



Nova Scotia
College of  **MIRTP**

PROGRAM GUIDE
NUCLEAR MEDICINE REFRESHER PROGRAM

CLINICAL SITE CRITERIA

Sites must meet the following criteria to be considered appropriate.

1. There must be a dual head SPECT/Unit
2. Department must have a working radiopharmacy.
*note: a candidate may go to a department that does not have a radiopharmacy but will be required to do a portion of their clinical time at a site with a radiopharmacy.
3. Perform chromatography on all radiopharmaceuticals.
4. Follow a radiation safety program that includes area monitoring, swipe tests, and personal monitoring.
5. Have a quality assurance program to monitor equipment performance must be in place.

PROCEDURES APPLICABLE:

See the Clinical Component Competency Tracking Table located on page 20 for a comprehensive list of required procedures

- Cardiovascular System
- Central Nervous System
- Endocrine System
- Gastrointestinal System
- Genitourinary System
- Oncology/Infection Imaging
- Respiratory System
- Skeletal System

- Patient Interviews (obtain relevant clinical history)
- Injections

- Radiopharmacy
 - Generator elution
 - Eluate quality control
 - Product reconstitution
 - Chromatography
 - Dispense doses

- Quality Control Procedures
 - Uniformity Floods
 - Bar Phantoms
 - Chi-Square
 - Energy Resolution

- Patient Care
 - Vital Signs (B/P, Respirations etc)
 - Oxygen Therapy (crack tanks etc)
 - Body mechanics
 - Respond to patient changing status (diabetic shock, syncope, CPR)
 - Follow Standard Precaution Guidelines

- Safe handling of radioactivity
 - Proper use of gloves
 - Appropriate use of shielding materials
 - Area monitoring
 - Wipe testing

- Professional Conduct
 - Punctuality
 - Initiative
 - Attitude
 - Appearance
 - Team Player

The **role** of the **preceptor** is to act as an advisor/mentor to candidates in the clinical environment by providing learning experiences.

A **preceptor**:

- Is a role model
- Is a clinical expert
- Demonstrates professional behavior and accountability
- Re-orientates the candidate to the roles and responsibilities required of the clinical site and rotations.
- **Facilitates:**
 - A successful transition to the clinical environment
 - Opportunities for increasing independence in the performance of procedures, skills and duties required of a nuclear medicine technologist.
 - A professional relationship between all members of the health care team
 - Attainment of the objectives required for success in the clinical environment.
- **Provides:**
 - Support through discussions with the candidate:
 - Prior to commencing the clinical component to assist the candidate with setting goals
 - At the beginning of the day to assist with particulars of the rotation. This can be verbal for 2-3 minutes.
 - Daily feedback on strengths and areas requiring improvement. This can be verbal for 2-3 minutes at the end of each day.
 - Formative feedback to be provided four (4) times, approximately every 10 days
 - Summative feedback at the completion of the clinical component

The preceptor is responsible for assessing the candidate's skill competency level prior to deciding the appropriate level of supervision required.

Skill Competency Level

Level 1: Guided Performance: Candidate can make decisions about appropriate procedures with some technologist direction (comprehension/understanding of the suitable procedure for specific scenarios).

e.g. Candidate can perform some aspects of the procedure while still requiring direction for procedure.

Level 2: Minimally Directed Performance: Candidate can perform individual skills accurately according to protocol with minimal technologist direction.

e.g. Able to perform the skill with minimum direction but may check the accuracy of positioning/analysis with the technologist. The technologist does not perform any part of the procedure but must attend all times.

Level 3: Indirect Performance: Candidate can adapt and organize in order to perform individual tasks/skills with sufficient efficiency and accuracy to be independently successful, with no technologist direction.

e.g. Candidate performs task to completion independently. All results checked prior to submission for reporting.

SAFETY AND ORIENTATION CHECKLIST

Candidate _____ Clinical Site _____

The safety and orientation checklist is to be completed by the candidate and the preceptor upon the candidate's arrival in the clinical area. It is essential the candidate is aware of all safety procedures and departmental policies and always adheres to safe work practices. The following checklist is designed to help guide the candidate's orientation to the department. The preceptor will provide a tour of the clinical site and ensure all policies are followed.

The preceptor will ensure the following take place:

- Dose labeling
- QC of radiopharmaceuticals
- Compliance with CNSC regulations
- Availability of GM Survey meter
- Regular area monitoring and swipe testing performed
- Regular Personnel monitoring performed
- Compliance with lab regulations to include:
 - no food stored or consumed in designated radioactive areas
 - lab coats to be worn in department only
- Gloves worn for dispensing and injecting radiopharmaceuticals at all times
- Practice one handed needle re-capping
- Long term radiation storage and daily needle storage levels shielded to within acceptable levels

The candidate will ensure knowledge of:

- Departmental organizational chart
- Bomb threat policy and procedures
- Safety policy and procedures
- Fire policy and procedures
- Hospital emergency codes
- WHMIS policy and procedures
- Incident reporting policy and procedures
- Location of crash cart, exits, fire extinguishers, emergency equipment
- Areas of Diagnostic Imaging (reporting, booking, reception, washrooms)
- Other services provided within the clinical site (Blood collection, X-Ray, CT, MRT, US, Mammo etc.)

Preceptor Signature: _____ Date: _____

Candidate Signature: _____ Date: _____

CLINICAL SITE PROPOSAL

Candidate: _____

Anticipated Start Date: _____

Proposed Preceptor: _____

NOTE: If additional space required please attach to this form.
List all nuclear cameras and bone density machines available on site:

Does the department perform radiopharmacy preparations? _____

Does the department perform chromatography on all radiopharmaceuticals? _____

If not, how does the candidate propose competency will be gained in these areas?

Does the department have a radiation safety program that includes area monitoring, swipe testing and personal monitoring? _____

Does the department participate in a quality assurance program? _____



Provide a basic description of the workings of the department.

Preceptor: Having reviewed the required clinical competencies outlined in the clinical guide, do you believe the candidate will have ample opportunity to gain competence during the clinical period? Explain.

Other comments or concerns

Preceptor Signature: _____

Date: _____

Candidates Signature: _____

Date: _____

NSCMIRTP Signature : _____

Date: _____

