

ATTIRE AND PPE	SURVEYS
 <ul style="list-style-type: none"> • Dress appropriately for work in your setting. Avoid wearing shorts, skirts and sandals. • Wear double gloves, a lab coat and safety glasses when handling radioactive materials. • Wear your radiation badge when at work. 	 <ul style="list-style-type: none"> • Perform surveys during and after every use of radioactive material. • Use the correct instrument and survey slowly. • Keep your instrument in good working condition and ensure it is calibrated.
SECURITY	MAINTAIN GOOD REGULATORY DOCUMENTS
 <ul style="list-style-type: none"> • Store all radioactive materials securely. • Keep doors closed and locked and don't allow tailgating. • Pay attention to unknown persons in and around your workplace and report suspicious behavior. 	 <ul style="list-style-type: none"> • Daily area and personal survey records. • Radioactive package receipt surveys. • Decay in Storage (DIS) and release surveys for radioactive waste with very short half-lives (less than two hours). • Dose calibrator tests.
RADIOACTIVE WASTE	EMERGENCY PROCEDURES
 <ul style="list-style-type: none"> • Know and follow the procedures for radioactive waste handling and disposal in your area. • Segregate all waste properly and don't overfill containers. • Perform thorough release surveys of decayed waste containers and document, as required. 	 <ul style="list-style-type: none"> • Follow the SPILL poster steps for dealing with radioactive material spills. Immediately report personal contamination to Radiation Safety. • Call the 24-hour EHS Emergency line (203-785-3555) for assistance with any radiation incident.
EHS INTEGRATOR	
 <p>Edit Your PI Profile • Submit Registrations • Update Registrations Resolve Surveys • Request Waste Pickups • Maintain Inventory https://ehsis.yale.edu/EHSIntegrator</p>	

X-RAY EQUIPMENT SAFETY

Dose Reduction

- Always strive to reduce human subject research doses while optimizing image quality.
- Avoid unnecessary scans and use the lowest optimal radiation dose for necessary studies www.imagewisely.org.

Use Requirements

- Research on human subjects that involves exposure to radiation requires prior Radiation Safety Committee and Yale University Human Investigation Committee (HIC) approval.
- Human studies must be under the direct (written) order of a physician or authorized provider.
- Only a properly credentialed individual may operate an x-ray machine for human use.
- During x-ray exposures, operators should leave the mCT room and ensure collaborators and visitors are not present in this room.
- Operators of animal and/or human use PET CT units must be over 18 years of age, and be employees at Yale.
- Operators shall wear a dosimeter whenever using x-ray equipment.
- All new operators must complete an online EHS x-ray equipment safety training course and receive specific training from the x-ray equipment manager. <https://ehs.yale.edu/x-rays>
- Individuals who work in the area, collaborators and visitors, regardless of their direct involvement in x-ray activities, must also be made aware of x-ray use and hazards in the mCT room and Inveon rooms.

Emergency Procedures

- If an x-ray unit appears to malfunction, remove it from service immediately and label it “out of service”. Contact your equipment manager and the service representative as soon as possible. Make certain other users are aware that the unit is out of service and notify Ionel Hau, EHS Health Physicist, at 203-737-4754.
- Call the EHS Emergency line at 203-785-3555 any time for an x-ray related emergency.