

RADIOACTIVE MATERIALS SAFETY (RAM) AND EMERGENCY PROCEDURES

RAM SAFETY PROCEDURES			RAM EMERGENCY PROCEDURES	
	ppropriate PPE when working with radioactive material		Minor Radiation Spill	
i.e., (a) lab coat or other protective clothing, (b) disposable gloves, (c) safety goggles or glasses, (d) long pants, and (e) closed-toe shoes.		1.	Notify all persons in the area that a spill has occurred.	
 laboratory. Wear personal 	NOTE: Open-toe shoes and sandals are not permitted in the laboratory. Wear personal dosimeters and ring dosimeters when working with radionuclides that emit:		Don disposable gloves and cover spill with absorbent pad (or paper). Wipe contaminated area from perimeter towards the center in a single motion. Repeat using a clean portion of the pad each time until spill is cleaned. Place contaminated pad in a plastic bag and dispose of	
a. Beta parti	les with energies greater than 600 keV when these es are used in quantities exceeding 5 mCi of activity vs when these radionuclides are used in quantities	3.	it in a radioactive waste container. Request hazmat pickup via EHSA. Use a survey meter to check the area around the spill, your hands, shoes, and clothing for contamination. Perform follow-up wipe tests	
b. Gamma ra			and decontaminate as necessary.	
-	exceeding 1 mCi of activity. Bioassay is required for radioiodine use per Radiation Safety Manual		Document the incident and email <u>radsafety@usc.edu</u> .	
	provisions (see page 9.5).		Major Radiation Spill	
4. Pregnant work for consultatio	workers are advised to contact the Radiation Safety Officer	1.	Notify all persons not involved in the spill to vacate the room.	
 Maintain good a. Keep finge b. Wash han 		2.	Don disposable gloves and cover the spill with absorbent pad (or paper). Do not attempt to clean it up. Confine movement of all personnel to prevent the further spread of contamination. Prevent personnel from entering the contaminated area.	
material. c. Do not ha on hands	ndle radioactive material if there is a break in the skin or fingers.	3.	If possible, return stock vials to their shields, but only if it can be done without significantly increasing your radiation exposure.	
6. Do not eat, di	eat, drink, smoke, or apply cosmetics in work areas where ctive material is used. Do not leave food related items (e.g., containers) in these areas.	4.	Notify the Radiation Safety Officer and your lab supervisor.	
		5.	Remove and store contaminated clothing for further evaluation by the Radiation Safety Office.	
7. Use remote ha	ndling devices as required. Never pipette by mouth.		Personnel Decontamination	
. Keep the laboratory areas neat and clean. Cover the benches with absorbent padding where radioactive material is handled.			The face and hands are parts of the body where contamination most frequently occurs.	
	tors/freezers with "Caution Radioactive Materials", re food or beverages for human consumption in them.	1.	Determine contamination extent with most sensitive detector. Remove contaminated clothing immediately.	
10. Conduct weekly or monthly surveys of all areas where radioactive material was used. It is best practice to survey before and after each day of radioactive material use.		2.	 Flush affected area with copious quantities of lukewarm water (using a sink, emergency shower, or eyewash station depending on the extent of contamination) for at least 15 minutes. Then, wash with mile 	
11. Keep liquid rac secondary con	lioactive material in a leak-proof container and tainer.		soap and water. Work lather into contaminated area by rubbing gently for 3 minutes. Rinse thoroughly. Scan with survey monitor.	
	e radioactive waste only in marked and approved waste ainers provided by the Hazardous Materials Division. are and lock laboratory doors or storage areas where radioactive erials are present.		3. If contamination persists, repeat Step 2 and rescan. If contamination further persists, discontinue washing and allow radioisotope to deca Contamination is affixed to the skin protein and removal is extremely difficult. DO NOT use any abrasives, strong detergents, or brushes as these will damage the skin and facilitate entry of radioactive	
	label all radioactive material containers with bel stating the: (a) Radionuclide, (b) Activity, (c) Date, ory #.	4.	contaminants into the body.4. Notify your supervisor and the Radiation Safety Officer. Seek medica attention if required.	
IN CASE OF A RADIATION ACCIDENT				
Principal Investigator:		Pł	Phone:	
Alternate:		Al	Alternate Phone:	
Department of Public Safety HSC: 323-442-1000		Ra	Radiation Safety Officer 323-443-2200	

UPC: 213-740-4321