

Appendix B

GENERAL RULES FOR THE SAFE USE OF RADIOACTIVE MATERIALS

This section should include the following items plus any additional precautions particular to your protocols.

1. Wear laboratory coats or other protective clothing at all times while using radioactive materials.
2. Wear disposable gloves, and protective eyewear at all times while handling radioactive material.
3. Monitor hands and clothing for contamination, if applicable, after each procedure or before leaving the area.
4. Do not eat, drink, smoke, apply cosmetics, or store personal effects in any area where radioactive material is used or stored. Do not store food or drink in restricted area.
5. Wear film badges at all times while in areas where radioactive materials are used or stored. Badges should be worn at chest or waist level. When film badges are not being worn to monitor occupational exposure, they should be stored in a designated low background area. Wear dosimeters (badges) as described in Item 14.
6. Never pipette by mouth.
7. Confine radioactive solutions in covered containers plainly identified and labeled with the name of the radionuclide, date, activity, and radiation levels, if applicable.
8. Always transport high energy beta or gamma emitting material in shielded containers.
9. Follow any special instructions of the Principal Investigator, or of the Radiation Safety Office.
10. Perform contamination and radiation surveys as directed. Record the results on the forms provided.
11. Follow any additional safety precautions provided by the radioisotope manufacturer or vendor. Maintain a copy of any package inserts.
12. Radioactive material users will familiarize themselves with the experimental protocols, special precautions, and any required equipment prior to performing the procedure.
13. Before attempting an experiment for the first time, perform a 'dry run', using water or saline instead of the radioisotope solution.
14. Before beginning an experiment, assemble all materials, reagents and equipment necessary to perform the experiment.
15. Work only in a designated area.
16. Cover the benches where radioactive materials are used with a layer of absorbent paper.
17. Whenever possible, work with radioactive solutions or storage of liquid radioactive solutions should be confined to a tray capable of containing the entire volume of the radioactive material.

18. Never leave radioactive materials unsecured. Never leave a radioactive experiment unattended unless the area is clearly marked 'RADIOACTIVE MATERIAL IN USE - DO NOT DISTURB'. Advise others in the lab of the status of the experiment.
19. Immediately report any unsafe situation to the Principal Investigator, and to the Radiation Safety Office.