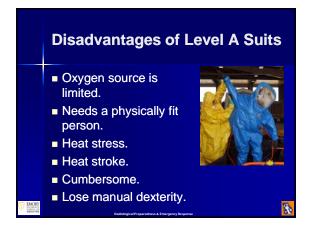


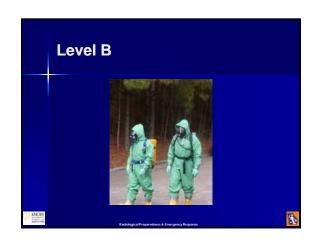


# Protective Suits Scottish soldiers particularly vulnerable to mustard burns.

## Choosing the Type of PPE Can choose PPE necessary for respiratory protection separately from PPE needed for skin protection Should use at least the minimum level for each, as appropriate













#### Decontamination Decontamination is the reduction or removal of hazardous materials such as chemical or radiological compounds. It can be done by physical removal or chemical neutralization.

# General Principles Removal of all clothing can reduce contamination on the patient up to 90%.



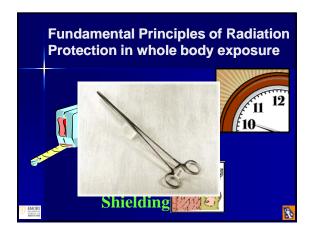
#### Whole or Partial Body Exposure to Radiation A person who was exposed to radiation is like having had an xray. Decontamination is unnecessary.

### Secondary Radiological Contamination Can occur from: Externally contaminated patients. Internally contaminated patients Can contaminate or expose others from the material inside their bodies. The body fluids (blood, sweat, urine) of an internally contaminated person can contain radioactive materials.

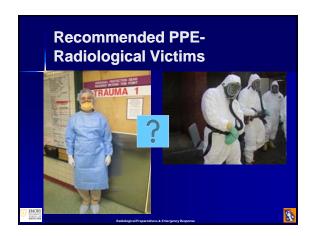








The Power of Distance			
	Distance from Source (Feet)	Radiation Dose (Gy)	
	2 feet	16	
	4 feet	4	
	8 feet	1	
EMORY TOTAL POPULATION OF THE	Radiological Preparedness s	s Emergency Response	8





## OSHA Recommendation for Hospital-Based Decon Level C Is it realistic in an a mass casualty incident? Is it necessary?





# External Screening Survey ■ To determine if a patient is contaminated with radiological material ■ May be performed if not done yet.

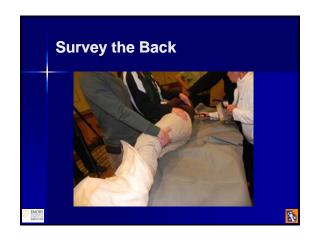








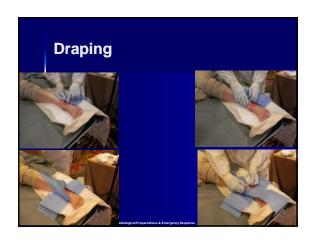






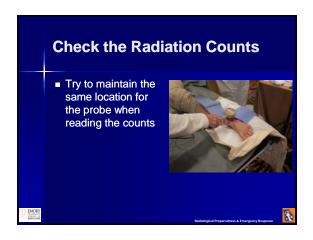
# Remember Label bag with date, patient name, time, and name of staff. Store away from patient in a designated area. Work with your RSO.

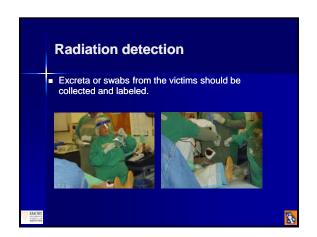




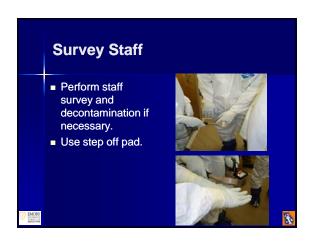








# When to Stop ■ The activity is less than twice the average background activity. ■ Decontamination efforts do not substantially reduce the activity. ■ Skin is being abraded.





## Water Disposal In a small event, collection into a separate drainage and storage system is feasible. In large mass casualty events, collection of waste effluent may not be easy. Control it to the best extent possible. ■ Control it to the best extent possible.





## Summary Points Radioactive contamination is easy to detect. Chemical contamination may be difficult to detect. Provision of life-saving treatment should take priority over radiological decontamination.

