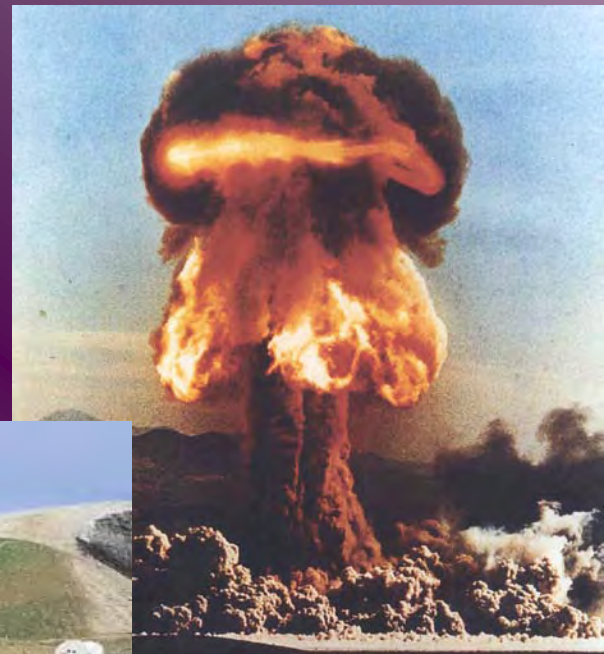




Population Monitoring
and the
Community Reception Center
Kansas Department of Health
and Environment
Radiation Control Section

WHY ARE WE NEEDED?










Community Reception Centers

Early stages:

- ☢ Pre-establish locations
- ☢ Plan and practice
- ☢ Activated after event by local EM
- ☢ First responders and volunteers dispatched
- ☢ Set up and prep for incoming public



Areas of the CRC

-  Initial Sorting
-  First Aid
-  Contamination Screening
-  Wash/Decontamination Area
-  Registration
-  Dose Assessment
-  Discharge

Let's Get Organized!!



Areas of the CRC

Contamination Screening



Areas of the CRC

Contamination Screening



Areas of the CRC

First Aid



Areas of the CRC

First Aid



Areas of the CRC

Decontamination Area



Areas of the CRC

Decontamination Area



Areas of the CRC

Decontamination Area

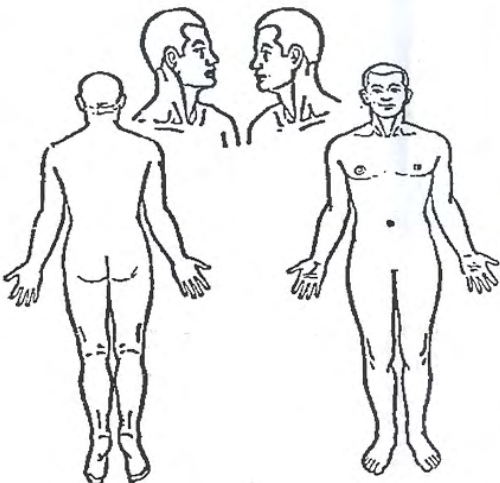
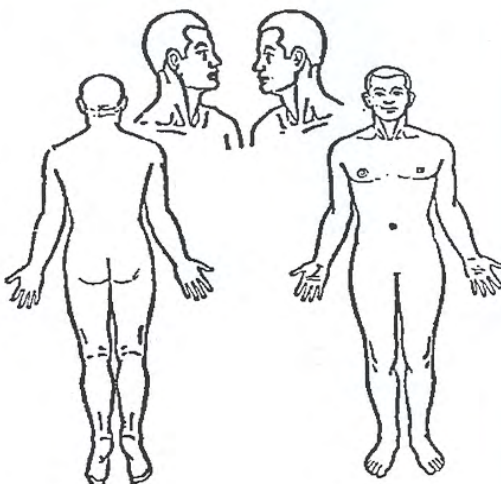
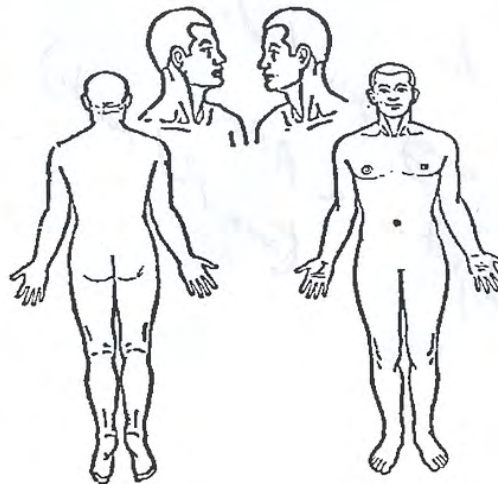


Areas of the CRC

Decontamination Area



PERSONNEL SURVEY FORM

NAME:		DATE:		TIME:	
Initial Evaluation		After First Decontamination Attempt		After Second Decontamination Attempt	
					
Radiological Survey Results:		Radiological Survey Results:		Radiological Survey Results:	
Comments:					
Acceptable Contamination Level is Less Than 300 cpm					
Evacuee Information:	Address:	Vehicle Make/Model:	Instrument Used:	Released?	
	Telephone:	Vehicle License#:	Serial#:	Sent to Hospital?	

Areas of the CRC

Registration



Special Considerations

- ☢ Scope of event
- ☢ Staffing resources
- ☢ Facilities and resources for monitoring and decon
- ☢ Size of the population to be surveyed
- ☢ Radiation survey instrumentation utilized
- ☢ Management of people and information
- ☢ Psychosocial issues
- ☢ Special populations
- ☢ Communication with the public



Special Populations

- ❖ Caregivers and service animals
- ❖ Cognitive impairment
- ❖ Language barriers
- ❖ Transportation
- ❖ Physical impairments
- ❖ Cultural beliefs



Pets



Pets Evacuation and Transportation Standards (PETS) Act

Animal Decontamination

Considerations

 Allergies

 Fear

 Aggressive animals

 Sanitation

 Supplies and temporary housing

 Owner or handler concerns

 Identification & health records



Psychological Issues



- ☢ The 'walking worried'
- ☢ Long term psychological effects
- ☢ Economic impacts
 - ☢ Migration
 - ☢ Loss of livelihood
 - ☢ Damage to infrastructure
 - ☢ Loss of transportation & communication
 - ☢ Stock market crash
- ☢ Discrimination

Three Mile Island - 1979

- ☢ Most significant accident in US history involving nuclear power
- ☢ Partial meltdown of the reactor
- ☢ No deaths or injuries
- ☢ China Syndrome released 12 days before
- ☢ Public opinion



Chernobyl - 1986

- ☢ Considered the worst nuclear power plant accident in history
- ☢ Flawed reactor design & inadequately trained personnel
- ☢ 5% reactor core released into atmosphere
- ☢ Over 30 people died, 134 cases ARS
- ☢ Large rate of childhood thyroid cancers



Goiânia, Brazil - 1987



- ☢ Powdered ^{137}Cs
- ☢ Discarded canisters from radiotherapy machine
- ☢ Contamination spread
- ☢ Discrimination
- ☢ Decreased agricultural sales
- ☢ Issued certificate of non-contamination

Goiânia, Brazil - 1987

- ☢ 249 people contaminated
- ☢ 54 people hospitalized
- ☢ 28 suffered radiation burns
- ☢ 8 displayed Acute Radiation Sickness (ARS)
- ☢ 4 people died
- ☢ 112,800 people were monitored
 - ☢ approx. 10% of the population
 - ☢ Included 730 emergency workers
- ☢ Social and economic impacts



A PLAN IS NEEDED!



**IT SHOULD BE NOTED EMPHATICALLY
THAT RADIOACTIVE CONTAMINATION IS
NOT IMMEDIATELY LIFE THREATENING
AND THEREFORE, A RADIOLOGICAL
ASSESSMENT OR DECONTAMINATION
SHOULD NEVER TAKE PRECEDENCE
OVER SIGNIFICANT MEDICAL
CONDITIONS.**

***NORMAL UNIVERSAL PRECAUTIONS ARE
ADEQUATE TO PROTECT FROM
RADIOACTIVE CONTAMINATION.***

QUESTIONS?

