Radiation Safety and Protection for I-125 Seeding localization: A Day in the Life of a Seed ASSESSMENT

Name: _____ Date: _____

1. How much activity is one radioactive Iodine-125 seed?

    a. 100-300 microcuries

    b. 50-75 microcuries

    c. 100-300 nanocuries

    d. 50-75 nanocuries

2. How big is a radioactive Iodine-125 seed?

    a. 5 mm

    b. 10 mm

    c. 15 mm

    d. 20 mm

3. What are the 3 cardinal principles of radiation protection?

    a. Ventilation, rules and regulations, procedures

    b. Time, Distance and Shielding

    c. Containment, protective clothing, surveys

4. To prevent the termination of our radioactive seed localization program the I-125 seed must be tracked from location to location.

        True   False

5. What is the annual limit for occupational exposure for the extremities?

    a. 5 rem/year or 5000 mrem/year

    b. 15 rem/year or 15000 mrem/year

    c. 50 rem/year or 50000 mrem/year

6. You should never touch a radioactive Iodine-125 seed with your fingers.

   True   False

7. You should always use long handled forceps to pick up a dropped seed.

   True   False

8. Who do you call if a seed is missing?

   a. Pathology

   b. Breast Center

   c. General Radiology

   d. Nuclear Medicine

   e. Surgery

9. If at any point an I-125 seed is thought to be missing, Nuclear Med must survey all staff before they can leave the area.

   True   False

10. The patient cannot leave the surgical suite until radiology has verified that all seeds that were implanted are accounted for.

    True   False

11. If a seed is cut while still inside the patient, the site will be irrigated with saline or sterile water and the excess irrigation will be suctioned.

    True   False

12. Radioactive -125 can leak out of a cut seed. Any clothing, supplies or materials that are contaminated will be stored in the Radiology "Hot Closet" for how long?

    a. 150 days

    b. 300 days

    c. 450 days

    d. 600 days

13. The I-125 Seed Localization Form requires a signature from each person transporting a seed.

    True   False

14. A patient must get the seeds removed the same day they are implanted.

    True   False