

¹³¹IODINE THERAPY - INPATIENT PROCEDURE

1. Attending physician refers patient to Nuclear Medicine for consultation for Ca of Thyroid.
2. Authorized physician user 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 Physician (Authorized User) prior to patient dosing.
4. Pt is referred to Nuclear Medicine for dosing with 2 to 5 mCi of Iodine-131 in Nuclear Medicine.
5. Pt is either sent home or back to room for 72 hours.
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. Pt is instructed about Iodine-131 therapy procedure and overall picture.
8. The patient will be admitted to a private room specifically allocated for Iodine-131 therapy.
9. Room is protected from Iodine contamination via, plastic floor covering, blue pads on bedside table and chairs, gloves on call button and phone mouthpiece and documented in patient therapy record packet.
10. Nursing personnel are issued dosimeters and instructed prior to dose administration, re. control of patient, visitors, contamination and waste, plus notification of RSO and AU in a medical emergency or patient death.
11. Written instructions are provided to Nursing on pt door and chart.
12. "**Written Directive**" is completed, signed and dated by Nuclear Medicine Physician (Authorized User) prior to patient dosing.
13. Therapeutic dose +/- 10% of prescribed dose, of Iodine-131 is administered in patient room.
14. Exposure measurements are made around pt and pt room and all information is documented in patient therapy record packet.

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15. Daily surveys are made as prescribed in pt. therapy packet and bedside occupancy times are calculated with a 25 - 50% degree of safety. Pencil dosimeters(if provided) are read and cleared for nursing staff daily and readings documented on clipboard data sheets. Notations of patient progress are made daily in pt chart in progress notes.
16. 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
17. A patient specific calculation must be documented as necessary, to show that dose to others will be less than 500 mrem on “**¹³¹Iodine Record of Patient Release**” form.
18. Patient’s must receive 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..
19. Have patient and/or family member sign and date NRC required “**¹³¹Iodine Record of Patient Release**” form.
20. Room is cleared, surveyed, wiped (<200 dpm), cleaned ALARA and documented on the “**Final Room Survey**” form.
21. Residual waste is properly secured.
22. Within 24 – 72 hours a **Bioassay** is required of all personnel present at the time of dose administration.