Radiation Protection Policy





Principles of Radiation Protection

The responsibility of a radiologic technologist and a student radiographer is to maximize the benefit from each x-ray exposure and to minimize the radiation dose received by the patient.

1. Techniques

- a. Takes time to position the patient properly.
- b. Sets techniques correctly utilizing manual, anatomic programming and digital equipment.
- c. Use the highest kVp and the lowest mAs that is consistent with acceptable image quality.

2. Collimation

- a. Limits the size of the beam to include only the area of interest.
- b. There is never justification of a beam larger than the IR.
- c. Collimation improves image quality.
- d. Collimation is one of the most vital things the technologist can do to protect the patient.

3. Gonadal Shielding

- a. Use gonadal shielding whenever this will not interfere with the diagnosis.
- b. Gonadal shielding should be used on every patient, along with shielding eyes, breasts, and thyroid, as appropriate.

4. Radiographic Image Processing

a. Process radiographic images based on departmental criteria.

5. Protecting Yourself

- a. You can be protected by the same techniques used to protect the patient.
- b. Always wear lead aprons when applicable.
- c. Always wear dosimeter to monitor exposure. Wear this at collar level, outside of the lead apron.
- d. NEVER HOLD A PATIENT OR AN IR (IMAGE RECEPTOR) DURING ANY RADIOGRAPHIC PROCEDURE.
- e. Remember the Cardinal Rules: TIME, DISTANCE, SHIELDING.