

## ***Iodine-131 Tx Out-Patient Procedure Carcinoma***

1. Attending physician refers patient to Nuclear Medicine for consultation for Ca of Thyroid.
2. Nuclear Medicine physician provides consultation and schedules patient for a Diagnostic Scan for metastatic lesions from Thyroid Ca, provided patient fits the following criteria:
  - a. Pt is post "Near-Total Thyroidectomy".
  - b. Pt is off all thyroid medication for 6-7 weeks
  - c. The patient SHALL be in general good health
  - d. The patient SHALL exhibit urinary continence
  - e. The patient SHALL have normal kidney function (i.e., normal BUN and creatinine levels)
  - f. The patient (in the treating physician's best judgment) SHALL be able and willing to comply with the written radiation safety instructions provided.
  - g. Pt is not breast feeding
  - h. Pt is confirmed not pregnant, by Serum PG test or Hysterectomy, etc..
3. "**Written Directive**" is completed, signed and dated by Nuclear Medicine Physician (Authorized User) prior to patient dosing.
4. Pt is referred to Nuclear Medicine for dosing with **3 to 5 mCi of Iodine-131** in Nuclear Medicine.
5. Pt is either sent home or back to room for 72 hours with precautions and/or signs.
6. Scan is performed, if positive, Nuclear Medicine Physician will prescribe a therapy administered dose based on a high level fixed dose therapy regimen.
7. At the discretion of the NM Physician the patient may be treated as an **out patient** if patient conforms to **ALL** of the following:
  - a. Patient can maintain prudent distance from others for at least two(2) days
  - b. For prescribed doses greater than 178 mCi it is imperative that the patient remain at least three(3) feet from others for at least six(6) of the first eight(8) hours.
  - c. Patient can sleep alone in a room for at least first night
  - d. Patient will not travel by mass transit or airplane for first day
  - e. Patient will not travel with others for a prolonged car trip for two(2) days
  - f. Patient will have sole use of bathroom for two(2) days
  - g. Patient will drink plenty of fluids for two(2) days
8. "**Written Directive**" is completed, signed and dated by Nuclear Medicine Physician (Authorized User) prior to patient dosing.
9. Therapeutic dose +/- 10% of prescribed dose, of Iodine-131 is administered in a restricted area within Nuclear Medicine.
10. Out patient must receive patient behavior modification instructions for radiation safety purposes via the "**Radiation Safety Instructions for Iodine-131 Hyperthyroid or Carcinoma Patients and Family**" for the dose level > 7 mCi administered..

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11. Patients may be released if:
  - a) The measured dose rate at 1 meter is at or below 7 mR/hr.
  - b) The residual activity in the patient is less than 33 mCi.
  - c) Administered activity less than 33 mCi
  - d) Calculated dose to others less than 500 mrem
12. A patient specific calculation must be documented as necessary, to show that dose to others will be less than 500 mrem on “<sup>131</sup>Iodine Record of Patient Release” form.
13. Have patient and/or family member sign and date NRC required “<sup>131</sup>Iodine Record of Patient Release” form.
14. Residual waste is properly secured.