

## **APPENDIX J**

### **Rules for Safe Use of Radiopharmaceuticals**

1. Wear disposable gloves at all times while handling radioactive materials.
2. Either after each procedure or before leaving the area of use, monitor your hands for contamination in a low background area with a survey meter or camera.
3. Areas where radioactive materials are prepared, administered or stored will be covered with impervious material.
4. Use syringe shields for routine preparation of multi-dose vials and administration of radiopharmaceuticals to patients, except in those circumstances in which their use is contraindicated (e.g., recessed veins, infants). In these exceptional cases, consider the use of other protective methods such as remote delivery of the dose (e.g., through use of a butterfly valve.)
5. Do not eat, drink, smoke, or apply cosmetics in any area where radioactive material is used, stored or disposed. Also do not store food, drink, or personal effects in these areas.
6. Wear personnel monitoring devices at all times while in areas where radioactive materials are stored, used or disposed. These devices should be worn as prescribed by the radiation safety officer. When not being used, personnel monitoring devices should be stored, in the work place, in a designated low-background area.
7. Wear an extremity exposure monitor with the film, TLD or OSLD on the palmer side of the hand during the elution of generators, during the preparation, assay, and injection of radiopharmaceuticals, and when holding patients during procedures.
8. Dispose of radioactive waste only in designated, labeled, and properly shielded receptacles.
9. Because even sources with small amounts of radioactivity exhibit a high dose rate on contact, you should use a cart, wheelchair, or other containers to move flood sources, waste, and other radioactive material.
10. Never pipette by mouth.
11. Confine radioactive solutions in shielded containers that are clearly labeled. Radiopharmaceutical multi-dose diagnostic vials and therapy vials shall be labeled with the isotope, the name of the compound, and the date and time of receipt or preparation as required by 64E-5.325. A log book should be used to record the preceding information and total prepared activity, specific activity as mCi/cc at a specified time, total volume prepared, total volume remaining, the measured activity of each patient dosage, and any other appropriate information. Syringes and unit dosages must be labeled with the radiopharmaceutical name or abbreviation, type of study, or the patient's name.
12. Always keep flood source, syringes, waste, and other radioactive material in shielded containers when not in use.
13. Ensure security of radioactive materials. Do not leave radioactive materials unattended in unsecured areas as required by 64E-5.320 and 64E-5.321.

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