Procedure for up gradation of Radiological Safety Officer of Nuclear Medicine Facility to function as Radiological Safety Officer for high dose therapy facility

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

a) Minimum three weeks field training programme in an institution practicing high dose therapy, under the supervision of AERB approved RSO of the institution with qualification Dip.R.P. or M.Sc. (Medical Physics/Radiation Physics) and

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

It is expected that, the candidates can observe treatment of minimum 10 high dose therapy patients during three weeks training. If required, the training period may be extended to cover adequate number of cases.

Any Nuclear Medicine facility fulfilling the below mentioned criteria can impart training in Radiation Safety Aspects of high dose therapy:

(1). The Nuclear Medicine facility should practice high dose therapy.
(2). RSO having Dip.R.P. or M.Sc. (Medical Physics/Radiation Physics) qualification should be available in that institution for providing training to the candidates.

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

[To be submitted in the letter head of the Institution conducting field training]

A. Name and Address of the candidate :

B. Present employment :

C. Qualification :

D. Year of passing RSO (NM diagnostic & low dose therapy) exam :

E. Name and address of the training Institution :

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

G. Details of RSO under whom training is received :

(a). Name :

(b): Qualification:

(c): Working Experience:

(d): Contact Number:

(e): Radiation Professional Identification No. (RP ID):

H. Number of approved high dose therapy wards:

I. Data on high dose therapy patients supervised during the training:

a. For treatment of Ca thyroid **with I-131** (minimum 10) :_____patients

b. Any treatment using other radioisotopes :_____isotope _____patients.

J. Training received in areas of radiological safety aspects for high dose therapy should include the following:

- 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.
- Management of dose misadministration.
- Patient monitoring during hospitalization and before release from ward
- Radiological survey and contamination check 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)
- Radioactive waste (Liquid effluent) sampling and discharge from delay and decay tank.
- 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