

**STANDARD PROTOCOL REQUIREMENTS: I-125 AND I-131
(LABELED COMPOUNDS)**

1. Individuals handling greater than 11,520 mCi-minutes/year of I-131 will wear whole body personnel dosimeters (e.g., film badge). A ring badge will be worn when handling greater than 540 mCi-minutes/year of I-131. No dosimeters are required for I-125.
2. Tongs, forceps or other remote handling devices will be used when opening or otherwise manipulating source containers.
3. Waste containers, source vials, syringes, etc., containing I-125 (1 to 25 millicuries) will be shielded with 1/32 inch of lead or equivalent; such containers with I-131 (up to 25 millicuries) will be shielded with 1 inch of lead or equivalent.
4. Waste contaminated with I-125 and/or I-131 can be disposed with other radionuclides which have half-lives of less than 100 days.
5. Any medical-pathological waste that is contaminated with radioiodine will be disposed of through the radioactive waste service after any infectious agents have been deactivated using a non-chlorine-based disinfectant such as Wescodyne.
6. Following work with protocol quantities, hands, arms, clothing, shoes, and work area (including the floor in the vicinity of the work area) will be monitored for contamination using a low energy sodium iodide scintillator for I-125 or a geiger counter for I-131. Any contaminated areas will be decontaminated immediately.
7. Any spill or personnel contamination resulting from protocol work will be reported to the Radiation Safety Branch as soon as possible.
8. Up to one month in advance of performing protocol work for the first time, each individual will have a baseline thyroid bioassay. Thereafter, protocol users will call 496-4803 to schedule a thyroid count if they have been involved in a spill or personnel contamination incident associated with the protocol or if they have used 10 millicuries or more of radioiodine during a calendar quarter. Thyroid counts should be performed between 8 and 72 hours following the incident or usage of radioiodine.
9. All radioactive materials in use or storage, including waste, must be secured from unauthorized removal or access when unattended.