INDICATIONS:
Post I-131 high dose therapy

SCHEDULING:
1. Instructions to Patients:
   a. This study will be done in follow-up of patients who have received high dose I-131 therapy for thyroid ablation and treatment of well differentiated thyroid carcinoma. Generally, the physician will request that the scan be performed seven to ten days after therapy.
   b. Schedule the patient for imaging prior to discharge from the Hospital after the therapy dose.
   c. Inform the patient that exam time is 1.5-2 hours. The study should be done on the Varicam, if possible. Otherwise, it may be done on the 409A. This must be entered on the schedule for Prostascint scans. Early a.m. (07:00) is preferable.

2. Lab:
None required.

3. Image Correlation:
   a. The pre-therapy I-131 whole body scan images, and any other thyroid scan images, must be available on the day of imaging for comparison.
   b. Please pull the x-ray file. The nuclear medicine physician will need all recent x-rays (especially chest x-ray, and any CT scans that have been performed).

RADIOPHARMACEUTICAL:
I-131, administered at the time of therapy.

PATIENT PREPARATION:
No preparation is required.
EQUIPMENT AND PREPARATION:

1. Elscint 409A with pinhole collimator and parallel hole collimator #6; Varicam may also be used.
2. Peak for I-131 (20% window at 364 KeV).
3. Prepare five Technetium-99m markers for anatomic localization.

PROCEDURE:

1. Acquire Anterior and posterior whole body images from the top of the head to mid thigh.

PROCESSING:

1. Send images to the physician workstation for viewing.

REFERENCES:


Note: This protocol is in agreement with the Society of Nuclear Medicine Procedure Guidelines Manual, 1999.