

**Procedure for up gradation of Radiological Safety Officer (Level II) for Nuclear Medicine Facility to function as Radiological Safety Officer for high dose therapy facility**

A candidate, who has been qualified as Radiological Safety Officer (Level II) for a Nuclear Medicine department undertaking diagnostic and low dose therapy, will qualify to be nominated by the employer as Radiological Safety Officer (RSO) for high dose therapy provided he/she satisfies the following:

a) Three weeks field training programme in the institutions given below practicing high dose therapy, under the supervision of RSO (Level III)/RSO (NMD, LDTF, & HDTF) having Dip.R.P. or M.Sc. (Medical Physics/Radiation Physics) qualification of that institution, approved by AERB, and

b) A certificate (as per the enclosed format) of successful completion issued by the institution conducting the above training programme.

The following institutions are recognized to impart training in Radiation Safety Aspects of high dose therapy based on the criteria that the institution should be conducting DRM/DNB-NM/MD-NM or DMRIT/BNMT/DNMT/MSc-NM course and has infrastructure for providing training to the candidates:

1. Jaslok Hospital & Research Centre, Mumbai
2. Apollo Hospital, Hyderabad
3. Nizam's Institute of Medical Sciences, Hyderabad
4. Narayana Hrudayalaya, Bangalore
5. Army Hospital(R&R), Delhi Cantt., New Delhi
6. Apollo Hospital, Chennai.
7. Post Graduate Institute of Medical Education and Research, Chandigarh
8. Radiation Medicine Centre, Mumbai
9. Christian Medical College, Vellore
10. Manipal Academy of Higher Education(MAHE), Manipal, Karnataka
11. All India Institute of Medical Sciences, New Delhi
12. Sher-i-Kashmir Institute of Medical Sciences, Srinagar
13. Kovai Medical College and Hospital, Coimbatore
14. Cancer Institute, Adyar, Chennai
15. INHS Asvini, Mumbai

**RECORD OF FIELD TRAINING IN ISOLATION WARD FOR EVALUATION OF CANDIDATE TO QUALIFY FOR APPROVAL AS RSO FOR HIGH DOSE THERAPY**

A. Name and Address of the candidate :

B. Present employment :

C. Qualification :

D. Year of passing RSO exam :

E. Name of the training centre :

F. Period of training : from \_\_\_ to \_\_\_

G. Name of RSO under whom training is received :

H. Data on high dose therapy patients supervised during the training (Apart from I-131, at least one other isotope such as Sm-153, Lu-177, Y-90 is needed).

- a. For treatment of Ca thyroid **with I-131** (minimum 20) : \_\_\_\_\_ patients
- b. For treatment using I-131 MIBG : \_\_\_\_\_ patients
- c. Any treatment using other radioisotopes : \_\_\_\_\_ isotope \_\_\_\_\_ patients

I. Training received in areas of radiological safety aspects for high dose therapy

- Development of Radiological Protection Programme for therapy ward and implementation
- Counseling of patient and relatives prior to therapy, during hospitalization and prior to discharge
- Written instructions given to patient, staff and nursing staff
- Ensuring radiation safety during storage, handling, transport of the isotope within the premises and during administration to the patient
- Dose administration procedures including improvised safe handling procedures
- Patient monitoring during hospitalization and before release from ward
- Radiological survey of isolation ward, dose administration room, linen storage, waste storage, patient toilet and other areas of isolation ward, nurse station, delay tank area
- Management of radioactive waste (collection, storage, monitoring, labeling and release criteria – for solid and liquid)

- Liquid effluent sampling, air monitoring, contamination check
- Procedures for management of any radiological/clinical emergencies and emergency preparedness
- Management of non ambulatory/pediatric patient
- Criteria and methodology for planning of isolation ward and delay tank
- Regulatory requirements with respect to high dose therapy
- Caution notices to be posted in the isolation ward (for staff, nurses, patient, visitors)
- Decontamination procedures, materials contained in decontamination kit
- Radiation monitoring instruments for isolation ward – maintenance and calibration
- Thyroid burden monitoring of radiation workers, comforters – preventive methods
- Record maintenance – Inventory, Patient records, Dose records of staff, Waste disposal, Area Survey, Unusual events
- Informed consent from patient and relatives

Certification

I certify that Mr./Ms.----- has undergone the above field training from ..... to ..... on all of the above listed topics.

Certified by:  
 Name of RSO  
 Signature  
 Date and Place:

Approved by:  
 Name of Nuclear Medicine Physician:  
 Signature:  
 Institution name with seal:

Name of the Head of the Institution:  
 Signature:  
 Institution name with seal:

Date  
 Place:

Patient study data during the training

Sr. No.	Name of patient	Age	Female/Male (F/M)	Type of disease	Radio isotope specification/Activity administered and date	Radiation level at 1 m at time of discharge on date