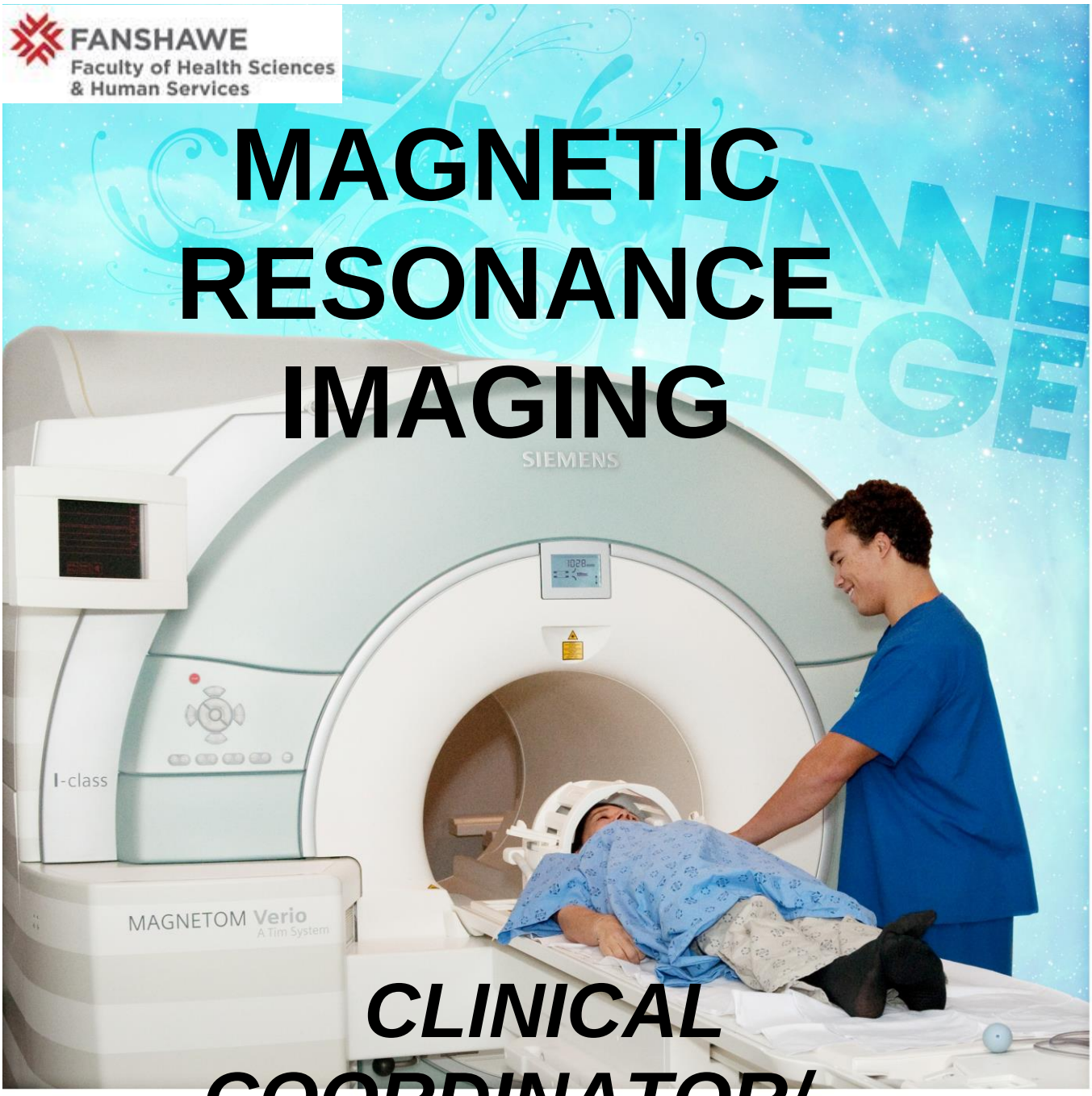
FANSHAWE
Faculty of Health Sciences
& Human Services

# MAGNETIC RESONANCE IMAGING




## *CLINICAL COORDINATOR/ PRECEPTOR MANUAL*

**MRIP 6003**

***2015***

# CONTACT INFORMATION

**Student**
**Name:** _____
Phone: _____
Email: _____

**Student Emergency Contact**
**Name:** _____
Phone: _____
Relationship: _____
Other information: _____
(Allergy or pertinent medical information)

**Clinical Coordinator/Preceptor**
**Name:** _____
Phone: _____
Email: _____

## Program Faculty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This manual was developed with many adaptations and excerpts from:

Fanshawe College Nursing and Paramedic Program and Preceptor Manual
Preceptor Package for Staff Technologists, MRT Program Fanshawe College

*If found, please contact the student or a faculty member listed above.*

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## Clinical Coordinator/Preceptor Manual



## Weekly Schedule for Clinical Practicum



## Final Evaluations

Description: MRIP 6003 Clinical Practicum for MRI

The purpose of this course is to allow the student to apply the theoretical knowledge obtained during the didactic portion of the program to the clinical environment. The student will spend this time at an affiliated clinical hospital under the supervision of a clinical co-coordinator or staff technologist.

Upon successful completion of this course of study the student should be able to:

1. Use their didactic knowledge effectively and readily in order to perform the clinical procedures listed in the CAMRT Competency Profile found in the Student Clinical Manual.

2. Meet the following vocational guidelines:

    a) Perform, in accordance with current standards, various magnetic resonance imaging procedures involving the head and neck, spine, chest, abdomen and pelvis, as well as the musculoskeletal and vascular systems.
    b) Apply the theoretical concepts of physics.
    c) Ensure the safety of clients and staff when delivering MRI services.
    d) Interact effectively with the clients, and their families.
    e) Prepare and position the client according to the established protocol, in order to optimize image quality. Prepare and position the client according to the established protocol, in order to optimize image quality.
    f) Use the MRI equipment, accessories and software efficiently.
    g) Assess the client's condition during the diagnostic test and/or the procedure and intervene effectively, if necessary. Evaluate MRI system performance, using quality control procedures.
    h) Apply the theoretical concepts of anatomy, physiology and pathophysiology.
    i) Efficiently transfer and store images, using the various media available (PACS, film, CDs, hard drive).
    j) Work with the various members of the health care team: radiologists and other physicians, physicists, nursing staff and other health professionals.
    k) Demonstrate professionalism in the performance of his or her duties as a member of the health care team.
    l) Evaluate MRI system performance, using quality control procedures.

(MRI Program Standard, MTCU, 2010)

Process to achieve the above outcomes:

The development of clinical judgment and expertise in health science students occurs only with time, experience in clinical situations to allow learning from practice, and with the consultation and support of clinical experts (Benner et al, 1996 in Fanshawe College Nursing program, Preceptor Manual, 2000).

The pre-graduate experience provides the student with the opportunity to synthesize and consolidate previous learning and experience through 16 weeks of uninterrupted practice in the hospital setting. It is intended to assist in the transition from the role of the student to one of the entry level MRI Technologist.

## Guidelines for Evaluation Components

| Evaluation items | Module(s) | Weight |
|---|---|---|
| 1. Reflective Journals (8 in total)<br>○ To be submitted bi-weekly to FOL drop box<br>○ To start week 2 | Module A | 10% |
| **2.** On Line Quizzes | All Modules | 10% |
| **3.** Competency Profile Evaluations | All Modules | 80% (each module to be weighted equally) |

***Student must successfully complete all evaluation items***

**In order to pass the students must achieve a minimum grade of 60% or a C grade in each of the three blocks. Failure to do so will result in a failing grade for the course.**

# Details for Evaluation Components

## Block 1: Reflective Journals (Module A4-Participate in professional development)

*Purpose:* A4.1 Engage in reflective practice, self-assessment to identify a learning plan that will promote best practices

- Template provided (pgs. 26, 27)

Completion of the journal allows the student to assess their strengths, identify learning needs, and establish goals. The journal is a means of communication between the student, clinical coordinator and the Program Coordinator documenting the student's learning and progress during the experience. It is a place for the student to describe experiences and reflect critically on these experiences. It is a place for the student to celebrate and learn from successes and to identify and learn from mistakes. ***The journal provides the basis for assessment of student performance.***

The journal is confidential. While it needs to be accessible to the clinical coordinator/preceptor and faculty, it should be kept in a private location.

***Guidelines for Students***

Journal entries will begin with identification your goals and objectives for the two week period.

The student will **retell** what they experienced during their shifts and **relate** back to the material learned in school. They will then identify a learning plan that will promote best practices with the collaboration of the clinical coordinator. After the first week, journal entries should reflect on their ability to have met the goals established the previous weeks.

A minimum of one journal entry is required every two weeks and is submitted to the **Fanshawe Online (FOL) drop box**. In addition to the above, you are also required to describe learning activities and reflect on successes, mistakes, issues, or concerns. Self-evaluation will be evident.

***Guidelines for Clinical Coordinators/Preceptors***

Discuss the student's reflective practice and self-assessment to identify a learning plan that will promote best practices. Collaborate with the student to determine an action plan to meet these goals.

Written feedback is essential to the student. Plan to make entries in the student journal. It is helpful if you respond to the student's entry in addition to making one of your own. You may include your perspective of situations, pose questions and give encouragement. Any incidents or concerns must be documented as soon as possible after they occur and have been discussed with the student.

Your entries, along with the student's entries will identify patterns of performance and progression of learning. The journal will aid your completion of the evaluations.

In addition, a clinical progress report is to be completed for each shift. A template is included.

### Block 2: On Line Quizzes

- Material for on line quizzes to reflect competencies noted in all modules
- Student will have three attempts at each quiz and the highest grade will be recorded

### Block 3: Competency Profile Evaluations

- The student will be given up to three attempts to pass each of the 32 examinations found within the competency profiles (8 total)

- To achieve a pass a student must attain a minimum of 60% overall on all of the 32 examinations within each of the competency profiles

- If a student cannot obtain a certain competency (competencies) because it is not available at their site during their training or on their visit to other sites they will be required to prepare an assignment on that particular MRI exam.

- This assignment will consist of approximately 1000-1500 words in length. The reports will be submitted to FOL droop box and will be typed in 12 point font, double-spaced, and have a header with page number and student name. A cover page will be attached that clearly identifies the course and displays the title and the name of the student submitting the paper. A Maximum of 3 written reports in lieu of clinical competencies are permitted (with the clinical coordinators approval)

- the following organizational guidelines are provided:

    - Optimal imaging coil, patient position and landmark and extent of scanning
    - Optimal imaging plane, pulse sequences, parameters and imagine options for visualization of anatomical area under MRI examination
    - Consideration to Patient related factors should be included
    - Every submission will be evaluated with Turn it in software for originality and be graded out of 100

- Given the diversity of clinical sites and clinical procedures, the total number of general and specific competencies completed within the examinations will vary from one clinical setting to another as well as one case to another. Thus, a complete list of competencies has been included and it will be the discretion of the clinical coordinator and/or preceptor to determine how many of the general and specific competencies will be

included in each attempt. If a clinical site does not follow/use a general competency it would be marked as N/A; thereby, reducing the total number of competencies to be completed for that skill.

For example:

If there were 100 general and specific competencies for a specific skill and there were 2 clinical sites – one that followed all 100 competencies and one that followed 95 – the student at the first site would have to achieve 60/100 “Yes” responses on his or her list while the second student would have to achieve the equivalent number of “Yes” responses out of 95 to meet the 60% requirement (e.g., 57/95). The student and Clinical Coordinator will be responsible for adding up the total number of competencies to meet that requirement and determining the required number of “Yes” responses for each skill to meet the 60% pass rate.

At the end of the clinical practicum, the Clinical Coordinator will sign off on all successfully completed skills in the Competency Profile Summative Evaluation Report. Assuming all skills are completed with the required 60%, the student will earn 80% of their final mark.

If the student is unsuccessful on an examination after three attempts, the clinical coordinator and the student will discuss a remediation plan in consultation with the MRI Program Coordinator. Refer to the MRI Policy and Procedure Manual for remediation options if all skills are not successfully completed in the assigned time.

- The student should attempt an examination when he/she feels able to successfully perform the task
- The Competency Profile Summative Evaluation Report can be found in the Final Evaluation section
- After the 16 week rotation, all modules and examinations listed in the Competency Profile Summative Evaluation Report must be signed off by the Clinical Coordinator for the Clinical Practicum to be deemed complete

# CRITICAL ERRORS

***Critical Errors occur when:***

***Deviation from established protocols and skill performance jeopardizes the safety and/or health of the patient, themselves, and/or others.***

E.g.

1. Safety standards not observed
2. Deviation from screening protocol
3. Medication error
4. Failure to maintain competencies

***AND/OR***

***There are recurrent problems in general clinical protocol and performance during the completion of the clinical competency profiles and/or clinical practicum in general with regards to professional behavior and competency attainment.***

E.g. Refer to Student Responsibilities in the Student Manual

If there is a critical error, a Critical Error Form (Final Evaluation section) will be filed, a review will follow and a committee decision will recommend one of the following: Action, Dismissal, Volunteer Withdrawal, Remediation, or Other

## Organization of the Competency Profiles

In the Student and Clinical Coordinator/ Preceptor Clinical Manual there are 8 distinct competency profiles. Each profile has a number of examinations. For each of the 31 required competency examinations, there is documentation that provides the student up to 3 attempts to demonstrate competency. There are 4 competencies that are listed as observed only , because of the scarcity of these exams at many of our clinical partnerships sites . The 8 profiles and corresponding examinations are:

a. Female
b. Male

- With each profile, there are a number of general competencies which are numbered A1, B2, C3, etc.

- For each general competency there are a series of specific competencies identified as A1.1, B 1.2, C3.3, etc.

- For each specific competency there are also sub-competencies which define the specific competency in greater detail. The sub-competencies are not listed in this manual because they are used to guide the development of the curriculum – a “curriculum blueprint”. The sub-competencies are intended for educators and program reviewers to assist in determining whether a particular educational program meets the competency requirements. A copy of the sub-competencies has been provided with this Manual so that clinical coordinators and/or preceptors can reference the competencies in great detail should clarification be required. Refer to the Magnetic Resonance Curriculum Guide based on the revised MR Competency Profile (CAMRT, 2007).

## How to evaluate competencies

A competency is a practice task that can be performed with entry-level proficiency.

*Entry-Level Proficiency is characterized as follows:*

- When presented with routine situations, the entry-level practitioner performs relevant competencies in a manner consistent with generally accepted standards in the profession, independently, and within a reasonable timeframe. The entry-level practitioner selects and performs competencies in an informed manner. The entry-level practitioner anticipates when outcomes to expect in a given situation, and responds appropriately.

- The entry-level practitioner recognizes unusual, difficult to resolve and complex situations which may be beyond his/her capacity and takes appropriate and ethical steps to address these situations, which may include consulting with others, seeking supervision or mentorship, reviewing literature or documentation, or referring the situation to a more experienced practitioner

(CAMRT working group, Draft, December 2011)

### Sample Evaluation for a Specific Examination

### Module A, B, C, F, and H: Clinical Competency Evaluation: Head (Seizures)

**Attempt #2**

Name of student _____Date of Competency _____

| Competency | YES | NO | N/A |
|---|---|---|---|
| **A 1Demonstrates critical thinking** | | | |
| A1.1 Apply critical thinking and problem solving strategies to ensure best practices | | | |
| **A2 Practice in accordance with legislation, regulations and ethical guidelines related to the profession** | | | |
| A2.1Practice patient care that protects the patient's legal rights | | | |

General Competency

Specific Competency

Clinical coordinator's initial indicates the

# Final Evaluations

## Critical Error Form

Critical Error or unsafe practice technique indicates that intervention by clinical coordinator/ preceptor was required to prevent a potentially negative patient outcome or preceptor/ clinical evaluator intervention could not prevent negative patient outcome. Refer to the Critical Error Form and accompanying documentation in the Final Evaluation section of the manual.

## Student Evaluation of Clinical Coordinator

The Student Evaluation of the Clinical Coordinator is to be submitted by the student at the end of clinical practicum during the Consolidation and Review course.

## Student Evaluation of Clinical Site

The Student Evaluation of the Clinical Site is to be submitted by the student at the end of clinical practicum during the Consolidation and Review course.

## Final Student Evaluation by Clinical Coordinator

The Final Student Evaluation by the Clinical Coordinator is to be completed by the clinical coordinator at the end of the clinical practicum and will be submitted by the student in the Consolidation and Review course.

## Competency Profile Summative Evaluation Report

**Instructions:** Students are to enter the date the examinations for each of the 8 module profiles have successfully been completed. Include the Clinical Coordinator's signature for an official record of completion. All of the examinations must be achieved prior to the end of the clinical rotation with the exception of the spine with contrast examination. Only one section of the spine needs to be evaluated with contrast, even though all three sections are listed. ** This has been done to provide some flexibility in the various clinical settings.

**Sample Evaluation**

| Module H: Head and Neck | Date of Successful Examination and Attempt # | Verifying Clinical Coordinator's Name | Signature |
|---|---|---|---|
| **Routine** | | | |
| **Contrast** | | | |
| **Seizures** | | | |
| **Sella/Pituitary** | | | |
| **Internal Auditory Canal** | | | |
| **Orbits** | | | |
| **TMJ** | | | |

Examinations for Module H

Module H Profile

Clinical Coordinator's Signature

## The Clinical Coordinator/Preceptor Model

Preceptorship is a formal one-to-one relationship of a pre-determined length between an experienced MRI technologist (preceptor) and a novice designed to assist the novice in successful adjustment to a new role as a graduate MRI technologist. The Clinical Coordinator/Preceptor serves as a role model facilitating student learning through demonstration, explanation, guidance, questioning, support and evaluation.

Characteristics of Effective Clinical Coordinators/Preceptors:

- desire to teach and a willingness to be a preceptor
- experienced
- clinically competent
- sound theoretical knowledge base
- able to facilitate learning
- recognize the student as a novice practitioner
- strong communication skills
- able to give clear, honest, motivating feedback in response to both successful and unsuccessful performance
- professional, positive attitude
- able to step back once the student is ready for more independent practice

## Adult Learning Principles Important To Precepting

1. Learning is facilitated when the preceptor has sufficient experience and expertise to feel confident.

2. Students learn best from preceptors who value life-long learning

3. Learning is enhanced when the student feels that the preceptor cares about their learning

   •The clinical coordinator/ preceptor recalls what it is like to learn complex skills for the first time, open and honest communication is where the preceptor listens to the student's perspective.

   •The clinical coordinator/ preceptors include and recognize the student as part of the team and not as an outsider ("that's the student")

4. Students learn best when they are full partners in the learning experience

   •Students and clinical coordinator/ preceptor collaborate on learning activities—student participation in evaluation is essential to student learning

5. Student will learn best in an environment that is supportive, and encourages openness and trust

   •Clinical coordinator/ preceptor ask questions in a non-threatening way that fosters thinking

* Adapted from Manley, MJ (1997). Adult learning concepts important to Precepting. In J.P Flynn (Ed.). The Role of the preceptor: A guide for nurse educators and clinicians (pp.15-46). New York: Springer

## Length of Experience - Dates to Remember

This clinical practicum experience begins the start of the 3rd level and will conclude with the Consolidation and Review component of the program.

***The student is expected to work all shifts that his or her clinical coordinator/ preceptors have scheduled him/her for during this time.*** Assuming a full time schedule, this provides for approximately 600 hours of clinical practice. Absenteeism from clinical days can result in one's falling behind in obtaining clinical competencies .This may result in failure of the clinical course and therefore inability to precede to MRIP 6001 Consolidation and Review Level of component of course.

- Clinical coordinator will assign shifts at the beginning of practicum, enabling the student to arrange their personal appointments around one's work commitment
- MRI students must attend all scheduled clinical shifts. In the event of a missed shift the student must contact both the clinical coordinator and the Program Coordinator, by or phone or by email prior to shift start
- IF you must be away for any length of time, you must notify your clinical coordinator/preceptor in advance (prior to the start of your shift minimally one to two hours if possible)
- There are no scheduled college break during clinical rotation, only statutory holidays
- Leaving early will not be tolerated
- In the event of lateness the preceptor must be contacted prior to the beginning of shift
- Bereavement days may result in rescheduled shifts , this is at the discretion of the clinical coordinator
- You are not to attend clinical shifts if you are ill, as you may be infectious to patients and other health care professionals. (e.g.) Flu-like symptoms (see Influenza Training Bulletin), productive cough, fever
- You are required to report to the program faculty any injury that you may have sustained (either on clinical placement or otherwise) that could potentially affect your ability to work in a clinical environment. Failure to report personal injuries puts not only you, but the patient and other health care professionals at risk and may result in dismissal from the program
- Medical clearance may be required prior to returning to clinical practice following injury / illness. Costs associated with obtaining medical clearance are the responsibility of the student
- If you are involved in an incident (exposure, accident or injury) you must notify the clinical coordinator and program coordinator as soon as possible after the incident. You will be required to complete and submit an incident report to both the clinical agency and to Fanshawe College. The incident report for the agency must be submitted while you are on shift. The Fanshawe College incident report must be submitted to Fanshawe within 24 hours. (see FOL)

# Schedules

Clinical Coordinator to use these calendars to list the students required duty roster.

| **May _____** | | | | | | |
|---|---|---|---|---|---|---|
| **Monday** | **Tuesday** | **Wednesday** | **Thursday** | **Friday** | **Saturday** | **Sunday** |
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| **June _____** | | | | | | |
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| **Monday** | **Tuesday** | **Wednesday** | **Thursday** | **Friday** | **Saturday** | **Sunday** |
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| **July _____** | | | | | | |
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| **Monday** | **Tuesday** | **Wednesday** | **Thursday** | **Friday** | **Saturday** | **Sunday** |
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| **August _____** | | | | | | |
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| **Monday** | **Tuesday** | **Wednesday** | **Thursday** | **Friday** | **Saturday** | **Sunday** |
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## Guidelines for Clinical Experience

If the Clinical Coordinator is ill or on vacation, the student will be assigned a temporary clinical coordinator that must be approved by the program coordinator.

MRI students are accountable for patient care and the decisions they make. Students are also accountable to know their limitations (know what they do not know) and are expected to seek assistance appropriately (when in doubt, ask).

Students will prepare written goals based on self-assessment of their strengths and their learning needs once every two weeks. Identifying a learning plan that will promote best practices will be reviewed with the clinical coordinator and a plan of action developed to achieve these goals.

Over the first few weeks of the experience, clinical coordinator/ preceptor can gradually increase the responsibility of the MRI student. To develop independence it is recommended the student take responsibility for less complex procedures then gradually increase their responsibility on more complex procedures. To assist the student to prepare for a particular procedure, clinical coordinator/ preceptor can discuss the student's plan of action, priorities, ask and answer questions and clarify roles.

Clinical Coordinators/preceptors are asked to evaluate the students, have the student self evaluate their performance, discuss issues, provide positive feedback and suggest areas for improvement. Communication with the student and observation of their performance will help to determine when the student is ready for more independence and increasing responsibilities.

**There must be no undue risk to patients**. If, at any time, the patient's or staff's safety is at risk, preceptors are asked to intervene and manage the situation. When possible, preceptors and/or students should notify the program coordinator to discuss the situation as well.

Do not hesitate to consult with Program Coordinator should questions or issues arise during the experience.

**Clinical Supervision:**

A registered MRI Technologist must supervise the student at all times in the clinical setting.
The type of supervision will depend upon the students level of skill with respect to the procedure performed.
Students' progress from direct supervision to indirect supervision throughout the semester

**Direct Supervision:**

A registered MRI technologist:

- Is physically present in the room/control panel area while the examination /procedure is performed
- Will stay with the student and observe student performance
- Must review the images and approve the procedure prior to the patient being dismissed
- Must verify the appropriate documentation as per department protocol.

**Indirect Supervision:**

A register technologist reviews the procedure and evaluates the patient's condition prior to the patient being dismissed

The registered technologist reviewing the procedure for the patient is responsible for:

- Dismissing the patient
- Proper documentation
- Being available to assist the student.

Students are in a learning situation and MUST not be considered as part of the work force of the clinical institution

Demonstrate professionalism and punctuality at all times. MRI student(s) should arrive to assigned shifts at least 10 minutes early. If they do not adhere to the rules, the Clinical coordinator can use their discretion and can send the student home or not allow them to perform competencies during that week.

Maintain a professional appearance – neat and well groomed at all times.

- Uniforms may not be worn to all clinical placements.
- Shoes must have closed toes
- Nametag or photo ID are to be worn
- Hair is to be clean, neat and if long, tied back in a manner that will not allow the hair to fall forward and onto a patient
- Beards are to be neat and trim, otherwise, must be clean shaven
- Do not wear colognes, perfumes or other scented products
- For reasons of health, safety and professionalism, the only allowable visible piercing is one stud (no hoops) in the lower ear lobe(s)
- Tongue piercings are not allowed and no visible tattoos are allowed
- Fingernails must be short, nail polish must not be chipped
- Jewelry such as rings with stones must not be worn
- A plain band and wrist watch are the only pieces of jewelry that are acceptable for the health care worker (Torres, Lillian: Patient Care in imaging Technologies, 8th edition)
- Personal protective equipment must be in the student's possession and utilized as per Health and Safety policy at all times.

All Fanshawe College policies and procedures must be adhered to in conjunction with the policies and procedures of the clinical placement site. In addition, the following behaviors are unacceptable and may be cause for immediate dismissal from the MRI Program.

- Holding oneself to be more qualified than one is
- Theft
- Conviction under the criminal code
- Failure to respect a patient's rights
- Breach of confidentiality
- Failure to complete proper patient records
- Falsification of medical or student records
- Sexual impropriety with patients, clinical staff or other allied professionals
- Being under the influence of alcohol or illicit drugs while on-duty
- During the performance of his/her duties, fails to conduct his/herself in a manner that will reflect credit upon the MRI profession

## What to Do in the Event of Accident/Injury to a Student

Follow guidelines/polices as established by the ambulance service. Report the accident or injury to the supervisor/manager. In addition to documentation required by the ambulance service, complete with the student the Fanshawe College accident/injury form (electronic copy is posted on FOL website). WSIB reporting guidelines require that the Program Coordinator be contacted within 24hrs after an accident or injury.

## Clinical Coordinator/Preceptor Responsibilities

1. Participates in Fanshawe College's preceptor workshop or complete the online training and achieve certification
2. Provides orientation to the department including organization, personnel, policies and procedures
3. Reviews student's goals and discusses student reflective practice, self-assessment to identify a learning plan that will promote best practices (Clinical Coordinator is responsible for evaluation of the reflective journal submission)
4. Collaborates with the student to develop an action plan to meet goals
5. Determines student's level of participation on procedures
6. Supervises activities of student
7. Provides verbal feedback to student on an ongoing basis offering encouragement and constructive criticism as appropriate using the Clinical Progress Report form
8. Fosters student's professional growth and development by introducing new challenges appropriately
9. Shares information and suggestions that will facilitate the transition of the student into the role of the graduate
10. Signs achievement of competencies
11. Reviews and critiques clinical cases
12. Evaluates student's performance once every two weeks (using the Clinical Progress Report **on line**), and the final evaluation tools provided in the student handbook.
13. Consults and communicates with the Program Coordinator regarding student's progress and any areas of concern. In the event that specific competencies are note achievable at a clinical site, alternative arrangements will be made by the Clinical Coordinator and/or Preceptor in consultation with the Program Coordinator
14. Arranges for alternate preceptor when absent

## CLINICAL PROGRESS REPORT

EVALUATOR(S): _____ DATE: _____

STUDENT'S NAME: _____

Your assessment of the student's performance in the clinical setting is extremely valuable to the MRI students as he/she develops their skills. To facilitate the learning that occurs in the clinical setting, we are asking you to review the student's progress with them. All evaluations are reviewed by program coordinator. One progress report is to be completed at the end of every 2 weeks. Thank You.

| CRITERIA | YES | NO |
|---|---|---|
| Demonstrates professionalism and constructive use of time (Appearance, Conduct, Punctuality, Accountability, Initiative) | | |
| Demonstrates effective patient communication skills | | |
| Ensures personal safety and safety of coworkers, patients, family members and other allied professionals | | |
| Seeks out learning opportunities | | |

**Comments**
**Doing well with:**

**Could improve:**

I have reviewed and discussed this report with the Clinical Coordinator.

Student's signature: _____ Date: _____

*After the report has been completed, please review it with the student. It is the Clinical Coordinator's responsibility to submit the forms to the MRI Program Coordinator for review and verification. If at any time, you have concerns about the performance of a student, please contact the Program Coordinator.*

All efforts to protect the privacy interest of the student must be practiced. Access to students records should be to restricted to specified person for legitimate program reasons as per CMA Accreditation requirement 2.6

## Student Responsibilities

1. Conducts oneself in a professional manner at all times
2. Develops goals and identifies strengths and learning needs based on experience and reviews these goals with the Clinical Coordinator/ Preceptor
3. Collaborates with the Clinical Coordinator/ Preceptor to develop an action plan to facilitate achievement of learning goals
4. Maintains student journal once every two weeks which outlines goals, action plans and demonstrates growth and development of practice and submit them to the Clinical Coordinator/ Preceptor and Program Coordinator via FOL Drop box (Refer to sample included in manual)
5. Seeks out and takes advantage of all learning opportunities
6. Demonstrates safe, competent practice adhering to all legislation, policies and procedures
7. Is responsible and accountable for one's own actions, knowing limitations and seeking assistance when in doubt
8. Communicates learning needs to the Clinical Coordinator/Preceptor
9. Seeks out and accepts constructive criticism and guidance in a positive manner
10. Implements suggestions for improvement
11. Functions as a member of the team
12. Maintains evaluation forms and reviews entries with the Clinical Coordinator/Preceptor
13. Completes achievements of competencies, evaluations (Student Evaluation of Clinical Coordinator, Student Evaluation of Clinical Site, Clinical Manual) and submits to Fanshawe coordinator at consolidation /review
14. Completes PARAMED and Vulnerable sector screening, hospital orientation documents and submits them
15. Demonstrates increasing independence to the point where complete patient care can be assumed by student
16. Reports any accident or injury that could affect clinical performance to Clinical/ Program Coordinator

**Competency A4.1 Engage in Reflective practice, self-assessment to identify a learning plan that will promote best practices** ***Date***

| *Objectives / Goals for two week period* |
|---|
| *(Retelling could: describe, clarify and/or summarize significant events and/or experiences from the two week period)* |
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| *Reflect on experience in your practice of your shifts* |
| *(Reflections could: draw conclusions, apply judgments, share insight and new understanding, state and/or opinions)* |
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| *Performance self-assessment* |
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| *Reflections regarding strategies for improved performance* |
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| ***Continue remarks on back*** |

## Reflective Practice Evaluation (marked by Clinical Coordinator/Preceptor)

| | 0 | 1 | 2 |
|---|---|---|---|
| **Goals Identified** | No apparent goal statement | Unclear goal setting | Clearly stated goals |
| ***Reflect experience in your practice of your Shifts*** | Unclear history of events, too brief | Vague history, need some elaboration | Clear, in depth reporting |
| **Performance – *Self Assessment*** | No self evaluation | Poor self-evaluation, superficial performance review | Honest evaluation of self and performance |
| ***Reflections regarding strategies for Improved Performance*** | No strategies identified or highly unrealistic | Some strategies mentioned partially achievable | Plan for improved execution of strategy and performance |
| **Spelling, Grammar, Timeliness** | Multiple spelling mistakes, improper grammar | < 4 spelling mistakes & grammar errors, | No spelling or grammar errors, on time |

**Score: / 10**

*Note: Any reflective practice submitted more than 1 week late will be assigned a grade of "0"*

Comments:
Must obtain a minimum grade of 60%

_____
_____
_____
_____
_____
_____
_____
_____
_____

Student Signature: _____

*Note: Submit to Clinical Coordinator – not Preceptor for evaluation and post the submission on FOL for MRI Program Coordinator (use appropriate drop box)*

Clinical Coordinator Signature _____

## Program Coordinator Responsibilities

1. Is a resource for Clinical Coordinator/ Preceptor and student
2. Meets (or where not possible due to distance, communicates) with Clinical Coordinator/ Preceptor to outline the experience and clarify expectations if necessary
3. Assists in the identification of problems and the development of solutions
4. Is available for conferences with Clinical Coordinator/ Preceptor and/or student as necessary
5. Assists in the completion of evaluation forms as necessary
6. Reviews student evaluations, achievements of competencies


Weekly
Schedule for
Clinical
Practicum


# *Week 1:*
# Orientation to MRI Department

## Week 1: Orientation to MRI Department

Week 1 at the clinical site is a time to orient the student to the specifics of the MRI department. The table that follows may be used as an outline /guide to facilitate the orientation however clinical sites may choose any order for their students to learn various protocols/skills. Students can progress at various rates, attention to previous skills and learning styles may require modifications.

| ***SKILL*** | ***Details of skills*** | ***YES*** | ***NO*** | ***N/A*** |
|---|---|---|---|---|
| **Interviewing Patient** | 1. Understand patient flow (Central registration, DI registration, MR waiting room, etc.) | | | |
| | 2. Properly screen patients using screening form | | | |
| | 3. Confirm appropriate MRI scan ordered according to clinical information provided on requisition | | | |
| | 4. Knowledgeable about scans to answer patient's questions (length of scan, reports, CDs, etc.) | | | |
| | 5. Change all patients into proper hospital attire. | | | |
| **Patient Safety** | 1. Properly screen patient's implant according to Shellock's manual or internet | | | |
| | 2. Identify patients requiring orbital x-rays. | | | |
| | 3. Ensure screening form reviewed with each patient for every scan | | | |
| | 4. Knowledgeable about contrast contraindications. | | | |
| | 5. Knowledgeable about policies regarding scanning pregnant patients | | | |
| | 6. Immobilization devices | | | |
| | 7. Biochemical hazardous waste disposal containers | | | |
| **MRI Safety** | 1. Identify compatible vs. non-compatible items for MR scan room | | | |
| | 2. Locate and familiarize with MRI Policies and Procedures Manual | | | |
| | 3. Quench button | | | |
| **MRI Equipment** | 1. Familiarize yourself with coils, body parts they are used for, and proper storage | | | |
| | 2. Review table trolley set up and usage | | | |
| | 3. Review magnet controls (table movement, laser, etc.) | | | |
| | 4. Review equipment in computer room | | | |
| | 5. Locate MRI slider board, MR compatible wheelchair & stretcher | | | |
| | 6. Protocol books | | | |
| **Inventory** | 1. Familiarize yourself with items to be stocked in MRI Suite and location of Stores/Supply Area at hospital | | | |
| | 2. Identify items that need to be ordered from outside the hospital when supplies are low | | | |
| | 3. Understand how to mix up drink for Enterography studies if required | | | |

| | | | | |
|---|---|---|---|---|
| **Housekeeping** | 1. Locate linen cart for MRI | | | |
| | 2. Change linen between patients on scan table and IV prep stretchers | | | |
| | 3. Locate wipes, bags, and gowns for isolation cleaning | | | |
| | 4. Locate compatible mops for cleaning MRI scan room | | | |
| | 5. Keep rooms stocked sufficiently with linen | | | |
| | 6. Ensure area is tidy and clear of obstacles | | | |
| | 7. Locate washrooms , cafeteria/ lunchroom | | | |
| | 8. Locate Security alarm/fire alarm | | | |
| | 9. Locate Library | | | |
| | 10. Lockers (if any) | | | |
| | 11. Locate isolation gowns, gloves, masks, hand wash/eye wash stations | | | |
| **Interpersonal Skills** | 1. Demonstrate a working knowledge of site's Core Behaviours | | | |
| | 2. Show respect when dealing with co-workers, patients, families, and other health care professionals | | | |
| | 3. Demonstrate proper telephone /paging etiquette | | | |
| | 4. Be able to converse knowledgeably with patients, their families, doctor's offices, other depts. regarding scans, bookings, preps, and MRI Dept. policies and procedures | | | |
| **Personal Items** | 1. Participate in Hospital Orientation Program.<br>a. WHIMIS<br>b. Fire and safety<br>c. Mask fit test<br>d. Hand Hygiene test<br>e. Privacy and confidentiality agreement<br>f. Harassment and discrimination<br>g. Falls and Prevention test | | | |
| | 2. Introduce to other MRI personnel and radiologist | | | |
| | 3. HIS Set-up (Microsoft Outlook, Access to DI Shared Drive, MRI Cancellation List, etc.) | | | |
| | 4. Understand procedure for entering Time/Shifts | | | |

Date: _____

_____
Student Signature (read and understood)

_____

Clinical Coordinator Signature

# *Week 2: Orientation to MRI Department continues*

## *Journal #1 due*

Submit completed Reflective Practice form and Journal evaluation form below to Fanshawe on Line drop box.

## Week 2: Orientation to MRI Department continues; Journal #1 due

Week 2: The table below may be used as an outline /guide to continue the student orientation; however clinical sites may choose any order for their students to learn various protocols/skills. Students can progress at various rates, attention to previous skills and learning styles may require modifications.

| ***SKILL*** | ***Details of skills*** | ***YES*** | ***NO*** | ***N/A*** |
|---|---|---|---|---|
| **IV Skills / Contrast Injection** | 1. Be able to identify which patients will require IV starts according to the requisition | | | |
| | 2. Be able to locate all equipment required for IV starts within the MRI Dept. | | | |
| | 3. Recertify IV skills with RN & radiologist | | | |
| | 4. Identify interstitial injections and what to do for them | | | |
| | 5. Review usage of Power Injector | | | |
| | 6. Ensure proper patient screening (MRI Contrast Injection Form) | | | |
| | 7. Identify adverse reactions related to contrast injections and know when to notify RN and/or radiologist (see Section 3: MRI Contrast Policies and Procedures) | | | |
| | 8. Knowledgeable regarding contrast administration and pregnant/nursing patients | | | |
| | 9. Be able to calculate appropriate dosage of contrast according to patient's weight | | | |
| | 10. Know when to use various types of contrast | | | |
| **Computer Skills** | 1. RIS training (Log on, Scheduler, Pending List, Canc due to claustro, No show, etc.) | | | |
| | 2. Cancellation List Access Program | | | |
| | 3. PACS Scan training | | | |
| | 4. PACS Viewer training | | | |
| **Clerical Duties** | 1. Know telephone extensions or where to find them in MRI Dept | | | |
| | 2. Know where Central Bookings is located | | | |
| | 3. Know where Central Registration is located | | | |
| | 4. Know patient flow during regular hospital hours and off hours (evenings and weekends) | | | |
| | 5. Knowledgeable on finding requisitions | | | |
| | 6. Knowledgeable how to fax requisitions | | | |
| | 7. Knowledgeable regarding orbital requests | | | |
| | 8. Submit Fanshawe evaluations | | | |

## CLINICAL PROGRESS REPORT

EVALUATOR(S): _____ DATE: _____

STUDENT'S NAME: _____

Your assessment of the student's performance in the clinical setting is extremely valuable to the MRI students as he/she develops their skills. To facilitate the learning that occurs in the clinical setting, we are asking you to review the student's progress with them. All evaluations are reviewed by program coordinator. One progress report is to be completed at the end of every 2 weeks. Thank You.

| CRITERIA | YES | NO |
|---|---|---|
| Demonstrates professionalism and constructive use of time (Appearance, Conduct, Punctuality, Accountability, Initiative) | | |
| Demonstrates effective patient communication skills | | |
| Ensures personal safety and safety of coworkers, patients, family members and other allied professionals | | |
| Seeks out learning opportunities | | |
| Grade for journal submission | /10 | |

**Comments**
**Doing well with:**

**Could improve:**

I have reviewed and discussed this report with the Clinical Coordinator.

Student's signature: _____ Date: _____

*After the report has been completed, please review it with the student. It is the Clinical Coordinator's responsibility to submit the forms to the MRI Program Coordinator for review and verification. If at any time, you have concerns about the performance of a student, please contact the Program Coordinator.*


# *Week 3:* Introduction to Basic Cases

## Week 3: Introduction to Basic Cases

Students should be introduced to basic cases such as these listed below:

| ***SKILL*** | ***Details of skills*** | ***Assisted*** | ***Unassisted*** |
|---|---|---|---|
| **Position the Patient** | 1. Position patient with appropriate coil for study | | |
| | 2. Ensure coil is properly plugged in/connected | | |
| | 3. Center patient with laser using magnet controls | | |
| | 4. Safely move patient to center of bore | | |
| **MR Scanner** | 1. Review power buttons on wall unit in MR Control Room | | |
| | 2. Start-up procedure | | |
| | 3. Shut down procedure | | |
| | 4. Perform head coil QA | | |
| | 5. Review scanner interface | | |
| | 6. Review Scan set up page | | |
| | 7. Review Viewing window /card | | |
| | 8. Review post processing window/card | | |
| | 9. Review Patient Browser | | |
| **MRI Protocols** | Patient ID #'s<br>Upper Extremity- Shoulder | | |
| | Upper Extremity- Mass | | |
| | Upper Extremity- Elbow | | |
| | Upper Extremity- Wrist | | |
| | Upper Extremity- Hand | | |
| | Upper Extremity- Finger | | |
| | Lower Extremity- Pelvis/Hip | | |
| | Lower Extremity- Mass | | |
| | Lower Extremity- Knee | | |
| | . Lower Extremity- Ankle | | |
| | . Lower Extremity- Foot | | |

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# *Week 4:* Introduction to More Complex Cases

## Journal #2

Submit completed Reflective Practice form and Journal evaluation form below to Fanshawe on Line drop box.

*** The Competency Profile Evaluations should be started this week.

## Week 4: Introduction to More Complex Cases; Journal #2 due

Student should be moving towards these more complicated cases if available:

| ***SKILL*** | ***Details of skills*** ***Patient ID #*** | ***Assisted*** | ***Unassisted*** |
|---|---|---|---|
| MRI Protocols | 1. Neuro- Routine Brain C- & C+ | | |
| | 2. Neuro- MS Brain | | |
| | 3. Neuro- MS Brain & C Spine | | |
| | 4. Neuro- MS Brain & Complete Spine | | |
| | 5. Neuro- Tumour | | |
| | 6. Neuro- Orbits | | |
| | 7. Neuro- AVM | | |
| | 8. Neuro- Sella (1st Visit & Follow-up) | | |
| | 9. Neuro- Seizure C- & C+ | | |
| | 10. Neuro- Skull Base | | |
| | 11. Neuro- Trigeminal Nerve | | |
| | 12. Neuro- Aneurysm | | |
| | 13. Neuro- Routine Metal | | |
| | 14. Neuro- Spectroscopy | | |
| | 15. Neuro- Flow * | | |
| | 16. Neuro- Quick Head | | |
| | 17. Neuro- Stroke Study | | |
| | 18. Neuro- Temporal Lobes | | |
| | 19. Neuro- IAC (1st Visit & Follow-up) | | |
| | 20. Neuro- TMJ | | |
| | 21. Neuro- Soft Tissue Neck | | |
| | 22. Neuro- Sinuses * | | |
| | 23. Spine- Cervical | | |
| | 24. Spine- MS C Spine | | |
| | 25. Spine- Thoracic | | |
| | 26. Spine- Lumbar | | |
| | 27. Spine- Sacrum & Coccyx | | |
| | 28. Spine- Sacroiliac Joints | | |
| | 29. Spine- Complete | | |
| | 30. Spine- MS Survey | | |
| | 31. Spine- Scoliosis | | |

*Please Note: The above marked protocols with an * arise infrequently and a verbal review with a qualified technologist will be acceptable.

## CLINICAL PROGRESS REPORT

EVALUATOR(S): _____ DATE: _____

STUDENT'S NAME: _____

Your assessment of the student's performance in the clinical setting is extremely valuable to the MRI students as he/she develops their skills. To facilitate the learning that occurs in the clinical setting, we are asking you to review the student's progress with them. All evaluations are reviewed by program coordinator. One progress report is to be completed at the end of every 2 weeks. Thank You.

| CRITERIA | YES | NO |
|---|---|---|
| Demonstrates professionalism and constructive use of time (Appearance, Conduct, Punctuality, Accountability, Initiative) | | |
| Demonstrates effective patient communication skills | | |
| Ensures personal safety and safety of coworkers, patients, family members and other allied professionals | | |
| Seeks out learning opportunities | | |
| Grade for journal submission | /10 | |

**Comments**
**Doing well with:**

**Could improve:**

I have reviewed and discussed this report with the Clinical Coordinator.

Student's signature: _____ Date: _____

*After the report has been completed, please review it with the student. It is the Clinical Coordinator's responsibility to submit the forms to the MRI Program Coordinator for review and verification. If at any time, you have concerns about the performance of a student, please contact the Program Coordinator.*


# *Week 5:* Introduction to Abdomen and Chest Cases

## Week 5: Introduction to Abdomen and Chest Cases

Student should be working towards abdomen/chest cases:

| ***Skills*** | **Details of skills** **Patient ID #** | ***Assisted*** | ***Unassisted*** |
|---|---|---|---|
| MRI Protocols (must be aware of appropriate patient preps for specific body exams) | 1. Body- Brachial Plexus | | |
| | 2. Body- Liver | | |
| | 3. Body- Liver & MRCP | | |
| | 4. Body- MRCP | | |
| | 5. Body- Adrenals | | |
| | 6. Body- Kidneys | | |
| | 7. Body- Pancreas | | |
| | 8. Body- Abdomen | | |
| | 9. Body- AbdoPelvis | | |
| | 10. Body- any | | |
| | 11. Body- Pelvis | | |
| | 12. Body- Female Pelvis | | |
| | 13. Body- Prostate | | |
| | 14. Body- Testicles | | |
| | 15. Body- Male Pelvis | | |
| | 16. Body- Bladder, Rectum, Prostate | | |
| | 17. Body- Sternum | | |
| | 18. Body- Chest | | |
| | 19. Breast- Breast CA | | |
| | 20. Breast- Screen | | |
| | 21. Breast- Implants (Saline & Silicone) * | | |

*Please Note: The above marked protocols with an * arise infrequently and a verbal review with a qualified technologist will be acceptable.

# *Week 6:* Introduction to All Types of Cases

## Journal # 3 due

Submit completed Reflective Practice form and Journal evaluation form below to Fanshawe on Line drop box.

*** The Competency Profile Evaluations should be started this week.

## Week 6: Introduction to All Types of Cases; Journal #3 due

Student should be working towards all types of cases:

| ***Skill*** | **Details of Skills** **Patient ID#** | ***Assisted*** | ***unassisted*** |
|---|---|---|---|
| MRI Protocols | 1. Arthro- Shoulder | | |
| | 2. Arthro- Wrist * | | |
| | 3. Arthro- Hip | | |
| | 4. Arthro- Knee | | |
| | 5. Angio- Circle of Willis | | |
| | 6. Angio- Carotids | | |
| | 7. Angio- Thoracic * | | |
| | 8. Angio- Renal | | |
| | 9. Angio- Peripheral * | | |
| | 10. Angio- Abdominal Aorta | | |
| | 11. Angio- Subclavian Artery * | | |

*Please Note: The above marked protocols with an * may arise infrequently and a verbal review with a qualified technologist will be acceptable.

*** The Quality Management Competency should be attempted this week. This can be found in the competency section.

## CLINICAL PROGRESS REPORT

EVALUATOR(S): _____ DATE: _____

STUDENT'S NAME: _____

Your assessment of the student's performance in the clinical setting is extremely valuable to the MRI students as he/she develops their skills. To facilitate the learning that occurs in the clinical setting, we are asking you to review the student's progress with them. All evaluations are reviewed by program coordinator. One progress report is to be completed at the end of every 2 weeks. Thank You.

| CRITERIA | YES | NO |
|---|---|---|
| Demonstrates professionalism and constructive use of time (Appearance, Conduct, Punctuality, Accountability, Initiative) | | |
| Demonstrates effective patient communication skills | | |
| Ensures personal safety and safety of coworkers, patients, family members and other allied professionals | | |
| Seeks out learning opportunities | | |
| Grade for journal submission | /10 | |

**Comments**
**Doing well with:**

**Could improve:**

I have reviewed and discussed this report with the Clinical Coordinator.

Student's signature: _____ Date: _____

*After the report has been completed, please review it with the student. It is the Clinical Coordinator's responsibility to submit the forms to the MRI Program Coordinator for review and verification. If at any time, you have concerns about the performance of a student, please contact the Program Coordinator.*

# *Week 8:* Introduction to All Types of Cases

Submit completed Reflective Practice form and Journal evaluation form below to Fanshawe on Line drop box.

*** The Competency Profile Evaluations should be started this week.

## CLINICAL PROGRESS REPORT

EVALUATOR(S): _____ DATE: _____

STUDENT'S NAME: _____

Your assessment of the student's performance in the clinical setting is extremely valuable to the MRI students as he/she develops their skills. To facilitate the learning that occurs in the clinical setting, we are asking you to review the student's progress with them. All evaluations are reviewed by program coordinator. One progress report is to be completed at the end of every 2 weeks. Thank You.

| CRITERIA | YES | NO |
|---|---|---|
| Demonstrates professionalism and constructive use of time (Appearance, Conduct, Punctuality, Accountability, Initiative) | | |
| Demonstrates effective patient communication skills | | |
| Ensures personal safety and safety of coworkers, patients, family members and other allied professionals | | |
| Seeks out learning opportunities | | |
| Grade for journal submission | /10 | |

**Comments**
**Doing well with:**

**Could improve:**

I have reviewed and discussed this report with the Clinical Coordinator.

Student's signature: _____ Date: _____

*After the report has been completed, please review it with the student. It is the Clinical Coordinator's responsibility to submit the forms to the MRI Program Coordinator for review and verification. If at any time, you have concerns about the performance of a student, please contact the Program Coordinator.*

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# *Week 10:* Introduction to All Types of Cases

Submit completed Reflective Practice form and Journal evaluation form below to Fanshawe on Line drop box.

*** The Competency Profile Evaluations should continue this week.

## CLINICAL PROGRESS REPORT

EVALUATOR(S): _____ DATE: _____

STUDENT'S NAME: _____

Your assessment of the student's performance in the clinical setting is extremely valuable to the MRI students as he/she develops their skills. To facilitate the learning that occurs in the clinical setting, we are asking you to review the student's progress with them. All evaluations are reviewed by program coordinator. One progress report is to be completed at the end of every 2 weeks. Thank You.

| CRITERIA | YES | NO |
|---|---|---|
| Demonstrates professionalism and constructive use of time (Appearance, Conduct, Punctuality, Accountability, Initiative) | | |
| Demonstrates effective patient communication skills | | |
| Ensures personal safety and safety of coworkers, patients, family members and other allied professionals | | |
| Seeks out learning opportunities | | |
| Grade for journal submission | /10 | |

**Comments**
**Doing well with:**

**Could improve:**

I have reviewed and discussed this report with the Clinical Coordinator.

Student's signature: _____ Date: _____

*After the report has been completed, please review it with the student. It is the Clinical Coordinator's responsibility to submit the forms to the MRI Program Coordinator for review and verification. If at any time, you have concerns about the performance of a student, please contact the Program Coordinator.*

# *Week 12:* Introduction to All Types of Cases

Submit completed Reflective Practice form and Journal evaluation form below to Fanshawe on Line drop box.

*** The Competency Profile Evaluations should continue this week.

## CLINICAL PROGRESS REPORT

EVALUATOR(S): _____ DATE: _____

STUDENT'S NAME: _____

Your assessment of the student's performance in the clinical setting is extremely valuable to the MRI students as he/she develops their skills. To facilitate the learning that occurs in the clinical setting, we are asking you to review the student's progress with them. All evaluations are reviewed by program coordinator. One progress report is to be completed at the end of every 2 weeks. Thank You.

| CRITERIA | YES | NO |
|---|---|---|
| Demonstrates professionalism and constructive use of time (Appearance, Conduct, Punctuality, Accountability, Initiative) | | |
| Demonstrates effective patient communication skills | | |
| Ensures personal safety and safety of coworkers, patients, family members and other allied professionals | | |
| Seeks out learning opportunities | | |
| Grade for journal submission | /10 | |

**Comments**
**Doing well with:**

**Could improve:**

I have reviewed and discussed this report with the Clinical Coordinator.

Student's signature: _____ Date: _____

*After the report has been completed, please review it with the student. It is the Clinical Coordinator's responsibility to submit the forms to the MRI Program Coordinator for review and verification. If at any time, you have concerns about the performance of a student, please contact the Program Coordinator.*

# *Week 14:* Introduction to All Types of Cases

Submit completed Reflective Practice form and Journal evaluation form below to Fanshawe on Line drop box.

*** The Competency Profile Evaluations should continue this week.

## CLINICAL PROGRESS REPORT

EVALUATOR(S): _____ DATE: _____

STUDENT'S NAME: _____

Your assessment of the student's performance in the clinical setting is extremely valuable to the MRI students as he/she develops their skills. To facilitate the learning that occurs in the clinical setting, we are asking you to review the student's progress with them. All evaluations are reviewed by program coordinator. One progress report is to be completed at the end of every 2 weeks. Thank You.

| CRITERIA | YES | NO |
|---|---|---|
| Demonstrates professionalism and constructive use of time (Appearance, Conduct, Punctuality, Accountability, Initiative) | | |
| Demonstrates effective patient communication skills | | |
| Ensures personal safety and safety of coworkers, patients, family members and other allied professionals | | |
| Seeks out learning opportunities | | |
| Grade for journal submission | /10 | |

**Comments**
**Doing well with:**

**Could improve:**

I have reviewed and discussed this report with the Clinical Coordinator.

Student's signature: _____ Date: _____

*After the report has been completed, please review it with the student. It is the Clinical Coordinator's responsibility to submit the forms to the MRI Program Coordinator for review and verification. If at any time, you have concerns about the performance of a student, please contact the Program Coordinator.*

# *Week 16:* Introduction to All Types of Cases

Submit completed Reflective Practice form and Journal evaluation form below to Fanshawe on Line drop box.

*** The Competency Profile Evaluations should continue this week.

## CLINICAL PROGRESS REPORT

EVALUATOR(S): _____ DATE: _____

STUDENT'S NAME: _____

Your assessment of the student's performance in the clinical setting is extremely valuable to the MRI students as he/she develops their skills. To facilitate the learning that occurs in the clinical setting, we are asking you to review the student's progress with them. All evaluations are reviewed by program coordinator. One progress report is to be completed at the end of every 2 weeks. Thank You.

| CRITERIA | YES | NO |
|---|---|---|
| Demonstrates professionalism and constructive use of time (Appearance, Conduct, Punctuality, Accountability, Initiative) | | |
| Demonstrates effective patient communication skills | | |
| Ensures personal safety and safety of coworkers, patients, family members and other allied professionals | | |
| Seeks out learning opportunities | | |
| Grade for journal submission | /10 | |

**Comments**
**Doing well with:**

**Could improve:**

I have reviewed and discussed this report with the Clinical Coordinator.

Student's signature: _____ Date: _____

*After the report has been completed, please review it with the student. It is the Clinical Coordinator's responsibility to submit the forms to the MRI Program Coordinator for review and verification. If at any time, you have concerns about the performance of a student, please contact the Program Coordinator.*

# Competency Module G and H: Head and Neck

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## Module A, B, C, F, H: Clinical Competency Evaluation: Head (Routine) Attempt ____

Patient number_____ Date of Competency _____

| | Competency | YES | NO | N/A |
|---|---|---|---|---|
| **A1 Demonstrates critical thinking** | | | | |
| 1 | A1.1 Apply critical thinking and problem solving strategies to ensure best practices | | | |
| **A2 Practice in accordance with legislation, regulations and ethical guidelines related to the profession** | | | | |
| 2 | A2.1 Practice patient care that protects the patient's legal rights | | | |
| 3 | A2.3 Perform all duties in compliance with sexual abuse prevention guidelines | | | |
| 4 | A2.4 Practice in accordance with national associations/provincial regulatory body's code of ethics | | | |
| 5 | A2.5 Practice within scope of practice in accordance regulatory body legislation requirements | | | |
| 6 | A2.6 Practice in accordance with regulatory body standards of practice | | | |
| 7 | A2.7 Practice in accordance with legislation regulations/ By- laws regulating medical radiation technologists | | | |
| **A3 Demonstrate professional behaviours** | | | | |
| 8 | A3.1 Demonstrate respect and sensitivity in both patient and professional interactions | | | |
| 9 | A3.2 Utilize stress management techniques | | | |
| 10 | A3.3 Utilize conflict management techniques | | | |
| 11 | A3.5 Exchange knowledge /skills with other members of health care teams to promote collaborative practice | | | |
| 12 | A3.8 Present a professional appearance manner | | | |
| **A7 Participate in resource management** | | | | |
| 13 | A 7.1 Prioritize workflow to optimize patient outcomes | | | |
| 14 | A 7.2 Monitor inventory of material and supplies | | | |
| **B1 Provide a safe environment to minimize the risk of adverse events to the patient and to staff** | | | | |
| 15 | B1.1 Provide a safe, clean and comfortable environment | | | |
| 16 | B1.2 Transport the patient safely using equipment based on the patients physical and cognitive needs and resources available | | | |
| 17 | B1.3 Transfer the patient safely using equipment and techniques based on the patients physical and cognitive needs | | | |
| 18 | B1.4 Employ proper body mechanics to prevent harm to self and patient | | | |
| 19 | B1.5 Implement immobilization based on age, physical and cognitive status of the patient and type of procedure | | | |
| 20 | B1.6 Adjust the patients position to prevent harm and promote comfort | | | |
| 21 | B1.7 Verify patients identity following standardized protocol | | | |
| 22 | B1.8 Assess documentation for compliance with legal requirements | | | |
| 23 | B1.9 Complete documentation for compliance with regulations | | | |
| **B 2 Interact within the healthcare environment** | | | | |
| 24 | B2.1 Establish patient rapport | | | |
| 25 | B2.2 Use various forms of communication to provide relevant, accurate, and complete information | | | |
| 26 | B2.3 Exchange information regarding details of the procedure with patients and their support persons, to enable them to make informed decisions | | | |
| 27 | B2.4 Assess and Respond to cultural, ethnic, linguistic, religious and socioeconomic variable affecting communication | | | |
| **B3 Perform patient assessments and medical interventions within scope of practice in accordance with provincial regulatory body's legislation requirements.** | | | | |
| 28 | B3.1 Perform patient assessment | | | |
| 29 | B3.2 Assess, monitor and respond to various levels of patient status | | | |
| 30 | B3.3 Perform /participate in medical interventions | | | |
| 31 | B3.4 Assess, monitor and respond to the patients therapeutic and supportive devices to ensure patient safety and comfort | | | |
| 32 | B3.5 Ensure the patient's needs are met prior to release from the technologist's care | | | |

| | Competency | YES | NO | N/A |
|---|---|---|---|---|
| **B4 Implement infection control practices** | | | | |
| 33 | B4.1 Understand transmission mode of nosocomial infections (host, agent and environment) | | | |
| 34 | B4.2 Utilize routine practices for preventing the transmission of infection in health care | | | |
| 35 | B4.3 Apply principles of asepsis | | | |
| 36 | B4.4 Apply protocols when handling and disposing contaminated and biohazard materials such as sharps and body fluids | | | |
| 37 | B4.5 Adhere to protective environment protocols with patients who have compromised immunity | | | |
| 38 | B4.6 Adhere to protocols when caring for patients with antibiotic resistant organisms | | | |
| 39 | B4.7 Adhere to transmission based precautions for airborne, droplet and contact modes of transmission | | | |
| **B5 Respond to patients hygiene needs** | | | | |
| 40 | B5.1 Assist the patient with personal care | | | |
| **C1 Apply MR safety practices with respect to MR screening** | | | | |
| 41 | C1.1 Ensure that the patient screening forms are completed | | | |
| 42 | C1.2 Demonstrate an understanding of the magnetic properties of foreign objects | | | |
| 43 | C1.3 Determine whether foreign objects in /on the patient's body constitute a contraindication to MR | | | |
| 44 | C1.4 Determine exceptions to contraindications during the screening process | | | |
| 45 | C1.5 Determine patient's pregnancy status and take appropriate action | | | |
| 46 | C1.6 Screen MR personnel and support staff | | | |
| 47 | C1.7 Assess and remove any ancillary contraindicated objects from the patient, MR personnel and Support Staff | | | |
| 48 | C1.8 Identify the safety considerations related to the presence of ferromagnetic equipment/accessories (MR compatible or MR safe) in the magnetic field | | | |
| **C2 Apply safety guidelines with respect to MR bio-effects** | | | | |
| 49 | C2.1 Provide hearing protection to the patient and attending individuals. | | | |
| 50 | C2.6 Utilize safe practice in RF coil and equipment cable placement | | | |
| **F1 Perform duties that are common to all MR Imaging Procedures** | | | | |
| 51 | F1.1 Assess documentation for compliance with legal requirements | | | |
| 52 | F1.2Demonstrate an understanding of related disciplines in order to review data available from images and/or reports of previous studies and procedures | | | |
| 53 | F1.3 Utilize the clinical information provided to adapt the requested exam to the individual patient | | | |
| 54 | F1.4 Ascertain the reasons for the MR examination, given an adequate clinical history | | | |
| 55 | F1.5 Adapt the procedure for the patients physical and cognitive condition | | | |
| 56 | F1.6 Monitor patients therapeutic tubes, lines, and supportive devices | | | |
| 57 | F1.7 Utilize equipment for monitoring patient's condition during the MR procedure | | | |
| 58 | F1.8 Enter and verify patient information into the MR system | | | |
| 59 | F1.9 Activate, monitor and manage the MR acquisition | | | |
| 60 | F1.10 Maintain communication with the patient throughout the examination | | | |
| 61 | F1.12 Assess and monitor the patient's condition | | | |
| 62 | F1.13 Recognize adverse reactions | | | |
| 63 | F1.14 Respond to adverse reactions | | | |
| 64 | F1.15 Monitor vital signs | | | |
| 65 | F1.16 Verify accuracy of patient demographics on the image using respective medium | | | |
| 66 | F1.17 Perform post processing to optimize the digital image | | | |
| 67 | F1.20 Recognize and respond to the need for medical consultation before dismissal of the patient | | | |
| 68 | F1.21 Recommend additional sequences in consultation with the physician | | | |
| 69 | F1.22 Ensure the patient's needs are met prior to release from the technologist's care | | | |
| **H1 Perform a Head and Neck Imaging Procedures** | | | | |
| 70 | H1.1 Understand pathology and anomalies related to brain | | | |
| 71 | H1.2 Recognize signal characteristics consistent with pathology and anomalies related to the head and neck | | | |
| 72 | H1.3 Select the appropriate imaging parameters for head and neck imaging procedures | | | |

| | Competency | YES | NO | N/A |
|---|---|---|---|---|
| 73 | H1.4 Evaluate image quality | | | |
| 74 | H1.5 Evaluate image artifacts and take appropriate action | | | |
| 75 | H1.6 Evaluate the effects of changing imaging parameters and options on the image quality | | | |
| 76 | H1.7 Evaluate the effects of changing imaging parameters and options on the scan time | | | |
| 77 | H1.8 Evaluate the effects of changing imaging parameters and options on the anatomical coverage | | | |
| 78 | H1.9 Evaluate the effects of changing imaging parameters and options on the pathological visualization | | | |
| 79 | H1.10 Evaluate the effects of changing imaging parameters and options on the SAR reduction techniques | | | |
| 80 | H1.11 Understand the use of advanced imaging techniques | | | |
| **H2 Perform Brain imaging procedure** | | | | |
| 81 | H2.1 Understand the gross anatomy , cross sectional anatomy and physiology of the brain | | | |
| 82 | H2.2 Select the optimal coil to image the brain | | | |
| 83 | H2.3 Prepare the patient for a brain imaging procedure based on the requested protocol and the patients physical and cognitive status | | | |
| 84 | H2.4 Position the patient and coil using anatomical landmark and relational anatomy | | | |
| 85 | H2.5 Landmark the brain to the positioning light and advance the patient to isocenter | | | |
| 86 | H2.6 Select the optimal imaging plane for the brain | | | |
| 87 | H2.7 Determine and select the appropriate pulse sequences for optimal visualization of the brain | | | |
| 88 | H2.8 Consider patient related factors when modifying imaging planes and sequences to achieve optimal visualization of the brain | | | |
| 89 | H2.9 Optimize imaging parameters for the brain | | | |
| 90 | H2.10 Select the optimal imaging options for each pulse sequence for the brain | | | |
| 91 | H2.11 Determine the limit and extent of image coverage for the brain | | | |
| | **Total** | | | |

Total:

$$\frac{\text{(\# of YES)}}{91 - \text{(\# of N/A)}} = \frac{\quad}{\quad} = \quad \%$$

Must attain a minimum of 60 % to achieve satisfactory results

The evaluating Technologist reserves the right to fail the student regardless of the number of “No’s” if there was a critical error.
Example: the exam was done perfectly but the patient had a pacemaker.

_____
Student Signature Date

_____
Clinical Coordinator Date

## Module A, B, C, F, H: Clinical Competency Evaluation: Head (Contrast) Attempt ____

Patient number_____ Date of Competency _____

| | Competency | YES | NO | N/A |
|---|---|---|---|---|
| **A1 Demonstrates critical thinking** | | | | |
| 1 | A1.1 Apply critical thinking and problem solving strategies to ensure best practices | | | |
| **A2 Practice in accordance with legislation, regulations and ethical guidelines related to the profession** | | | | |
| 2 | A2.1 Practice patient care that protects the patient's legal rights | | | |
| 3 | A2.3 Perform all duties in compliance with sexual abuse prevention guidelines | | | |
| 4 | A2.4 Practice in accordance with national associations/provincial regulatory body's code of ethics | | | |
| 5 | A2.5 Practice within scope of practice in accordance regulatory body legislation requirements | | | |
| 6 | A2.6 Practice in accordance with regulatory body standards of practice | | | |
| 7 | A2.7 Practice in accordance with legislation regulations/By- laws regulating medical radiation technologists | | | |
| **A3 Demonstrate professional behaviours** | | | | |
| 8 | A3.1 Demonstrate respect and sensitivity in both patient and professional interactions | | | |
| 9 | A3.2 Utilize stress management techniques | | | |
| 10 | A3.3 Utilize conflict management techniques | | | |
| 11 | A3.5 Exchange knowledge/skills with other members of health care teams to promote collaborative practice | | | |
| 12 | A3.8 Present a professional appearance manner | | | |
| **A7 Participate in resource management** | | | | |
| 13 | A7.1 Prioritize workflow to optimize patient outcomes | | | |
| 14 | A7.2 Recognize implications of practice on budgets | | | |
| **B1 Provide a safe environment to minimize the risk of adverse events to the patient and to staff** | | | | |
| 15 | B1.1 Provide a safe, clean and comfortable environment | | | |
| 16 | B1.2 Transport the patient safely using equipment based on the patients physical and cognitive needs and resources available | | | |
| 17 | B1.3 Transfer the patient safely using equipment and techniques based on the patients physical and cognitive needs | | | |
| 18 | B1.4 Employ proper body mechanics to prevent harm to self and patient | | | |
| 19 | B1.5 Implement immobilization based on age , physical and cognitive status of the patient and type of procedure | | | |
| 20 | B1.6 Adjust the patients position to prevent harm and promote comfort | | | |
| 21 | B1.7 Verify patients identity following standardized protocol | | | |
| 22 | B1.8 Assess documentation for compliance with legal requirements | | | |
| 23 | B1.9 Complete documentation for compliance with regulations | | | |
| **B 2 Interact within the healthcare environment** | | | | |
| 24 | B2.1 Establish patient rapport | | | |
| 25 | B2.2 Use various forms of communication to provide relevant, accurate, and complete information | | | |
| 26 | B2.3 Exchange information regarding details of the procedure with patients and their support persons, to enable them to make informed decisions | | | |
| 27 | B2.4 Assess and Respond to cultural, ethnic, linguistic, religious and socioeconomic variable affecting communication | | | |
| **B3 Perform patient assessments and medical interventions within scope of practice in accordance with provincial regulatory body's legislation requirements.** | | | | |
| 28 | B3.1 Perform patient assessment | | | |
| 29 | B3.2 Assess, monitor and respond to various levels of patient status | | | |
| 30 | B3.3 Perform /participate in medical interventions | | | |
| 31 | B3.4 Assess, monitor and respond to the patients therapeutic and supportive devices to ensure patient safety and comfort | | | |
| 32 | B3.5 Ensure the patient's needs are met prior to release from the technologist's care | | | |

| | Competency | YES | NO | N/A |
|---|---|---|---|---|
| **B4 Implement infection control practices** | | | | |
| 33 | B4.1 Understand transmission mode of nosocomial infections (host, agent and environment) | | | |
| 34 | B4.2 Utilize routine practices for preventing the transmission of infection in health care | | | |
| 35 | B4.3 Apply principles of asepsis | | | |
| 36 | B4.4 Apply protocols when handling and disposing contaminated and biohazard materials such as sharps and body fluids | | | |
| 37 | B4.5 Adhere to protective environment protocols with patients who have compromised immunity | | | |
| 38 | B4.6 Adhere to protocols when caring for patients with antibiotic resistant organisms | | | |
| 39 | B4.7 Adhere to transmission based precautions for airborne , droplet and contact modes of transmission | | | |
| **B5 Respond to patients hygiene needs** | | | | |
| 40 | B5.1 Assist the patient with personal care | | | |
| **C1 Apply MR safety practices with respect to MR screening** | | | | |
| 41 | C1.1 Ensure that the patient screening forms are completed | | | |
| 42 | C1.2 Demonstrate an understanding of the magnetic properties of foreign objects | | | |
| 43 | C1.3 Determine whether foreign objects in /on the patient's body constitute a contraindication to MR | | | |
| 44 | C1.4 Determine exceptions to contraindications during the screening process | | | |
| 45 | C1.5 Determine patient's pregnancy status and take appropriate action | | | |
| 46 | C1.6 Screen MR personnel and support staff | | | |
| 47 | C1.7 Assess and remove any ancillary contraindicated objects from the patient, MR personnel and Support Staff | | | |
| 48 | C1.8 Identify the safety considerations related to the presence of ferromagnetic equipment/accessories (MR compatible or MR safe) in the magnetic field | | | |
| **C2 Apply safety guidelines with respect to MR bio-effects** | | | | |
| 49 | C2.1 Provide hearing protection to the patient and attending individuals. | | | |
| 50 | C2.6 Utilize safe practice in RF coil and equipment cable placement | | | |
| **F1 Perform duties that are common to all MR Imaging Procedures** | | | | |
| 51 | F1.1 Assess documentation for compliance with legal requirements | | | |
| 52 | F 1.2 Demonstrate an understanding of related disciplines in order to review data available from images and/or reports of previous studies and procedures | | | |
| 53 | F1.3 Utilize the clinical information provided to adapt the requested exam to the individual patient | | | |
| 54 | F1.4 Ascertain the reasons for the MR examination, given an adequate clinical history | | | |
| 55 | F1.5 Adapt the procedure for the patients physical and cognitive condition | | | |
| 56 | F1.6 Monitor patients therapeutic tubes, lines, and supportive devices | | | |
| 57 | F1.7 Utilize equipment for monitoring patient's condition during the MR procedure | | | |
| 58 | F1.8 Enter and verify patient information into the MR system | | | |
| 59 | F1.9 Activate, monitor and manage the MR acquisition | | | |
| 60 | F1.10 Maintain communication with the patient throughout the examination | | | |
| 61 | F1.11 Prepare for the administration of contrast media | | | |
| 62 | F1.12 Assess and monitor the patient's condition | | | |
| 63 | F1.13 Recognize adverse reactions | | | |
| 64 | F1.14 Respond to adverse reactions | | | |
| 65 | F1.15 Monitor vital signs | | | |
| 66 | F1.16 Verify accuracy of patient demographics on the image using respective medium | | | |
| 67 | F1.17Perform post processing to optimize the digital image | | | |
| 68 | F1.20 Recognize and respond to the need for medical consultation before dismissal of the patient | | | |
| 69 | F1.21 Recommend additional sequences in consultation with the physician | | | |
| 70 | F1.22 Ensure the patient's needs are met prior to release from the technologist's care | | | |
| **H1 Perform a Head and Neck Imaging Procedures** | | | | |
| 71 | H1.1 Understand pathology and anomalies related to the body part being examined | | | |
| 72 | H1.2 Recognize signal characteristics consistent with pathology and anomalies related to the head and neck | | | |

| | Competency | YES | NO | N/A |
|---|---|---|---|---|
| 73 | H1.3 Select the appropriate imaging parameters for head and neck imaging procedures | | | |
| 74 | H1.4 Evaluate image quality | | | |
| 75 | H1.5 Evaluate image artifacts and take appropriate action | | | |
| 76 | H1.6 Evaluate the effects of changing imaging parameters and options on the image quality | | | |
| 77 | H1.7 Evaluate the effects of changing imaging parameters and options on the scan time | | | |
| 78 | H1.8 Evaluate the effects of changing imaging parameters and options on the anatomical coverage | | | |
| 79 | H1.9 Evaluate the effects of changing imaging parameters and options on the pathological visualization | | | |
| 80 | H1.10 Evaluate the effects of changing imaging parameters and options on the SAR reduction techniques | | | |
| 81 | H1.11 Understand the use of advanced imaging techniques | | | |
| **H2 Perform a brain imaging procedure** | | | | |
| 82 | H2.1 Understand gross anatomy ,cross sectional anatomy , and physiology of the brain | | | |
| 83 | H2.2 Select the optimal coil to image the brain | | | |
| 84 | H2.3 Prepare the patient for a brain imaging procedure based on the requested protocol and the patients physical and cognitive status | | | |
| 85 | H2.4 Position the patient and coil using anatomical landmark and relational anatomy | | | |
| 86 | H2.5 Landmark the brain to the positioning light and advance the patient to isocenter | | | |
| 87 | H2.6 Select the optimal imaging plane for the body part being examined | | | |
| 88 | H2.7 Determine and select the appropriate pulse sequences for optimal visualization of the body part being examined | | | |
| 89 | H2.8 Consider patient related factors when modifying imaging planes and sequences to achieve optimal visualization of the brain | | | |
| 90 | H2.9 Optimize imaging parameters for the body part being examined | | | |
| 91 | H2.10 Select the optimal imaging options for each pulse sequence for the body part being examined | | | |
| 92 | H2.11 Determine the limit and extent of image coverage for the body part being examined | | | |
| | **Total** | | | |

Total:

$$92 - (\#\text{ of N/A}) = \frac{(\#\text{ of YES})}{(\#\text{ of N/A})} = \%$$

Must attain a minimum of 60 % to achieve satisfactory results

The evaluating Technologist reserves the right to fail the student regardless of the number of “No’s” if there was a critical error.
Example: the exam was done perfectly but the patient had a pacemaker.

_____
Student Signature Date

_____
Evaluators Signature Date

## Module A, B, C, F, and H: Clinical Competency Evaluation: Head (Seizures) Attempt __

Patient Number _____Date of Competency _____

| | Competency | YES | NO | N/A |
|---|---|---|---|---|
| **A1 Demonstrates critical thinking** | | | | |
| 1 | A1.1 Apply critical thinking and problem solving strategies to ensure best practices | | | |
| **A2 Practice in accordance with legislation, regulations and ethical guidelines related to the profession** | | | | |
| 2 | A2.1 Practice patient care that protects the patient's legal rights | | | |
| 3 | A2.3 Perform all duties in compliance with sexual abuse prevention guidelines | | | |
| 4 | A2.4 Practice in accordance with national associations/provincial regulatory body's code of ethics | | | |
| 5 | A2.5 Practice within scope of practice in accordance regulatory body legislation requirements | | | |
| 6 | A2.6 Practice in accordance with regulatory body standards of practice | | | |
| 7 | A2.7 Practice in accordance with legislation regulations/ By- laws regulating medical radiation technologists | | | |
| **A3 Demonstrate professional behaviours** | | | | |
| 8 | A3.1 Demonstrate respect and sensitivity in both patient and professional interactions | | | |
| 9 | A3.2 Utilize stress management techniques | | | |
| 10 | A3.3 Utilize conflict management techniques | | | |
| 11 | A3.5 Exchange knowledge /skills with other members of health care teams to promote collaborative practice | | | |
| 12 | A3.8 Present a professional appearance manner | | | |
| **A7 Participate in resource management** | | | | |
| 13 | A 7.1 Prioritize work flow to optimize patient outcomes | | | |
| 14 | A 7.2 Monitor inventory of materials and supplies | | | |
| **B1 Provide a safe environment to minimize the risk of adverse events to the patient and to staff** | | | | |
| 15 | B1.1 Provide a safe, clean and comfortable environment | | | |
| 16 | B1.2 Transport the patient safely using equipment based on the patients physical and cognitive needs and resources available | | | |
| 17 | B1.3 Transfer the patient safely using equipment and techniques based on the patients physical and cognitive needs | | | |
| 18 | B1.4 Employ proper body mechanics to prevent harm to self and patient | | | |
| 19 | B1.5 Implement immobilization based on age , physical and cognitive status of the patient and type of procedure | | | |
| 20 | B1.6 Adjust the patients position to prevent harm and promote comfort | | | |
| 21 | B1.7 Verify patients identity following standardized protocol | | | |
| 22 | B1.8 Assess documentation for compliance with legal requirements | | | |
| 23 | B1.9 Complete documentation for compliance with regulations | | | |
| **B 2 Interact within the healthcare environment** | | | | |
| 24 | B2.1 Establish patient rapport | | | |
| 25 | B2.2 Use various forms of communication to provide relevant, accurate, and complete information | | | |
| 26 | B2.3 Exchange information regarding details of the procedure with patients and their support persons, to enable them to make informed decisions | | | |
| 27 | B2.4 Assess and Respond to cultural, ethnic, linguistic, religious and socioeconomic variable affecting communication | | | |
| **B3 Perform patient assessments and medical interventions within scope of practice in accordance with provincial regulatory body's legislation requirements.** | | | | |
| 28 | B3.1 Perform patient assessment | | | |
| 29 | B3.2 Assess, monitor and respond to various levels of patient status | | | |
| 30 | B3.3 Perform /participate in medical interventions | | | |
| 31 | B3.4 Assess, monitor and respond to the patients therapeutic and supportive devices to ensure patient safety and comfort | | | |
| 32 | B3.5 Ensure the patient's needs are met prior to release from the technologist's care | | | |

| | Competency | YES | NO | N/A |
|---|---|---|---|---|
| **B4 Implement infection control practices** | | | | |
| 33 | B4.1 Understand transmission mode of nosocomial infections (host, agent and environment) | | | |
| 34 | B4.2 Utilize routine practices for preventing the transmission of infection in health care | | | |
| 35 | B4.3 Apply principles of asepsis | | | |
| 36 | B4.4 Apply protocols when handling and disposing contaminated and biohazard materials such as sharps and body fluids | | | |
| 37 | B4.5 Adhere to protective environment protocols with patients who have compromised immunity | | | |
| 38 | B4.6 Adhere to protocols when caring for patients with antibiotic resistant organisms | | | |
| 39 | B4.7 Adhere to transmission based precautions for airborne, droplet and contact modes of transmission | | | |
| **B5 Respond to patients hygiene needs** | | | | |
| 40 | B5.1 Assist the patient with personal care | | | |
| **C1 Apply MR safety practices with respect to MR screening** | | | | |
| 41 | C1.1 Ensure that the patient screening forms are completed | | | |
| 42 | C1.2 Demonstrate an understanding of the magnetic properties of foreign objects | | | |
| 43 | C1.3 Determine whether foreign objects in /on the patient's body constitute a contraindication to MR | | | |
| 44 | C1.4 Determine exceptions to contraindications during the screening process | | | |
| 45 | C1.5 Determine patient's pregnancy status and take appropriate action | | | |
| 46 | C1.6 Screen MR personnel and support staff | | | |
| 47 | C1.7 Assess and remove any ancillary contraindicated objects from the patient, MR personnel and Support Staff | | | |
| 48 | C1.8 Identify the safety considerations related to the presence of ferromagnetic equipment/accessories (MR compatible or MR safe) in the magnetic field | | | |
| **C2 Apply safety guidelines with respect to MR bio-effects** | | | | |
| 49 | C2.1 Provide hearing protection to the patient and attending individuals. | | | |
| 50 | C2.6 Utilize safe practice in RF coil and equipment cable placement | | | |
| **F1 Perform duties that are common to all MR Imaging Procedures** | | | | |
| 51 | F1.1 Assess documentation for compliance with legal requirements | | | |
| 52 | F 1.2 Demonstrate an understanding of related disciplines in order to review data available from images and/or reports of previous studies and procedures | | | |
| 53 | F1.3 Utilize the clinical information provided to adapt the requested exam to the individual patient | | | |
| 54 | F1.4 Ascertain the reasons for the MR examination, given an adequate clinical history | | | |
| 55 | F1.5 Adapt the procedure for the patients physical and cognitive condition | | | |
| 56 | F1.6 Monitor patients therapeutic tubes, lines, and supportive devices | | | |
| 57 | F1.7 Utilize equipment for monitoring patient's condition during the MR procedure | | | |
| 58 | F1.8 Enter and verify patient information into the MR system | | | |
| 59 | F1.9 Activate, monitor and manage the MR acquisition | | | |
| 60 | F1.10 Maintain communication with the patient throughout the examination | | | |
| 61 | F1.12 Assess and monitor the patient's condition | | | |
| 62 | F1.13 Recognize adverse reactions | | | |
| 63 | F1.14 Respond to adverse reactions | | | |
| 64 | F1.15 Monitor vital signs | | | |
| 65 | F1.16 Verify accuracy of patient demographics on the image using respective medium | | | |
| 66 | F1.17 Perform post processing to optimize the digital image | | | |
| 67 | F1.20 Recognize and respond to the need for medical consultation before dismissal of the patient | | | |
| 68 | F1.21 Recommend additional sequences in consultation with the physician | | | |
| 69 | F1.22 Ensure the patient's needs are met prior to release from the technologist's care | | | |
| **H1 Perform a Head and Neck Imaging Procedures** | | | | |
| 70 | H1.1 Understand pathology and anomalies related to the head and neck | | | |
| 71 | H1.2 Recognize signal characteristics consistent with pathology and anomalies related to the head and neck | | | |
| 72 | H1.3 Select the appropriate imaging parameters for head and neck imaging procedures | | | |

| | Competency | YES | NO | N/A |
|---|---|---|---|---|
| 73 | H1.4 Evaluate image quality | | | |
| 74 | H1.5 Evaluate image artifacts and take appropriate action | | | |
| 75 | H1.6 Evaluate the effects of changing imaging parameters and options on the image quality | | | |
| 76 | H1.7 Evaluate the effects of changing imaging parameters and options on the scan time | | | |
| 77 | H1.8 Evaluate the effects of changing imaging parameters and options on the anatomical coverage | | | |
| 78 | H1.9 Evaluate the effects of changing imaging parameters and options on the pathological visualization | | | |
| 79 | H1.10 Evaluate the effects of changing imaging parameters and options on the SAR reduction techniques | | | |
| 80 | H1.11 Understand the use of advanced imaging techniques | | | |
| **H3 Perform temporal lobe imaging procedure** | | | | |
| 81 | H3.1 Understand the gross anatomy, cross sectional anatomy and physiology of the temporal lobes | | | |
| 82 | H3.2.2 Select the optimal coil to image the temporal lobe | | | |
| 83 | H3.3 Prepare the patient for a brain imaging procedure based on the requested protocol and the patients physical and cognitive status | | | |
| 84 | H3.4 Position the patient and coil using anatomical landmark and relational anatomy | | | |
| 85 | H3.5 Landmark the temporal lobe to the positioning light and advance the patient to isocenter | | | |
| 86 | H3.6 Select the optimal imaging plane for the temporal lobe | | | |
| 87 | H3.7 Determine and select the appropriate pulse sequences for optimal visualization of the temporal lobe | | | |
| 88 | H3.8 Consider patient related factors when modifying imaging planes and sequences to achieve optimal visualization of the temporal lobe | | | |
| 89 | H3.9 Optimize imaging parameters for the body part being examined | | | |
| 90 | H3.10 Select the optimal imaging options for each pulse sequence for the temporal lobe | | | |
| 91 | H3.11 Determine the limit and extent of image coverage for the temporal lobe | | | |
| | **Total** | | | |

Total:

$$\frac{\text{(\# of YES)}}{91 - \text{(\# of N/A)}} = \frac{\quad}{\quad} = \quad \%$$

Must attain a minimum of 60 % to achieve satisfactory results

The evaluating Technologist reserves the right to fail the student regardless of the number of “No’s” if there was a critical error.
Example: the exam was done perfectly but the patient had a pacemaker.

_____
Student Signature Date

_____
Evaluator’s signature Date

## Module A, B, C, F, H: Clinical Competency Evaluation: Head (Sella/Pituitary) Attempt ___

Number of patient _____Date of Competency _____

| | Competency | YES | NO | N/A |
|---|---|---|---|---|
| **A1 Demonstrates critical thinking** | | | | |
| 1 | A1.1 Apply critical thinking and problem solving strategies to ensure best practices | | | |
| **A2 Practice in accordance with legislation, regulations and ethical guidelines related to the profession** | | | | |
| 2 | A2.1 Practice patient care that protects the patient's legal rights | | | |
| 3 | A2.3 Perform all duties in compliance with sexual abuse prevention guidelines | | | |
| 4 | A2.4 Practice in accordance with national associations/provincial regulatory body's code of ethics | | | |
| 5 | A2.5 Practice within scope of practice in accordance regulatory body legislation requirements | | | |
| 6 | A2.6 Practice in accordance with regulatory body standards of practice | | | |
| 7 | A2.7 Practice in accordance with legislation regulations/ By- laws regulating medical radiation technologists | | | |
| **A3 Demonstrate professional behaviours** | | | | |
| 8 | A3.1 Demonstrate respect and sensitivity in both patient and professional interactions | | | |
| 9 | A3.2 Utilize stress management techniques | | | |
| 10 | A3.3 Utilize conflict management techniques | | | |
| 11 | A3.5 Exchange knowledge /skills with other members of health care teams to promote collaborative practice | | | |
| 12 | A3.8 Present a professional appearance manner | | | |
| **A 7 Participate in resource management** | | | | |
| 13 | A7.1 Prioritize work flow to optimize patient outcomes | | | |
| 14 | A7.2 Monitor inventory of materials and supplies | | | |
| **B1 Provide a safe environment to minimize the risk of adverse events to the patient and to staff** | | | | |
| 15 | B1.1 Provide a safe, clean and comfortable environment | | | |
| 16 | B1.2 Transport the patient safely using equipment based on the patients physical and cognitive needs and resources available | | | |
| 17 | B1.3 Transfer the patient safely using equipment and techniques based on the patients physical and cognitive needs | | | |
| 18 | B1.4 Employ proper body mechanics to prevent harm to self and patient | | | |
| 19 | B1.5 Implement immobilization based on age , physical and cognitive status of the patient and type of procedure | | | |
| 20 | B1.6 Adjust the patients position to prevent harm and promote comfort | | | |
| 21 | B1.7 Verify patients identity following standardized protocol | | | |
| 22 | B1.8 Assess documentation for compliance with legal requirements | | | |
| 23 | B1.9 Complete documentation for compliance with regulations | | | |
| **B 2 Interact within the healthcare environment** | | | | |
| 24 | B2.1 Establish patient rapport | | | |
| 25 | B2.2 Use various forms of communication to provide relevant, accurate, and complete information | | | |
| 26 | B2.3 Exchange information regarding details of the procedure with patients and their support persons, to enable them to make informed decisions | | | |
| 27 | B2.4 Assess and Respond to cultural, ethnic, linguistic, religious and socioeconomic variable affecting communication | | | |
| **B3 Perform patient assessments and medical interventions within scope of practice in accordance with provincial regulatory body's legislation requirements.** | | | | |
| 28 | B3.1 Perform patient assessment | | | |
| 29 | B3.2 Assess, monitor and respond to various levels of patient status | | | |
| 30 | B3.3 Perform /participate in medical interventions | | | |
| 31 | B3.4 Assess, monitor and respond to the patient's therapeutic and supportive devices to ensure patient safety and comfort | | | |

| | Competency | YES | NO | N/A |
|---|---|---|---|---|
| 32 | B3.5 Ensure the patient's needs are met prior to release from the technologist's care | | | |
| **B4 Implement infection control practices** | | | | |
| 33 | B4.1 Understand transmission mode of nosocomial infections (host, agent and environment) | | | |
| 34 | B4.2 Utilize routine practices for preventing the transmission of infection in health care | | | |
| 35 | B4.3 Apply principles of asepsis | | | |
| 36 | B4.4 Apply protocols when handling and disposing contaminated and biohazard materials such as sharps and body fluids | | | |
| 37 | B4.5 Adhere to protective environment protocols with patients who have compromised immunity | | | |
| 38 | B4.6 Adhere to protocols when caring for patients with antibiotic resistant organisms | | | |
| 39 | B4.7 Adhere to transmission based precautions for airborne, droplet and contact modes of transmission | | | |
| **B5 Respond to patients hygiene needs** | | | | |
| 40 | B5.1 Assist the patient with personal care | | | |
| **C1** | **Apply MR safety practices with respect to MR screening** | | | |
| 41 | C1.1 Ensure that the patient screening forms are completed | | | |
| 42 | C1.2 Demonstrate an understanding of the magnetic properties of foreign objects | | | |
| 43 | C1.3 Determine whether foreign objects in /on the patient's body constitute a contraindication to MR | | | |
| 44 | C1.4 Determine exceptions to contraindications during the screening process | | | |
| 45 | C1.5 Determine patient's pregnancy status and take appropriate action | | | |
| 46 | C1.6 Screen MR personnel and support staff | | | |
| 47 | C1.7 Assess and remove any ancillary contraindicated objects from the patient, MR personnel and Support Staff | | | |
| 48 | C1.8 Identify the safety considerations related to the presence of ferromagnetic equipment/accessories (MR compatible or MR safe) in the magnetic field | | | |
| **C2 Apply safety guidelines with respect to MR bio-effects** | | | | |
| 49 | C2.1 Provide hearing protection to the patient and attending individuals. | | | |
| 50 | C2.6 Utilize safe practice in RF coil and equipment cable placement | | | |
| **F1 Perform duties that are common to all MR Imaging Procedures** | | | | |
| 51 | F1.1 Assess documentation for compliance with legal requirements | | | |
| 52 | F 1.2 Demonstrate an understanding of related disciplines in order to review data available from images and/or reports of previous studies and procedures | | | |
| 53 | F1.3 Utilize the clinical information provided to adapt the requested exam to the individual patient | | | |
| 54 | F1.4 Ascertain the reasons for the MR examination, given an adequate clinical history | | | |
| 55 | F1.5 Adapt the procedure for the patient's physical and cognitive condition | | | |
| 56 | F1.6 Monitor patient's therapeutic tubes, lines, and supportive devices | | | |
| 57 | F1.7 Utilize equipment for monitoring patient's condition during the MR procedure | | | |
| 58 | F1.8 Enter and verify patient information into the MR system | | | |
| 59 | F1.9 Activate, monitor and manage the MR acquisition | | | |
| 60 | F1.10 Maintain communication with the patient throughout the examination | | | |
| 61 | F1.12 Assess and monitor the patient's condition | | | |
| 62 | F1.13 Recognize adverse reactions | | | |
| 63 | F1.14 Respond to adverse reactions | | | |
| 64 | F1.15 Monitor vital signs | | | |
| 65 | F1.16 Verify accuracy of patient demographics on the image using respective medium | | | |
| 66 | F1.17 Perform post processing to optimize the digital image | | | |
| 67 | F1.20 Recognize and respond to the need for medical consultation before dismissal of the patient | | | |
| 68 | F1.21 Recommend additional sequences in consultation with the physician | | | |
| 69 | F1.22 Ensure the patient's needs are met prior to release from the technologist's care | | | |
| **H1 Perform a Head and Neck Imaging Procedures** | | | | |
| 70 | H1.1 Understand pathology and anomalies related to the head and neck | | | |
| 71 | H1.2 Recognize signal characteristics consistent with pathology and anomalies related to the head and neck | | | |

| | Competency | YES | NO | N/A |
|---|---|---|---|---|
| 72 | H1.3 Select the appropriate imaging parameters for head and neck imaging procedures | | | |
| 73 | H1.4 Evaluate image quality | | | |
| 74 | H1.5 Evaluate image artifacts and take appropriate action | | | |
| 75 | H1.6 Evaluate the effects of changing imaging parameters and options on the image quality | | | |
| 76 | H1.7 Evaluate the effects of changing imaging parameters and options on the scan time | | | |
| 77 | H1.8 Evaluate the effects of changing imaging parameters and options on the anatomical coverage | | | |
| 78 | H1.9 Evaluate the effects of changing imaging parameters and options on the pathological visualization | | | |
| 79 | H1.10 Evaluate the effects of changing imaging parameters and options on the SAR reduction techniques | | | |
| 80 | H1.11 Understand the use of advanced imaging techniques | | | |
| **H4 Perform pituitary imaging procedure** | | | | |
| 81 | H4.1 Understand the gross anatomy, cross sectional anatomy and physiology of the pituitary | | | |
| 82 | H4.2 Select the optimal coil to image the pituitary | | | |
| 83 | H4.3 Prepare the patient for pituitary imaging procedure based on the requested protocol and the patient's physical and cognitive status | | | |
| 84 | H4.4 Position the patient and coil using anatomical landmark and relational anatomy | | | |
| 85 | H4.5 Landmark the brain to the positioning light and advance the patient to isocenter | | | |
| 86 | H4.6 Select the optimal imaging plane for the pituitary glad | | | |
| 87 | H4.7 Determine and select the appropriate pulse sequences for optimal visualization of the body part being examined | | | |
| 88 | H4.8 Consider patient related factors when modifying imaging planes and sequences to achieve optimal visualization of the pituitary | | | |
| 89 | H4.9 Optimize imaging parameters for the body part being examined | | | |
| 90 | H4.10 Select the optimal imaging options for each pulse sequence for the pituitary | | | |
| 91 | H4.11 Determine the limit and extent of image coverage for the pituitary | | | |
| | **Total** | | | |

Total:

$$\frac{\text{(\# of YES)}}{91 - \text{(\# of N/A)}} = \frac{\quad}{\quad} = \quad \%$$

Must attain a minimum of 60 % to achieve satisfactory results

The evaluating Technologist reserves the right to fail the student regardless of the number of "No's" if there was a critical error.
Example: the exam was done perfectly but the patient had a pacemaker.

_____
Student Signature Date

_____
Evaluator's signature Date

## Module A, B, C, F, H: Clinical Competency Evaluation: Head (Internal Auditory Canal)

**Attempt ___**

Number of patient _____Date of Competency _____

| | Competency | YES | NO | N/A |
|---|---|---|---|---|
| **A1 Demonstrates critical thinking** | | | | |
| 1 | A1.1 Apply critical thinking and problem solving strategies to ensure best practices | | | |
| **A2 Practice in accordance with legislation, regulations and ethical guidelines related to the profession** | | | | |
| 2 | A2.1 Practice patient care that protects the patient's legal rights | | | |
| 3 | A2.3 Perform all duties in compliance with sexual abuse prevention guidelines | | | |
| 4 | A2.4 Practice in accordance with national associations/provincial regulatory body's code of ethics | | | |
| 5 | A2.5 Practice within scope of practice in accordance regulatory body legislation requirements | | | |
| 6 | A2.6 Practice in accordance with regulatory body standards of practice | | | |
| 7 | A2.7 Practice in accordance with legislation regulations/ By- laws regulating medical radiation technologists | | | |
| **A3 Demonstrate professional behaviours** | | | | |
| 8 | A3.1 Demonstrate respect and sensitivity in both patient and professional interactions | | | |
| 9 | A3.2 Utilize stress management techniques | | | |
| 10 | A3.3 Utilize conflict management techniques | | | |
| 11 | A3.5 Exchange knowledge /skills with other members of health care teams to promote collaborative practice | | | |
| 12 | A3.8 Present a professional appearance manner | | | |
| | **A7 Participate in resource management** | | | |
| 13 | A7.1 Prioritize work flow to optimize patient outcomes | | | |
| 14 | A7.2 Monitor inventory of material and supplies | | | |
| **B1 Provide a safe environment to minimize the risk of adverse events to the patient and to staff** | | | | |
| 15 | B1.1 Provide a safe, clean and comfortable environment | | | |
| 16 | B1.2 Transport the patient safely using equipment based on the patient's physical and cognitive needs and resources available | | | |
| 17 | B1.3 Transfer the patient safely using equipment and techniques based on the patient's physical and cognitive needs | | | |
| 18 | B1.4 Employ proper body mechanics to prevent harm to self and patient | | | |
| 19 | B1.5 Implement immobilization based on age , physical and cognitive status of the patient and type of procedure | | | |
| 20 | B1.6 Adjust the patients position to prevent harm and promote comfort | | | |
| 21 | B1.7 Verify patients identity following standardized protocol | | | |
| 22 | B1.8 Assess documentation for compliance with legal requirements | | | |
| 23 | B1.9 Complete documentation for compliance with regulations | | | |
| **B 2 Interact within the healthcare environment** | | | | |
| 24 | B2.1 Establish patient rapport | | | |
| 25 | B2.2 Use various forms of communication to provide relevant, accurate, and complete information | | | |
| 26 | B2.3 Exchange information regarding details of the procedure with patients and their support persons, to enable them to make informed decisions | | | |
| 27 | B2.4 Assess and Respond to cultural, ethnic, linguistic, religious and socioeconomic variable affecting communication | | | |
| **B3 Perform patient assessments and medical interventions within scope of practice in accordance with provincial regulatory body's legislation requirements.** | | | | |
| 28 | B3.1 Perform patient assessment | | | |
| 29 | B3.2 Assess, monitor and respond to various levels of patient status | | | |
| 30 | B3.3 Perform /participate in medical interventions | | | |
| 31 | B3.4 Assess, monitor and respond to the patient's therapeutic and supportive devices to ensure patient safety and comfort | | | |
| 32 | B3.5 Ensure the patient's needs are met prior to release from the technologist's care | | | |

| | Competency | YES | NO | N/A |
|---|---|---|---|---|
| **B4 Implement infection control practices** | | | | |
| 33 | B4.1 Understand transmission mode of nosocomial infections (host, agent and environment) | | | |
| 34 | B4.2 Utilize routine practices for preventing the transmission of infection in health care | | | |
| 35 | B4.3 Apply principles of asepsis | | | |
| 36 | B4.4 Apply protocols when handling and disposing contaminated and biohazard materials such as sharps and body fluids | | | |
| 37 | B4.5 Adhere to protective environment protocols with patients who have compromised immunity | | | |
| 38 | B4.6 Adhere to protocols when caring for patients with antibiotic resistant organisms | | | |
| 39 | B4.7 Adhere to transmission based precautions for airborne, droplet and contact modes of transmission | | | |
| **B5 Respond to patients hygiene needs** | | | | |
| 40 | B5.1 Assist the patient with personal care | | | |
| **C1 Apply MR safety practices with respect to MR screening** | | | | |
| 41 | C1.1 Ensure that the patient screening forms are completed | | | |
| 42 | C1.2 Demonstrate an understanding of the magnetic properties of foreign objects | | | |
| 43 | C1.3 Determine whether foreign objects in /on the patient's body constitute a contraindication to MR | | | |
| 44 | C1.4 Determine exceptions to contraindications during the screening process | | | |
| 45 | C1.5 Determine patient's pregnancy status and take appropriate action | | | |
| 46 | C1.6 Screen MR personnel and support staff | | | |
| 47 | C1.7 Assess and remove any ancillary contraindicated objects from the patient, MR personnel and Support Staff | | | |
| 48 | C1.8 Identify the safety considerations related to the presence of ferromagnetic equipment/accessories (MR compatible or MR safe) in the magnetic field | | | |
| **C2 Apply safety guidelines with respect to MR bio-effects** | | | | |
| 49 | C2.1 Provide hearing protection to the patient and attending individuals. | | | |
| 50 | C2.6 Utilize safe practice in RF coil and equipment cable placement | | | |
| **F1 Perform duties that are common to all MR Imaging Procedures** | | | | |
| 51 | F1.1 Assess documentation for compliance with legal requirements | | | |
| 52 | F 1.2Demonstrate an understanding of related disciplines in order to review data available from images and/or reports of previous studies and procedures | | | |
| 53 | F1.3 Utilize the clinical information provided to adapt the requested exam to the individual patient | | | |
| 54 | F1.4 Ascertain the reasons for the MR examination, given an adequate clinical history | | | |
| 55 | F1.5 Adapt the procedure for the patient's physical and cognitive condition | | | |
| 56 | F1.6 Monitor patient's therapeutic tubes, lines, and supportive devices | | | |
| 57 | F1.7 Utilize equipment for monitoring patient's condition during the MR procedure | | | |
| 58 | F1.8 Enter and verify patient information into the MR system | | | |
| 59 | F1.9 Activate, monitor and manage the MR acquisition | | | |
| 60 | F1.10 Maintain communication with the patient throughout the examination | | | |
| 61 | F1.12 Assess and monitor the patient's condition | | | |
| 62 | F1.13 Recognize adverse reactions | | | |
| 63 | F1.14 Respond to adverse reactions | | | |
| 64 | F1.15 Monitor vital signs | | | |
| 65 | F1.16 Verify accuracy of patient demographics on the image using respective medium | | | |
| 66 | F1.17 Perform post processing to optimize the digital image | | | |
| 67 | F1.20 Recognize and respond to the need for medical consultation before dismissal of the patient | | | |
| 68 | F1.21 Recommend additional sequences in consultation with the physician | | | |
| 69 | F1.22 Ensure the patient's needs are met prior to release from the technologist's care | | | |
| **H1 Perform a Head and Neck Imaging Procedures** | | | | |
| 70 | H1.1 Understand pathology and anomalies related to the head and neck | | | |
| 71 | H1.2 Recognize signal characteristics consistent with pathology and anomalies related to the head and neck | | | |
| 72 | H1.3 Select the appropriate imaging parameters for the head and neck imaging procedures | | | |

| | Competency | YES | NO | N/A |
|---|---|---|---|---|
| 73 | H1.4 Evaluate image quality | | | |
| 74 | H1.5 Evaluate image artifacts and take appropriate action | | | |
| 75 | H1.6 Evaluate the effects of changing imaging parameters and options on the image quality | | | |
| 76 | H1.7 Evaluate the effects of changing imaging parameters and options on the scan time | | | |
| 77 | H1.8 Evaluate the effects of changing imaging parameters and options on the anatomical coverage | | | |
| 78 | H1.9 Evaluate the effects of changing imaging parameters and options on the pathological visualization | | | |
| 79 | H1.10 Evaluate the effects of changing imaging parameters and options on the SAR reduction techniques | | | |
| 80 | H1.11 Understand the use of advanced imaging techniques | | | |
| **H9 Perform imaging procedure of Internal Auditory Canal** | | | | |
| 81 | H9.1 Understand the gross anatomy , cross sectional anatomy and physiology internal auditory canal | | | |
| 82 | H9.2 Select the optimal coil to image the internal auditory canal | | | |
| 83 | H9.3 Prepare the patient for at the internal auditory canal imaging procedure based on the requested protocol and the patient's physical and cognitive status | | | |
| 84 | H9.4 Position the patient and coil using anatomical landmark and relational anatomy | | | |
| 85 | H9.5 Landmark the brain to the positioning light and advance the patient to isocenter | | | |
| 86 | H9.6 Select the optimal imaging plane for the internal auditory canal | | | |
| 87 | H9.7 Determine and select the appropriate pulse sequences for optimal visualization of the internal auditory canal | | | |
| 88 | H9.8 Consider patient related factors when modifying imaging planes and sequences to achieve optimal visualization of the internal auditory canal | | | |
| 89 | H9.9 Optimize imaging parameters for the internal auditory canal | | | |
| 90 | H9.10 Select the optimal imaging options for each pulse sequence for the internal auditory canal | | | |
| 91 | H9.11 Determine the limit and extent of image coverage for the internal auditory canal | | | |
| | **Total** | | | |

Total:

$$\frac{\text{(\# of YES)}}{91 - \text{(\# of N/A)}} = \frac{\quad}{\quad} = \quad \%$$

Must attain a minimum of 60 % to achieve satisfactory results

The evaluating Technologist reserves the right to fail the student regardless of the number of "No's" if there was a critical error.
Example: the exam was done perfectly but the patient had a pacemaker.

_____
Student Signature Date

_____
Evaluator's signature Date

## Module A, B, C, F, and G: Clinical Competency Evaluation: Head (Temporal Mandibular joints) Attempt ____

Number of patient _____Date of Competency _____

| | Competency | YES | NO | N/A |
|---|---|---|---|---|
| **A1 Demonstrates critical thinking** | | | | |
| 1 | A1.1 Apply critical thinking and problem solving strategies to ensure best practices | | | |
| **A2 Practice in accordance with legislation, regulations and ethical guidelines related to the profession** | | | | |
| 2 | A2.1 Practice patient care that protects the patient's legal rights | | | |
| 3 | A2.3 Perform all duties in compliance with sexual abuse prevention guidelines | | | |
| 4 | A2.4 Practice in accordance with national associations/provincial regulatory body's code of ethics | | | |
| 5 | A2.5 Practice within scope of practice in accordance regulatory body legislation requirements | | | |
| 6 | A2.6 Practice in accordance with regulatory body standards of practice | | | |
| 7 | A2.7 Practice in accordance with legislation regulations/ By- laws regulating medical radiation technologists | | | |
| **A3 Demonstrate professional behaviours** | | | | |
| 8 | A3.1 Demonstrate respect and sensitivity in both patient and professional interactions | | | |
| 9 | A3.2 Utilize stress management techniques | | | |
| 10 | A3.3 Utilize conflict management techniques | | | |
| 11 | A3.5 Exchange knowledge /skills with other members of health care teams to promote collaborative practice | | | |
| 12 | A3.8 Present a professional appearance manner | | | |
| | **A7 Participate in resource management** | | | |
| 13 | A7.1 Prioritize work flow to optimize patient outcomes | | | |
| 14 | A7.2 Monitor inventory of material and supplies | | | |
| **B1 Provide a safe environment to minimize the risk of adverse events to the patient and to staff** | | | | |
| 15 | B1.1 Provide a safe, clean and comfortable environment | | | |
| 16 | B1.2 Transport the patient safely using equipment based on the patient's physical and cognitive needs and resources available | | | |
| 17 | B1.3 Transfer the patient safely using equipment and techniques based on the patient's physical and cognitive needs | | | |
| 18 | B1.4 Employ proper body mechanics to prevent harm to self and patient | | | |
| 19 | B1.5 Implement immobilization based on age , physical and cognitive status of the patient and type of procedure | | | |
| 20 | B1.6 Adjust the patients position to prevent harm and promote comfort | | | |
| 21 | B1.7 Verify patients identity following standardized protocol | | | |
| 22 | B1.8 Assess documentation for compliance with legal requirements | | | |
| 23 | B1.9 Complete documentation for compliance with regulations | | | |
| **B 2 Interact within the healthcare environment** | | | | |
| 24 | B2.1 Establish patient rapport | | | |
| 25 | B2.2 Use various forms of communication to provide relevant, accurate, and complete information | | | |
| 26 | B2.3 Exchange information regarding details of the procedure with patients and their support persons, to enable them to make informed decisions | | | |
| 27 | B2.4 Assess and Respond to cultural, ethnic, linguistic, religious and socioeconomic variable affecting communication | | | |
| **B3 Perform patient assessments and medical interventions within scope of practice in accordance with provincial regulatory body's legislation requirements.** | | | | |
| 28 | B3.1 Perform patient assessment | | | |
| 29 | B3.2 Assess, monitor and respond to various levels of patient status | | | |
| 30 | B3.3 Perform /participate in medical interventions | | | |
| 31 | B3.4 Assess, monitor and respond to the patient's therapeutic and supportive devices to ensure patient safety and comfort | | | |
| 32 | B3.5 Ensure the patient's needs are met prior to release from the technologist's care | | | |

| | Competency | YES | NO | N/A |
|---|---|---|---|---|
| **B4 Implement infection control practices** | | | | |
| 33 | B4.1 Understand transmission mode of nosocomial infections (host, agent and environment) | | | |
| 34 | B4.2 Utilize routine practices for preventing the transmission of infection in health care | | | |
| 35 | B4.3 Apply principles of asepsis | | | |
| 36 | B4.4 Apply protocols when handling and disposing contaminated and biohazard materials such as sharps and body fluids | | | |
| 37 | B4.5 Adhere to protective environment protocols with patients who have compromised immunity | | | |
| 38 | B4.6 Adhere to protocols when caring for patients with antibiotic resistant organisms | | | |
| 39 | B4.7 Adhere to transmission based precautions for airborne, droplet and contact modes of transmission | | | |
| **B5 Respond to patients hygiene needs** | | | | |
| 40 | B5.1 Assist the patient with personal care | | | |
| **C1 Apply MR safety practices with respect to MR screening** | | | | |
| 41 | C1.1 Ensure that the patient screening forms are completed | | | |
| 42 | C1.2 Demonstrate an understanding of the magnetic properties of foreign objects | | | |
| 43 | C1.3 Determine whether foreign objects in /on the patient's body constitute a contraindication to MR | | | |
| 44 | C1.4 Determine exceptions to contraindications during the screening process | | | |
| 45 | C1.5 Determine patient's pregnancy status and take appropriate action | | | |
| 46 | C1.6 Screen MR personnel and support staff | | | |
| 47 | C1.7 Assess and remove any ancillary contraindicated objects from the patient, MR personnel and Support Staff | | | |
| 48 | C1.8 Identify the safety considerations related to the presence of ferromagnetic equipment/accessories (MR compatible or MR safe) in the magnetic field | | | |
| **C2 Apply safety guidelines with respect to MR bio-effects** | | | | |
| 49 | C2.1 Provide hearing protection to the patient and attending individuals. | | | |
| 50 | C2.6 Utilize safe practice in RF coil and equipment cable placement | | | |
| **F1 Perform duties that are common to all MR Imaging Procedures** | | | | |
| 51 | F1.1 Assess documentation for compliance with legal requirements | | | |
| 52 | F1.2 Demonstrate an understanding of related disciplines in order to review data available from images and/or reports of previous studies and procedures | | | |
| 53 | F1.3 Utilize the clinical information provided to adapt the requested exam to the individual patient | | | |
| 54 | F1.4 Ascertain the reasons for the MR examination, given an adequate clinical history | | | |
| 55 | F1.5 Adapt the procedure for the patient's physical and cognitive condition | | | |
| 56 | F1.6 Monitor patient's therapeutic tubes, lines, and supportive devices | | | |
| 57 | F1.7 Utilize equipment for monitoring patient's condition during the MR procedure | | | |
| 58 | F1.8 Enter and verify patient information into the MR system | | | |
| 59 | F1.9 Activate, monitor and manage the MR acquisition | | | |
| 60 | F1.10 Maintain communication with the patient throughout the examination | | | |
| 61 | F1.12 Assess and monitor the patient's condition | | | |
| 62 | F1.13 Recognize adverse reactions | | | |
| 63 | F1.14 Respond to adverse reactions | | | |
| 64 | F1.15 Monitor vital signs | | | |
| 65 | F1.16 Verify accuracy of patient demographics on the image using respective medium | | | |
| 66 | F1.17 Perform post processing to optimize the digital image | | | |
| 67 | F1.20 Recognize and respond to the need for medical consultation before dismissal of the patient | | | |
| 68 | F1.21 Recommend additional sequences in consultation with the physician | | | |
| 69 | F1.22 Ensure the patient's needs are met prior to release from the technologist's care | | | |
| **G1 Perform Musculoskeletal Imaging Procedures** | | | | |
| 70 | G1.1 Understand pathology and anomalies related to the musculoskeletal system | | | |
| 71 | G1.2 Recognize signal characteristics consistent with pathology and anomalies related to the musculoskeletal system | | | |
| 72 | G1.3 Select the appropriate imaging parameters for the musculoskeletal imaging procedures | | | |

| | Competency | YES | NO | N/A |
|---|---|---|---|---|
| 73 | G1.4 Evaluate image quality | | | |
| 74 | G1.5 Evaluate image artifacts and take appropriate action | | | |
| 75 | G1.6 Evaluate the effects of changing imaging parameters and options on the image quality | | | |
| 76 | G1.7 Evaluate the effects of changing imaging parameters and options on the scan time | | | |
| 77 | G1.8 Evaluate the effects of changing imaging parameters and options on the anatomical coverage | | | |
| 78 | G1.9 Evaluate the effects of changing imaging parameters and options on the pathological visualization | | | |
| 79 | G1.10 Evaluate the effects of changing imaging parameters and options on the SAR reduction techniques | | | |
| 80 | G1.11 Understand the use of advanced imaging techniques | | | |
| **G2 Perform TMJ imaging procedure** | | | | |
| 81 | G2.1Understand gross anatomy, cross sectional anatomy, and physiology of the TMJ | | | |
| 82 | G2.2 Select the optimal coil to image the TMJ | | | |
| 83 | G2.3 Prepare the patient for a TMJ imaging procedure based on the requested protocol and the patient's physical and cognitive status | | | |
| 84 | G2.4 Position the patient and coil using anatomical landmark and relational anatomy | | | |
| 85 | G2.5 Landmark the TMJ to the positioning light and advance the patient to isocenter | | | |
| 86 | G2.6 Select the optimal imaging plane for the TMJ being examined | | | |
| 87 | G2.7 Determine and select the appropriate pulse sequences for optimal visualization of the TMJ | | | |
| 88 | G2.8 Consider patient related factors when modifying imaging planes and sequences to achieve optimal visualization of the TMJ | | | |
| 89 | G2.9 Optimize imaging parameters for the TMJ | | | |
| 90 | G2.10 Select the optimal imaging options for each pulse sequence for the TMJ | | | |
| 91 | G2.11 Determine the limit and extent of image coverage for the TMJ | | | |
| | **Total** | | | |

Total:

$$\frac{\text{(\# of YES)} = \quad}{91 - \text{(\# of N/A)} = \quad} = \quad \%$$

Must attain a minimum of 60 % to achieve satisfactory results

The evaluating Technologist reserves the right to fail the student regardless of the number of "No's" if there was a critical error.
Example: the exam was done perfectly but the patient had a pacemaker.

_____
Student Signature Date

_____
Evaluator's signature Date

## Module A, B, C, F, H: Clinical Competency Evaluation: Head (Internal Auditory Canal)

**Attempt ___**

Patient number _____Date of Competency _____

| | Competency | YES | NO | N/A |
|---|---|---|---|---|
| **A1 Demonstrates critical thinking** | | | | |
| 1 | A1.1 Apply critical thinking and problem solving strategies to ensure best practices | | | |
| **A2 Practice in accordance with legislation, regulations and ethical guidelines related to the profession** | | | | |
| 2 | A2.1 Practice patient care that protects the patient's legal rights | | | |
| 3 | A2.3 Perform all duties in compliance with sexual abuse prevention guidelines | | | |
| 4 | A2.4 Practice in accordance with national associations/provincial regulatory body's code of ethics | | | |
| 5 | A2.5 Practice within scope of practice in accordance regulatory body legislation requirements | | | |
| 6 | A2.6 Practice in accordance with regulatory body standards of practice | | | |
| 7 | A2.7 Practice in accordance with legislation regulations/ By- laws regulating medical radiation technologists | | | |
| **A3 Demonstrate professional behaviours** | | | | |
| 8 | A3.1 Demonstrate respect and sensitivity in both patient and professional interactions | | | |
| 9 | A3.2 Utilize stress management techniques | | | |
| 10 | A3.3 Utilize conflict management techniques | | | |
| 11 | A3.5 Exchange knowledge /skills with other members of health care teams to promote collaborative practice | | | |
| 12 | A3.8 Present a professional appearance manner | | | |
| **A7 Participate in resource management** | | | | |
| 13 | A7.1 Prioritize work flow to optimize patient outcomes | | | |
| 14 | A7.2 Monitor inventory of materials and supplies | | | |
| **B1 Provide a safe environment to minimize the risk of adverse events to the patient and to staff** | | | | |
| 15 | B1.1 Provide a safe, clean and comfortable environment | | | |
| 16 | B1.2 Transport the patient safely using equipment based on the patient's physical and cognitive needs and resources available | | | |
| 17 | B1.3 Transfer the patient safely using equipment and techniques based on the patient's physical and cognitive needs | | | |
| 18 | B1.4 Employ proper body mechanics to prevent harm to self and patient | | | |
| 19 | B1.5 Implement immobilization based on age , physical and cognitive status of the patient and type of procedure | | | |
| 20 | B1.6 Adjust the patient's position to prevent harm and promote comfort | | | |
| 21 | B1.7 Verify patients identity following standardized protocol | | | |
| 22 | B1.8 Assess documentation for compliance with legal requirements | | | |
| 23 | B1.9 Complete documentation for compliance with regulations | | | |
| **B 2 Interact within the healthcare environment** | | | | |
| 24 | B2.1 Establish patient rapport | | | |
| 25 | B2.2 Use various forms of communication to provide relevant, accurate, and complete information | | | |
| 26 | B2.3 Exchange information regarding details of the procedure with patients and their support persons, to enable them to make informed decisions | | | |
| 27 | B2.4 Assess and Respond to cultural, ethnic, linguistic, religious and socioeconomic variable affecting communication | | | |
| **B3 Perform patient assessments and medical interventions within scope of practice in accordance with provincial regulatory body's legislation requirements.** | | | | |
| 28 | B3.1 Perform patient assessment | | | |
| 29 | B3.2 Assess, monitor and respond to various levels of patient status | | | |
| 30 | B3.3 Perform /participate in medical interventions | | | |
| 31 | B3.4 Assess, monitor and respond to the patient's therapeutic and supportive devices to ensure patient safety and comfort | | | |
| 32 | B3.5 Ensure the patient's needs are met prior to release from the technologist's care | | | |

| | Competency | YES | NO | N/A |
|---|---|---|---|---|
| **B4 Implement infection control practices** | | | | |
| 33 | B4.1 Understand transmission mode of nosocomial infections (host, agent and environment) | | | |
| 34 | B4.2 Utilize routine practices for preventing the transmission of infection in health care | | | |
| 35 | B4.3 Apply principles of asepsis | | | |
| 36 | B4.4 Apply protocols when handling and disposing contaminated and biohazard materials such as sharps and body fluids | | | |
| 37 | B4.5 Adhere to protective environment protocols with patients who have compromised immunity | | | |
| 38 | B4.6 Adhere to protocols when caring for patients with antibiotic resistant organisms | | | |
| 39 | B4.7 Adhere to transmission based precautions for airborne, droplet and contact modes of transmission | | | |
| **B5 Respond to patients hygiene needs** | | | | |
| 40 | B5.1 Assist the patient with personal care | | | |
| **C1 Apply MR safety practices with respect to MR screening** | | | | |
| 41 | C1.1 Ensure that the patient screening forms are completed | | | |
| 42 | C1.2 Demonstrate an understanding of the magnetic properties of foreign objects | | | |
| 43 | C1.3 Determine whether foreign objects in /on the patient's body constitute a contraindication to MR | | | |
| 44 | C1.4 Determine exceptions to contraindications during the screening process | | | |
| 45 | C1.5 Determine patient's pregnancy status and take appropriate action | | | |
| 46 | C1.6 Screen MR personnel and support staff | | | |
| 47 | C1.7 Assess and remove any ancillary contraindicated objects from the patient, MR personnel and Support Staff | | | |
| 48 | C1.8 Identify the safety considerations related to the presence of ferromagnetic equipment/accessories (MR compatible or MR safe) in the magnetic field | | | |
| **C2 Apply safety guidelines with respect to MR bio-effects** | | | | |
| 49 | C2.1 Provide hearing protection to the patient and attending individuals. | | | |
| 50 | C2.6 Utilize safe practice in RF coil and equipment cable placement | | | |
| **F1 Perform duties that are common to all MR Imaging Procedures** | | | | |
| 51 | F1.1 Assess documentation for compliance with legal requirements | | | |
| 52 | F 1.2 Demonstrate an understanding of related disciplines in order to review data available from images and/or reports of previous studies and procedures | | | |
| 53 | F1.3 Utilize the clinical information provided to adapt the requested exam to the individual patient | | | |
| 54 | F1.4 Ascertain the reasons for the MR examination, given an adequate clinical history | | | |
| 55 | F1.5 Adapt the procedure for the patient's physical and cognitive condition | | | |
| 56 | F1.6 Monitor patient's therapeutic tubes, lines, and supportive devices | | | |
| 57 | F1.7 Utilize equipment for monitoring patient's condition during the MR procedure | | | |
| 58 | F1.8 Enter and verify patient information into the MR system | | | |
| 59 | F1.9 Activate, monitor and manage the MR acquisition | | | |
| 60 | F1.10 Maintain communication with the patient throughout the examination | | | |
| 61 | F1.12 Assess and monitor the patient's condition | | | |
| 62 | F1.13 Recognize adverse reactions | | | |
| 63 | F1.14 Respond to adverse reactions | | | |
| 64 | F1.15 Monitor vital signs | | | |
| 65 | F1.16 Verify accuracy of patient demographics on the image using respective medium | | | |
| 66 | F1.17 Perform post processing to optimize the digital image | | | |
| 67 | F1.20 Recognize and respond to the need for medical consultation before dismissal of the patient | | | |
| 68 | F1.21 Recommend additional sequences in consultation with the physician | | | |
| 69 | F1.22 Ensure the patient's needs are met prior to release from the technologist's care | | | |
| **H1 Perform a Head and Neck Imaging Procedures** | | | | |
| 70 | H1.1 Understand pathology and anomalies related to the head and neck | | | |
| 71 | H1.2 Recognize signal characteristics consistent with pathology and anomalies related to the head and neck | | | |
| 72 | H1.3 Select the appropriate imaging parameters for the head and neck imaging procedures | | | |

| | Competency | YES | NO | N/A |
|---|---|---|---|---|
| 73 | H1.4 Evaluate image quality | | | |
| 74 | H1.5 Evaluate image artifacts and take appropriate action | | | |
| 75 | H1.6 Evaluate the effects of changing imaging parameters and options on the image quality | | | |
| 76 | H1.7 Evaluate the effects of changing imaging parameters and options on the scan time | | | |
| 77 | H1.8 Evaluate the effects of changing imaging parameters and options on the anatomical coverage | | | |
| 78 | H1.9 Evaluate the effects of changing imaging parameters and options on the pathological visualization | | | |
| 79 | H1.10 Evaluate the effects of changing imaging parameters and options on the SAR reduction techniques | | | |
| 80 | H1.11 Understand the use of advanced imaging techniques | | | |
| **H9 Perform imaging procedure of Internal Auditory Canal** | | | | |
| 81 | H9.1Understand the gross anatomy, cross sectional anatomy and physiology internal auditory canal | | | |
| 82 | H9.2 Select the optimal coil to image the internal auditory canal | | | |
| 83 | H9.3 Prepare the patient for at the internal auditory canal imaging procedure based on the requested protocol and the patient's physical and cognitive status | | | |
| 84 | H9.4 Position the patient and coil using anatomical landmark and relational anatomy | | | |
| 85 | H9.5 Landmark the brain to the positioning light and advance the patient to isocenter | | | |
| 86 | H9.6 Select the optimal imaging plane for the internal auditory canal | | | |
| 87 | H9.7 Determine and select the appropriate pulse sequences for optimal visualization of the internal auditory canal | | | |
| 88 | H9.8 Consider patient related factors when modifying imaging planes and sequences to achieve optimal visualization of the internal auditory canal | | | |
| 89 | H9.9 Optimize imaging parameters for the internal auditory canal | | | |
| 90 | H9.10 Select the optimal imaging options for each pulse sequence for the internal auditory canal | | | |
| 91 | H9.11 Determine the limit and extent of image coverage for the internal auditory canal | | | |
| | **Total** | | | |

Total:

$$\frac{\text{(\# of YES)}}{91 - \text{(\# of N/A)}} = \frac{\quad}{\quad} = \quad \%$$

Must attain a minimum of 60 % to achieve satisfactory results

The evaluating Technologist reserves the right to fail the student regardless of the number of "No's" if there was a critical error.
Example: the exam was done perfectly but the patient had a pacemaker.

_____
Student Signature Date

_____
Evaluator's signature Date

## Module A, B, C, F, H: Clinical Competency Evaluation: Orbits

**Attempt** ____

Patient number _____Date of Competency _____

| | Competency | YES | NO | N/A |
|---|---|---|---|---|
| **A1 Demonstrates critical thinking** | | | | |
| 1 | A1.1 Apply critical thinking and problem solving strategies to ensure best practices | | | |
| **A2 Practice in accordance with legislation, regulations and ethical guidelines related to the profession** | | | | |
| 2 | A2.1 Practice patient care that protects the patient's legal rights | | | |
| 3 | A2.3 Perform all duties in compliance with sexual abuse prevention guidelines | | | |
| 4 | A2.4 Practice in accordance with national associations/provincial regulatory body's code of ethics | | | |
| 5 | A2.5 Practice within scope of practice in accordance regulatory body legislation requirements | | | |
| 6 | A2.6 Practice in accordance with regulatory body standards of practice | | | |
| 7 | A2.7 Practice in accordance with legislation regulations/ By- laws regulating medical radiation technologists | | | |
| **A3 Demonstrate professional behaviours** | | | | |
| 8 | A3.1 Demonstrate respect and sensitivity in both patient and professional interactions | | | |
| 9 | A3.2 Utilize stress management techniques | | | |
| 10 | A3.3 Utilize conflict management techniques | | | |
| 11 | A3.5 Exchange knowledge /skills with other members of health care teams to promote collaborative practice | | | |
| 12 | A3.8 Present a professional appearance manner | | | |
| **A7 Participate in resource management** | | | | |
| 13 | A7.1 Prioritize work flow to optimize patient outcomes | | | |
| 14 | A7.2 Monitory inventory of materials and supplies | | | |
| **B1 Provide a safe environment to minimize the risk of adverse events to the patient and to staff** | | | | |
| 15 | B1.1 Provide a safe, clean and comfortable environment | | | |
| 16 | B1.2 Transport the patient safely using equipment based on the patients physical and cognitive needs and resources available | | | |
| 17 | B1.3 Transfer the patient safely using equipment and techniques based on the patients physical and cognitive needs | | | |
| 18 | B1.4 Employ proper body mechanics to prevent harm to self and patient | | | |
| 19 | B1.5 Implement immobilization based on age , physical and cognitive status of the patient and type of procedure | | | |
| 20 | B1.6 Adjust the patients position to prevent harm and promote comfort | | | |
| 21 | B1.7 Verify patients identity following standardized protocol | | | |
| 22 | B1.8 Assess documentation for compliance with legal requirements | | | |
| 23 | B1.9 Complete documentation for compliance with regulations | | | |
| **B 2 Interact within the healthcare environment** | | | | |
| 24 | B2.1 Establish patient rapport | | | |
| 25 | B2.2 Use various forms of communication to provide relevant, accurate, and complete information | | | |
| 26 | B2.3 Exchange information regarding details of the procedure with patients and their support persons, to enable them to make informed decisions | | | |
| 27 | B2.4 Assess and Respond to cultural, ethnic, linguistic, religious and socioeconomic variable affecting communication | | | |
| **B3 Perform patient assessments and medical interventions within scope of practice in accordance with provincial regulatory body's legislation requirements.** | | | | |
| 28 | B3.1 Perform patient assessment | | | |
| 29 | B3.2 Assess, monitor and respond to various levels of patient status | | | |
| 30 | B3.3 Perform /participate in medical interventions | | | |
| 31 | B3.4 Assess, monitor and respond to the patients therapeutic and supportive devices to ensure patient safety and comfort | | | |
| 32 | B3.5 Ensure the patient's needs are met prior to release from the technologist's care | | | |
| **B4 Implement infection control practices** | | | | |

| | Competency | YES | NO | N/A |
|---|---|---|---|---|
| 33 | B4.1 Understand transmission mode of nosocomial infections (host, agent and environment) | | | |
| 34 | B4.2 Utilize routine practices for preventing the transmission of infection in health care | | | |
| 35 | B4.3 Apply principles of asepsis | | | |
| 36 | B4.4 Apply protocols when handling and disposing contaminated and biohazard materials such as sharps and body fluids | | | |
| 37 | B4.5 Adhere to protective environment protocols with patients who have compromised immunity | | | |
| 38 | B4.6 Adhere to protocols when caring for patients with antibiotic resistant organisms | | | |
| 39 | B4.7 Adhere to transmission based precautions for airborne, droplet and contact modes of transmission | | | |
| **B5 Respond to patients hygiene needs** | | | | |
| 40 | B5.1 Assist the patient with personal care | | | |
| **C1 Apply MR safety practices with respect to MR screening** | | | | |
| 41 | C1.1 Ensure that the patient screening forms are completed | | | |
| 42 | C1.2 Demonstrate an understanding of the magnetic properties of foreign objects | | | |
| 43 | C1.3 Determine whether foreign objects in /on the patient's body constitute a contraindication to MR | | | |
| 44 | C1.4 Determine exceptions to contraindications during the screening process | | | |
| 45 | C1.5 Determine patient's pregnancy status and take appropriate action | | | |
| 46 | C1.6 Screen MR personnel and support staff | | | |
| 47 | C1.7 Assess and remove any ancillary contraindicated objects from the patient, MR personnel and Support Staff | | | |
| 48 | C1.8 Identify the safety considerations related to the presence of ferromagnetic equipment/accessories (MR compatible or MR safe) in the magnetic field | | | |
| **C2 Apply safety guidelines with respect to MR bio-effects** | | | | |
| 49 | C2.1 Provide hearing protection to the patient and attending individuals. | | | |
| 50 | C2.6 Utilize safe practice in RF coil and equipment cable placement | | | |
| **F1 Perform duties that are common to all MR Imaging Procedures** | | | | |
| 51 | F1.1 Assess documentation for compliance with legal requirements | | | |
| 52 | F1.2 Demonstrate an understanding of related disciplines in order to review data available from images and/or reports of previous studies and procedures | | | |
| 53 | F1.3 Utilize the clinical information provided to adapt the requested exam to the individual patient | | | |
| 54 | F1.4 Ascertain the reasons for the MR examination, given an adequate clinical history | | | |
| 55 | F1.5 Adapt the procedure for the patients physical and cognitive condition | | | |
| 56 | F1.6 Monitor patients therapeutic tubes, lines, and supportive devices | | | |
| 57 | F1.7 Utilize equipment for monitoring patient's condition during the MR procedure | | | |
| 58 | F1.8 Enter and verify patient information into the MR system | | | |
| 59 | F1.9 Activate, monitor and manage the MR acquisition | | | |
| 60 | F1.10 Maintain communication with the patient throughout the examination | | | |
| 61 | F1.12 Assess and monitor the patient's condition | | | |
| 62 | F1.13 Recognize adverse reactions | | | |
| 63 | F1.14 Respond to adverse reactions | | | |
| 64 | F1.15 Monitor vital signs | | | |
| 65 | F1.16 Verify accuracy of patient demographics on the image using respective medium | | | |
| 66 | F1.17 Perform post processing to optimize the digital image | | | |
| 67 | F1.20 Recognize and respond to the need for medical consultation before dismissal of the patient | | | |
| 68 | F1.21 Recommend additional sequences in consultation with the physician | | | |
| 69 | F1.22 Ensure the patient's needs are met prior to release from the technologist's care | | | |
| **H1 Perform a Head and Neck Imaging Procedures** | | | | |
| 70 | H1.1 Understand pathology and anomalies related to brain | | | |
| 71 | H1.2 Recognize signal characteristics consistent with pathology and anomalies related to the head and neck | | | |
| 72 | H1.3 Select the appropriate imaging parameters for head and neck imaging procedures | | | |
| 73 | H1.4 Evaluate image quality | | | |

| | Competency | YES | NO | N/A |
|---|---|---|---|---|
| 74 | H1.5 Evaluate image artifacts and take appropriate action | | | |
| 75 | H1.6 Evaluate the effects of changing imaging parameters and options on the image quality | | | |
| 76 | H1.7 Evaluate the effects of changing imaging parameters and options on the scan time | | | |
| 77 | H1.8 Evaluate the effects of changing imaging parameters and options on the anatomical coverage | | | |
| 78 | H1.9 Evaluate the effects of changing imaging parameters and options on the pathological visualization | | | |
| 79 | H1.10 Evaluate the effects of changing imaging parameters and options on the SAR reduction techniques | | | |
| 80 | H1.11 Understand the use of advanced imaging techniques | | | |
| **H6 Perform Orbits imaging procedure** | | | | |
| 81 | H6.1 Understand the gross anatomy , cross sectional anatomy and physiology of the orbits | | | |
| 82 | H6.2 Select the optimal coil to image the orbits | | | |
| 83 | H6.3 Prepare the patient for an orbits imaging procedure based on the requested protocol and the patients physical and cognitive status | | | |
| 84 | H6.4 Position the patient and coil using anatomical landmark and relational anatomy | | | |
| 85 | H6.5 Landmark the orbits to the positioning light and advance the patient to isocenter | | | |
| 86 | H6.6 Select the optimal imaging plane for the orbits | | | |
| 87 | H6.7 Determine and select the appropriate pulse sequences for optimal visualization of the orbits | | | |
| 88 | H2.8 Consider patient related factors when modifying imaging planes and sequences to achieve optimal visualization of the orbits | | | |
| 89 | H2.9 Optimize imaging parameters for the orbits | | | |
| 90 | H6.10 Select the optimal imaging options for each pulse sequence for the orbits | | | |
| 91 | H2.11 Determine the limit and extent of image coverage for the orbits | | | |
| | **Total** | | | |

Total:

$$\frac{\text{(\# of YES)}}{91 - \text{(\# of N/A)}} = \frac{\quad}{\quad} = \quad \%$$

Must attain a minimum of 60 % to achieve satisfactory results

The evaluating Technologist reserves the right to fail the student regardless of the number of “No’s” if there was a critical error.
Example: the exam was done perfectly but the patient had a pacemaker.

_____
Student Signature Date

_____
Evaluator’s signature Date

## Module A, B, C, F, H: Clinical Competency Evaluation: Soft Tissue neck Attempt ____

Patient number _____Date of Competency _____

| | Competency | YES | NO | N/A |
|---|---|---|---|---|
| **A1 Demonstrates critical thinking** | | | | |
| 1 | A1.1 Apply critical thinking and problem solving strategies to ensure best practices | | | |
| **A2 Practice in accordance with legislation, regulations and ethical guidelines related to the profession** | | | | |
| 2 | A2.1 Practice patient care that protects the patient's legal rights | | | |
| 3 | A2.3 Perform all duties in compliance with sexual abuse prevention guidelines | | | |
| 4 | A2.4 Practice in accordance with national associations/provincial regulatory body's code of ethics | | | |
| 5 | A2.5 Practice within scope of practice in accordance regulatory body legislation requirements | | | |
| 6 | A2.6 Practice in accordance with regulatory body standards of practice | | | |
| 7 | A2.7 Practice in accordance with legislation regulations/ By- laws regulating medical radiation technologists | | | |
| **A3 Demonstrate professional behaviours** | | | | |
| 8 | A3.1 Demonstrate respect and sensitivity in both patient and professional interactions | | | |
| 9 | A3.2 Utilize stress management techniques | | | |
| 10 | A3.3 Utilize conflict management techniques | | | |
| 11 | A3.5 Exchange knowledge /skills with other members of health care teams to promote collaborative practice | | | |
| 12 | A3.8 Present a professional appearance manner | | | |
| **A7 Participate in resource management** | | | | |
| 13 | A7.1 Prioritize work flow to optimize patient outcomes | | | |
| 14 | A7.2 Monitory inventory of materials and supplies | | | |
| **B1 Provide a safe environment to minimize the risk of adverse events to the patient and to staff** | | | | |
| 15 | B1.1 Provide a safe, clean and comfortable environment | | | |
| 16 | B1.2 Transport the patient safely using equipment based on the patients physical and cognitive needs and resources available | | | |
| 17 | B1.3 Transfer the patient safely using equipment and techniques based on the patients physical and cognitive needs | | | |
| 18 | B1.4 Employ proper body mechanics to prevent harm to self and patient | | | |
| 19 | B1.5 Implement immobilization based on age , physical and cognitive status of the patient and type of procedure | | | |
| 20 | B1.6 Adjust the patients position to prevent harm and promote comfort | | | |
| 21 | B1.7 Verify patients identity following standardized protocol | | | |
| 22 | B1.8 Assess documentation for compliance with legal requirements | | | |
| 23 | B1.9 Complete documentation for compliance with regulations | | | |
| **B 2 Interact within the healthcare environment** | | | | |
| 24 | B2.1 Establish patient rapport | | | |
| 25 | B2.2 Use various forms of communication to provide relevant, accurate, and complete information | | | |
| 26 | B2.3 Exchange information regarding details of the procedure with patients and their support persons, to enable them to make informed decisions | | | |
| 27 | B2.4 Assess and Respond to cultural, ethnic, linguistic, religious and socioeconomic variable affecting communication | | | |
| **B3 Perform patient assessments and medical interventions within scope of practice in accordance with provincial regulatory body's legislation requirements.** | | | | |
| 28 | B3.1 Perform patient assessment | | | |
| 29 | B3.2 Assess, monitor and respond to various levels of patient status | | | |
| 30 | B3.3 Perform /participate in medical interventions | | | |
| 31 | B3.4 Assess, monitor and respond to the patients therapeutic and supportive devices to ensure patient safety and comfort | | | |
| 32 | B3.5 Ensure the patient's needs are met prior to release from the technologist's care | | | |
| **B4 Implement infection control practices** | | | | |

| | Competency | YES | NO | N/A |
|---|---|---|---|---|
| 33 | B4.1 Understand transmission mode of nosocomial infections (host, agent and environment) | | | |
| 34 | B4.2 Utilize routine practices for preventing the transmission of infection in health care | | | |
| 35 | B4.3 Apply principles of asepsis | | | |
| 36 | B4.4 Apply protocols when handling and disposing contaminated and biohazard materials such as sharps and body fluids | | | |
| 37 | B4.5 Adhere to protective environment protocols with patients who have compromised immunity | | | |
| 38 | B4.6 Adhere to protocols when caring for patients with antibiotic resistant organisms | | | |
| 39 | B4.7 Adhere to transmission based precautions for airborne, droplet and contact modes of transmission | | | |
| **B5 Respond to patients hygiene needs** | | | | |
| 40 | B5.1 Assist the patient with personal care | | | |
| **C1 Apply MR safety practices with respect to MR screening** | | | | |
| 41 | C1.1 Ensure that the patient screening forms are completed | | | |
| 42 | C1.2 Demonstrate an understanding of the magnetic properties of foreign objects | | | |
| 43 | C1.3 Determine whether foreign objects in /on the patient's body constitute a contraindication to MR | | | |
| 44 | C1.4 Determine exceptions to contraindications during the screening process | | | |
| 45 | C1.5 Determine patient's pregnancy status and take appropriate action | | | |
| 46 | C1.6 Screen MR personnel and support staff | | | |
| 47 | C1.7 Assess and remove any ancillary contraindicated objects from the patient, MR personnel and Support Staff | | | |
| 48 | C1.8 Identify the safety considerations related to the presence of ferromagnetic equipment/accessories (MR compatible or MR safe) in the magnetic field | | | |
| **C2 Apply safety guidelines with respect to MR bio-effects** | | | | |
| 49 | C2.1 Provide hearing protection to the patient and attending individuals. | | | |
| 50 | C2.6 Utilize safe practice in RF coil and equipment cable placement | | | |
| **F1 Perform duties that are common to all MR Imaging Procedures** | | | | |
| 51 | F1.1 Assess documentation for compliance with legal requirements | | | |
| 52 | F1.2 Demonstrate an understanding of related disciplines in order to review data available from images and/or reports of previous studies and procedures | | | |
| 53 | F1.3 Utilize the clinical information provided to adapt the requested exam to the individual patient | | | |
| 54 | F1.4 Ascertain the reasons for the MR examination, given an adequate clinical history | | | |
| 55 | F1.5 Adapt the procedure for the patients physical and cognitive condition | | | |
| 56 | F1.6 Monitor patients therapeutic tubes, lines, and supportive devices | | | |
| 57 | F1.7 Utilize equipment for monitoring patient's condition during the MR procedure | | | |
| 58 | F1.8 Enter and verify patient information into the MR system | | | |
| 59 | F1.9 Activate, monitor and manage the MR acquisition | | | |
| 60 | F1.10 Maintain communication with the patient throughout the examination | | | |
| 61 | F1.12 Assess and monitor the patient's condition | | | |
| 62 | F1.13 Recognize adverse reactions | | | |
| 63 | F1.14 Respond to adverse reactions | | | |
| 64 | F1.15 Monitor vital signs | | | |
| 65 | F1.16 Verify accuracy of patient demographics on the image using respective medium | | | |
| 66 | F1.17 Perform post processing to optimize the digital image | | | |
| 67 | F1.20 Recognize and respond to the need for medical consultation before dismissal of the patient | | | |
| 68 | F1.21 Recommend additional sequences in consultation with the physician | | | |
| 69 | F1.22 Ensure the patient's needs are met prior to release from the technologist's care | | | |
| **H1 Perform a Head and Neck Imaging Procedures** | | | | |
| 70 | H1.1 Understand pathology and anomalies related to brain | | | |
| 71 | H1.2 Recognize signal characteristics consistent with pathology and anomalies related to the head and neck | | | |
| 72 | H1.3 Select the appropriate imaging parameters for head and neck imaging procedures | | | |
| 73 | H1.4 Evaluate image quality | | | |

| | Competency | YES | NO | N/A |
|---|---|---|---|---|
| 74 | H1.5 Evaluate image artifacts and take appropriate action | | | |
| 75 | H1.6 Evaluate the effects of changing imaging parameters and options on the image quality | | | |
| 76 | H1.7 Evaluate the effects of changing imaging parameters and options on the scan time | | | |
| 77 | H1.8 Evaluate the effects of changing imaging parameters and options on the anatomical coverage | | | |
| 78 | H1.9 Evaluate the effects of changing imaging parameters and options on the pathological visualization | | | |
| 79 | H1.10 Evaluate the effects of changing imaging parameters and options on the SAR reduction techniques | | | |
| 80 | H1.11 Understand the use of advanced imaging techniques | | | |
| **H6 Perform Soft Tissue Neck imaging procedure** | | | | |
| 81 | H6.1 Understand the gross anatomy , cross sectional anatomy and physiology of the soft tissue neck | | | |
| 82 | H6.2 Select the optimal coil to image the soft tissue neck | | | |
| 83 | H6.3 Prepare the patient for an orbits imaging procedure based on the requested protocol and the patients physical and cognitive status | | | |
| 84 | H6.4 Position the patient and coil using anatomical landmark and relational anatomy | | | |
| 85 | H6.5 Landmark the orbits to the positioning light and advance the patient to isocenter | | | |
| 86 | H6.6 Select the optimal imaging plane for the soft tissue neck | | | |
| 87 | H6.7 Determine and select the appropriate pulse sequences for optimal visualization of the soft tissue neck | | | |
| 88 | H2.8 Consider patient related factors when modifying imaging planes and sequences to achieve optimal visualization of the soft tissue neck | | | |
| 89 | H2.9 Optimize imaging parameters for the soft tissue neck | | | |
| 90 | H6.10 Select the optimal imaging options for each pulse sequence for the soft tissue neck | | | |
| 91 | H2.11 Determine the limit and extent of image coverage for the soft tissue neck | | | |
| | **Total** | | | |

Total:

$$\frac{\text{(\# of YES)}}{91 - \text{(\# of N/A)}} = \frac{\quad}{\quad} = \quad \%$$

Must attain a minimum of 60 % to achieve satisfactory results

The evaluating Technologist reserves the right to fail the student regardless of the number of “No’s” if there was a critical error.
Example: the exam was done perfectly but the patient had a pacemaker.

_____
Student Signature Date

_____
Evaluator’s signature Date

# Competency Module I: Spine

FANSHAWE
Faculty of Health Sciences
& Human Services

## Modules A, B, C, F, I: Clinical Competency Evaluation: Cervical Spine Routine

**Attempt _____**

Number of patient _____Date of Competency _____

| | Competency | YES | NO | N/A |
|---|---|---|---|---|
| **A1 Demonstrates critical thinking** | | | | |
| 1 | A1.1 Apply critical thinking and problem solving strategies to ensure best practices | | | |
| **A2 Practice in accordance with legislation, regulations and ethical guidelines related to the profession** | | | | |
| 2 | A2.1 Practice patient care that protects the patient's legal rights | | | |
| 3 | A2.3 Perform all duties in compliance with sexual abuse prevention guidelines | | | |
| 4 | A2.4 Practice in accordance with national associations/provincial regulatory body's code of ethics | | | |
| 5 | A2.5 Practice within scope of practice in accordance regulatory body legislation requirements | | | |
| 6 | A2.6 Practice in accordance with regulatory body standards of practice | | | |
| 7 | A2.7 Practice in accordance with legislation regulations/ By- laws regulating medical radiation technologists | | | |
| **A3 Demonstrate professional behaviours** | | | | |
| 8 | A3.1 Demonstrate respect and sensitivity in both patient and professional interactions | | | |
| 9 | A3.2 Utilize stress management techniques | | | |
| 10 | A3.3 Utilize conflict management techniques | | | |
| 11 | A3.5 Exchange knowledge /skills with other members of health care teams to promote collaborative practice | | | |
| 12 | A3.8 Present a professional appearance manner | | | |
| **A7 Participate in resource management** | | | | |
| 13 | A7.1 Prioritize workflow to optimize patient care | | | |
| 14 | A7.2 Monitor inventory of materials and supplies | | | |
| **B1 Provide a safe environment to minimize the risk of adverse events to the patient and to staff** | | | | |
| 15 | B1.1 Provide a safe, clean and comfortable environment | | | |
| 16 | B1.2 Transport the patient safely using equipment based on the patients physical and cognitive needs and resources available | | | |
| 17 | B1.3 Transfer the patient safely using equipment and techniques based on the patients physical and cognitive needs | | | |
| 18 | B1.4 Employ proper body mechanics to prevent harm to self and patient | | | |
| 19 | B1.5 Implement immobilization based on age , physical and cognitive status of the patient and type of procedure | | | |
| 20 | B1.6 Adjust the patients position to prevent harm and promote comfort | | | |
| 21 | B1.7 Verify patients identity following standardized protocol | | | |
| 22 | B1.8 Assess documentation for compliance with legal requirements | | | |
| 23 | B1.9 Complete documentation for compliance with regulations | | | |
| **B 2 Interact within the healthcare environment** | | | | |
| 24 | B2.1 Establish patient rapport | | | |
| 25 | B2.2 Use various forms of communication to provide relevant, accurate, and complete information | | | |
| 26 | B2.3 Exchange information regarding details of the procedure with patients and their support persons, to enable them to make informed decisions | | | |
| 27 | B2.4 Assess and Respond to cultural, ethnic, linguistic, religious and socioeconomic variable affecting communication | | | |
| **B3 Perform patient assessments and medical interventions within scope of practice in accordance with provincial regulatory body's legislation requirements.** | | | | |
| 28 | B3.1 Perform patient assessment | | | |
| 29 | B3.2 Assess, monitor and respond to various levels of patient status | | | |
| 30 | B3.3 Perform /participate in medical interventions | | | |
| 31 | B3.4 Assess, monitor and respond to the patients therapeutic and supportive devices to ensure patient safety and comfort | | | |
| 32 | B3.5 Ensure the patient's needs are met prior to release from the technologist's care | | | |

| | Competency | YES | NO | N/A |
|---|---|---|---|---|
| | **B4 Implement infection control practices** | | | |
| 33 | B4.1 Understand transmission mode of nosocomial infections (host, agent and environment) | | | |
| 34 | B4.2 Utilize routine practices for preventing the transmission of infection in health care | | | |
| 35 | B4.3 Apply principles of asepsis | | | |
| 36 | B4.4 Apply protocols when handling and disposing contaminated and biohazard materials such as sharps and body fluids | | | |
| 37 | B4.5 Adhere to protective environment protocols with patients who have compromised immunity | | | |
| 38 | B4.6 Adhere to protocols when caring for patients with antibiotic resistant organisms | | | |
| 39 | B4.7 Adhere to transmission based precautions for airborne, droplet and contact modes of transmission | | | |
| **B5 Respond to patients hygiene needs** | | | | |
| 40 | B5.1 Assist the patient with personal care | | | |
| **C1 Apply MR safety practices with respect to MR screening** | | | | |
| 41 | C1.1 Ensure that the patient screening forms are completed | | | |
| 42 | C1.2 Demonstrate an understanding of the magnetic properties of foreign objects | | | |
| 43 | C1.3 Determine whether foreign objects in /on the patient's body constitute a contraindication to MR | | | |
| 44 | C1.4 Determine exceptions to contraindications during the screening process | | | |
| 45 | C1.5 Determine patient's pregnancy status and take appropriate action | | | |
| 46 | C1.6 Screen MR personnel and support staff | | | |
| 47 | C1.7 Assess and remove any ancillary contraindicated objects from the patient, MR personnel and Support Staff | | | |
| 48 | C1.8 Identify the safety considerations related to the presence of ferromagnetic equipment/accessories (MR compatible or MR safe) in the magnetic field | | | |
| **C2 Apply safety guidelines with respect to MR bio-effects** | | | | |
| 49 | C2.1 Provide hearing protection to the patient and attending individuals. | | | |
| 50 | C2.6 Utilize safe practice in RF coil and equipment cable placement | | | |
| **F1 Perform duties that are common to all MR Imaging Procedures** | | | | |
| 51 | F1.1 Assess documentation for compliance with legal requirements | | | |
| 52 | F 1.2 Demonstrate an understanding of related disciplines in order to review data available from images and/or reports of previous studies and procedures | | | |
| 53 | F1.3 Utilize the clinical information provided to adapt the requested exam to the individual patient | | | |
| 54 | F1.4 Ascertain the reasons for the MR examination, given an adequate clinical history | | | |
| 55 | F1.5 Adapt the procedure for the patients physical and cognitive condition | | | |
| 56 | F1.6 Monitor patients therapeutic tubes, lines, and supportive devices | | | |
| 57 | F1.7 Utilize equipment for monitoring patient's condition during the MR procedure | | | |
| 58 | F1.8 Enter and verify patient information into the MR system | | | |
| 59 | F1.9 Activate, monitor and manage the MR acquisition | | | |
| 60 | F1.10 Maintain communication with the patient throughout the examination | | | |
| 61 | F1.12 Assess and monitor the patient's condition | | | |
| 62 | F1.13 Recognize adverse reactions | | | |
| 63 | F1.14 Respond to adverse reactions | | | |
| 64 | F1.15 Monitor vital signs | | | |
| 65 | F1.16 Verify accuracy of patient demographics on the image using respective medium | | | |
| 66 | F1.17 Perform post processing to optimize the digital image | | | |
| 67 | F1.20 Recognize and respond to the need for medical consultation before dismissal of the patient | | | |
| 68 | F1.21 Recommend additional sequences in consultation with the physician | | | |
| 69 | F1.22 Ensure the patient's needs are met prior to release from the technologist's care | | | |
| **I 1 Perform Spinal Imaging Procedures** | | | | |
| 70 | I 1.1Understand pathology and anomalies related to the spine | | | |
| 71 | I1.2 Recognize signal characteristics consistent with pathology and anomalies related to the spine | | | |
| 72 | I1.3 Select the appropriate imaging parameters for the spine imaging procedures | | | |
| 73 | I1.4 Evaluate image quality | | | |

| | Competency | YES | NO | N/A |
|---|---|---|---|---|
| 74 | I1.5 Evaluate image artifacts and take appropriate action | | | |
| 75 | I1.6 Evaluate the effects of changing imaging parameters and options on the image quality | | | |
| 76 | I1.7 Evaluate the effects of changing imaging parameters and options on the scan time | | | |
| 77 | I1.8 Evaluate the effects of changing imaging parameters and options on the anatomical coverage | | | |
| 78 | I1.9 Evaluate the effects of changing imaging parameters and options on the pathological visualization | | | |
| 79 | I1.10 Evaluate the effects of changing imaging parameters and options on the SAR reduction techniques | | | |
| 80 | I1.11 Understand the use of advanced imaging techniques | | | |
| **I2 Perform cervical spine imaging procedure** | | | | |
| 81 | I 2.1Understand gross anatomy, cross sectional anatomy and physiology of the cervical spine | | | |
| 82 | I 2.2 Select the optimal coil to image the cervical spine | | | |
| 83 | I 2.3 Prepare the patient for a cervical spine imaging procedure based on the requested protocol and the patients physical and cognitive status | | | |
| 84 | I 2.4 Position the patient and coil using anatomical landmark and relational anatomy | | | |
| 85 | I 2.5 Landmark the cervical spine to the positioning light and advance the patient to isocenter | | | |
| 86 | I 2.6 Select the optimal imaging plane for the cervical spine being examined | | | |
| 87 | I 2.7 Determine and select the appropriate pulse sequences for optimal visualization of the cervical spine | | | |
| 88 | I 2.8 Consider patient related factors when modifying imaging planes and sequences to achieve optimal visualization of the cervical spine | | | |
| 89 | I 2.9 Optimize imaging parameters for the cervical spine | | | |
| 90 | I 2.10 Select the optimal imaging options for each pulse sequence for the cervical spine | | | |
| 91 | I 2.11 Determine the limit and extent of image coverage for the cervical spine | | | |
| | **Total** | | | |

Total:

$$\frac{\text{(\# of YES)}}{91 - \text{(\# of N/A)}} = \frac{\quad}{\quad} = \quad \%$$

Must attain a minimum of 60 % to achieve satisfactory results

The evaluating Technologist reserves the right to fail the student regardless of the number of “No’s” if there was a critical error.
Example: the exam was done perfectly but the patient had a pacemaker.

_____
Student Signature Date

_____
Evaluator’s signature Date

## Modules A, B, C, F, I: Clinical Competency Evaluation: Spine with contrast

**Attempt _____**

Patient number _____Date of Competency _____

| | Competency | YES | NO | N/A |
|---|---|---|---|---|
| **A1 Demonstrates critical thinking** | | | | |
| 1 | A1.1 Apply critical thinking and problem solving strategies to ensure best practices | | | |
| **A2 Practice in accordance with legislation, regulations and ethical guidelines related to the profession** | | | | |
| 2 | A2.1 Practice patient care that protects the patient's legal rights | | | |
| 3 | A2.3 Perform all duties in compliance with sexual abuse prevention guidelines | | | |
| 4 | A2.4 Practice in accordance with national associations/provincial regulatory body's code of ethics | | | |
| 5 | A2.5 Practice within scope of practice in accordance regulatory body legislation requirements | | | |
| 6 | A2.6 Practice in accordance with regulatory body standards of practice | | | |
| 7 | A2.7 Practice in accordance with legislation regulations/ By- laws regulating medical radiation technologists | | | |
| **A3 Demonstrate professional behaviours** | | | | |
| 8 | A3.1 Demonstrate respect and sensitivity in both patient and professional interactions | | | |
| 9 | A3.2 Utilize stress management techniques | | | |
| 10 | A3.3 Utilize conflict management techniques | | | |
| 11 | A3.5 Exchange knowledge /skills with other members of health care teams to promote collaborative practice | | | |
| 12 | A3.8 Present a professional appearance manner | | | |
| | A7 Participate in resource management | | | |
| 13 | A7.1 Prioritize workflow to optimize patient outcomes | | | |
| 14 | A7.2 Monitor inventory of materials and supplies | | | |
| **B1 Provide a safe environment to minimize the risk of adverse events to the patient and to staff** | | | | |
| 15 | B1.1 Provide a safe, clean and comfortable environment | | | |
| 16 | B1.2 Transport the patient safely using equipment based on the patients physical and cognitive needs and resources available | | | |
| 17 | B1.3 Transfer the patient safely using equipment and techniques based on the patients physical and cognitive needs | | | |
| 18 | B1.4 Employ proper body mechanics to prevent harm to self and patient | | | |
| 19 | B1.5 Implement immobilization based on age, physical and cognitive status of the patient and type of procedure | | | |
| 20 | B1.6 Adjust the patients position to prevent harm and promote comfort | | | |
| 21 | B1.7 Verify patients identity following standardized protocol | | | |
| 22 | B1.8 Assess documentation for compliance with legal requirements | | | |
| 23 | B1.9 Complete documentation for compliance with regulations | | | |
| **B 2 Interact within the healthcare environment** | | | | |
| 24 | B2.1 Establish patient rapport | | | |
| 25 | B2.2 Use various forms of communication to provide relevant, accurate, and complete information | | | |
| 26 | B2.3 Exchange information regarding details of the procedure with patients and their support persons, to enable them to make informed decisions | | | |
| 27 | B2.4 Assess and Respond to cultural, ethnic, linguistic, religious and socioeconomic variable affecting communication | | | |
| **B3 Perform patient assessments and medical interventions within scope of practice in accordance with provincial regulatory body's legislation requirements.** | | | | |
| 28 | B3.1 Perform patient assessment | | | |
| 29 | B3.2 Assess, monitor and respond to various levels of patient status | | | |
| 30 | B3.3 Perform /participate in medical interventions | | | |
| 31 | B3.4 Assess, monitor and respond to the patients therapeutic and supportive devices to ensure patient safety and comfort | | | |
| 32 | B3.5 Ensure the patient's needs are met prior to release from the technologist's care | | | |
| **B4 Implement infection control practices** | | | | |

| | Competency | YES | NO | N/A |
|---|---|---|---|---|
| 33 | B4.1 Understand transmission mode of nosocomial infections (host, agent and environment) | | | |
| 34 | B4.2 Utilize routine practices for preventing the transmission of infection in health care | | | |
| 35 | B4.3 Apply principles of asepsis | | | |
| 36 | B4.4 Apply protocols when handling and disposing contaminated and biohazard materials such as sharps and body fluids | | | |
| 37 | B4.5 Adhere to protective environment protocols with patients who have compromised immunity | | | |
| 38 | B4.6 Adhere to protocols when caring for patients with antibiotic resistant organisms | | | |
| 39 | B4.7 Adhere to transmission based precautions for airborne , droplet and contact modes of transmission | | | |
| **B5 Respond to patients hygiene needs** | | | | |
| 40 | B5.1 Assist the patient with personal care | | | |
| **C1 Apply MR safety practices with respect to MR screening** | | | | |
| 41 | C1.1 Ensure that the patient screening forms are completed | | | |
| 42 | C1.2 Demonstrate an understanding of the magnetic properties of foreign objects | | | |
| 43 | C1.3 Determine whether foreign objects in /on the patient's body constitute a contraindication to MR | | | |
| 44 | C1.4 Determine exceptions to contraindications during the screening process | | | |
| 45 | C1.5 Determine patient's pregnancy status and take appropriate action | | | |
| 46 | C1.6 Screen MR personnel and support staff | | | |
| 47 | C1.7 Assess and remove any ancillary contraindicated objects from the patient, MR personnel and Support Staff | | | |
| 48 | C1.8 Identify the safety considerations related to the presence of ferromagnetic equipment/accessories (MR compatible or MR safe) in the magnetic field | | | |
| **C2 Apply safety guidelines with respect to MR bio-effects** | | | | |
| 49 | C2.1 Provide hearing protection to the patient and attending individuals. | | | |
| 50 | C2.6 Utilize safe practice in RF coil and equipment cable placement | | | |
| **F1 Perform duties that are common to all MR Imaging Procedures** | | | | |
| 51 | F1.1 Assess documentation for compliance with legal requirements | | | |
| 52 | F 1.2Demonstrate an understanding of related disciplines in order to review data available from images and/or reports of previous studies and procedures | | | |
| 53 | F1.3 Utilize the clinical information provided to adapt the requested exam to the individual patient | | | |
| 54 | F1.4 Ascertain the reasons for the MR examination, given an adequate clinical history | | | |
| 55 | F1.5 Adapt the procedure for the patients physical and cognitive condition | | | |
| 56 | F1.6 Monitor patients therapeutic tubes, lines, and supportive devices | | | |
| 57 | F1.7 Utilize equipment for monitoring patient's condition during the MR procedure | | | |
| 58 | F1.8 Enter and verify patient information into the MR system | | | |
| 59 | F1.9 Activate, monitor and manage the MR acquisition | | | |
| 60 | F1.10 Maintain communication with the patient throughout the examination | | | |
| 61 | F1.11 Prepare for the administration of contrast media | | | |
| 62 | F1.12 Assess and monitor the patient's condition | | | |
| 63 | F1.13 Recognize adverse reactions | | | |
| 64 | F1.14 Respond to adverse reactions | | | |
| 65 | F1.15 Monitor vital signs | | | |
| 66 | F1.16 Verify accuracy of patient demographics on the image using respective medium | | | |
| 67 | F1.17 Perform post processing to optimize the digital image | | | |
| 68 | F1.20 Recognize and respond to the need for medical consultation before dismissal of the patient | | | |
| 69 | F1.21 Recommend additional sequences in consultation with the physician | | | |
| 70 | F1.22 Ensure the patient's needs are met prior to release from the technologist's care | | | |
| **I1 Perform a Spinal Imaging Procedures** | | | | |
| 71 | I1.1 Understand pathology and anomalies related to the spine | | | |
| 72 | I1.2 Recognize signal characteristics consistent with pathology and anomalies related to the spine | | | |
| 73 | I1.3 Select the appropriate imaging parameters for spine imaging procedures | | | |
| 74 | I1.4 Evaluate image quality | | | |

| | Competency | YES | NO | N/A |
|---|---|---|---|---|
| 75 | I1.5 Evaluate image artifacts and take appropriate action | | | |
| 76 | I1.6 Evaluate the effects of changing imaging parameters and options on the image quality | | | |
| 77 | I1.7 Evaluate the effects of changing imaging parameters and options on the scan time | | | |
| 78 | I1.8 Evaluate the effects of changing imaging parameters and options on the anatomical coverage | | | |
| 79 | I1.9 Evaluate the effects of changing imaging parameters and options on the pathological visualization | | | |
| 80 | I1.10 Evaluate the effects of changing imaging parameters and options on the SAR reduction techniques | | | |
| 81 | I1.11 Understand the use of advanced imaging techniques | | | |
| **I2 Perform spine imaging procedure** | | | | |
| 82 | I 2.1Understand pathology and anomalies related to the spine | | | |
| 83 | I2.2 Select the optimal coil to image the spine | | | |
| 84 | I2.3 Prepare the patient for a spine imaging procedure based on the requested protocol and the patients physical and cognitive status | | | |
| 85 | I2.4 Position the patient and coil using anatomical landmark and relational anatomy | | | |
| 86 | I2.5 Landmark the cervical spine to the positioning light and advance the patient to isocenter | | | |
| 87 | I2.6 Select the optimal imaging plane for the spine part being examined | | | |
| 88 | I2.7 Determine and select the appropriate pulse sequences for optimal visualization of the spine | | | |
| 89 | I2.8 Consider patient related factors when modifying imaging planes and sequences to achieve optimal visualization of the spine | | | |
| 90 | I2.9 Optimize imaging parameters for the cervical spine | | | |
| 91 | I2.10 Select the optimal imaging options for each pulse sequence for the spine | | | |
| 92 | I2.11 Determine the limit and extent of image coverage for the spine | | | |
| | **Total** | | | |

Total:

$$\frac{(\#\text{ of YES})}{92 - (\#\text{ of N/A})} = \frac{\quad}{\quad} = \quad \%$$

Must attain a minimum of 60 % to achieve satisfactory results

The evaluating Technologist reserves the right to fail the student regardless of the number of “No’s” if there was a critical error.
Example: the exam was done perfectly but the patient had a pacemaker.

_____
Student Signature Date

_____
Evaluators Signature Date

## Modules A, B, C, F, I: Clinical Competency Evaluation: Thoracic Spine Routine

**Attempt _____**

Patient number _____Date of Competency _____

| | Competency | YES | NO | N/A |
|---|---|---|---|---|
| **A1 Demonstrates critical thinking** | | | | |
| 1 | A1.1 Apply critical thinking and problem solving strategies to ensure best practices | | | |
| **A2 Practice in accordance with legislation, regulations and ethical guidelines related to the profession** | | | | |
| 2 | A2.1 Practice patient care that protects the patient's legal rights | | | |
| 3 | A2.3 Perform all duties in compliance with sexual abuse prevention guidelines | | | |
| 4 | A2.4 Practice in accordance with national associations/provincial regulatory body's code of ethics | | | |
| 5 | A2.5 Practice within scope of practice in accordance regulatory body legislation requirements | | | |
| 6 | A2.6 Practice in accordance with regulatory body standards of practice | | | |
| 7 | A2.7 Practice in accordance with legislation regulations/ By- laws regulating medical radiation technologists | | | |
| **A3 Demonstrate professional behaviours** | | | | |
| 8 | A3.1 Demonstrate respect and sensitivity in both patient and professional interactions | | | |
| 9 | A3.2 Utilize stress management techniques | | | |
| 10 | A3.3 Utilize conflict management techniques | | | |
| 11 | A3.5 Exchange knowledge /skills with other members of health care teams to promote collaborative practice | | | |
| 12 | A3.8 Present a professional appearance manner | | | |
| | **A7 Participate in resource management** | | | |
| 13 | A7.1 Prioritize workflow to optimize patient outcomes | | | |
| 14 | A7.2 Monitor inventory of materials and supplies | | | |
| **B1 Provide a safe environment to minimize the risk of adverse events to the patient and to staff** | | | | |
| 15 | B1.1 Provide a safe, clean and comfortable environment | | | |
| 16 | B1.2 Transport the patient safely using equipment based on the patients physical and cognitive needs and resources available | | | |
| 17 | B1.3 Transfer the patient safely using equipment and techniques based on the patients physical and cognitive needs | | | |
| 18 | B1.4 Employ proper body mechanics to prevent harm to self and patient | | | |
| 19 | B1.5 Implement immobilization based on age , physical and cognitive status of the patient and type of procedure | | | |
| 20 | B1.6 Adjust the patients position to prevent harm and promote comfort | | | |
| 21 | B1.7 Verify patients identity following standardized protocol | | | |
| 22 | B1.8 Assess documentation for compliance with legal requirements | | | |
| 23 | B1.9 Complete documentation for compliance with regulations | | | |
| **B 2 Interact within the healthcare environment** | | | | |
| 24 | B2.1 Establish patient rapport | | | |
| 25 | B2.2 Use various forms of communication to provide relevant, accurate, and complete information | | | |
| 26 | B2.3 Exchange information regarding details of the procedure with patients and their support persons, to enable them to make informed decisions | | | |
| 27 | B2.4 Assess and Respond to cultural, ethnic, linguistic, religious and socioeconomic variable affecting communication | | | |
| **B3 Perform patient assessments and medical interventions within scope of practice in accordance with provincial regulatory body's legislation requirements.** | | | | |
| 28 | B3.1 Perform patient assessment | | | |
| 29 | B3.2 Assess, monitor and respond to various levels of patient status | | | |
| 30 | B3.3 Perform /participate in medical interventions | | | |
| 31 | B3.4 Assess, monitor and respond to the patients therapeutic and supportive devices to ensure patient safety and comfort | | | |

| | Competency | YES | NO | N/A |
|---|---|---|---|---|
| 32 | B3.5 Ensure the patient's needs are met prior to release from the technologist's care | | | |
| **B4 Implement infection control practices** | | | | |
| 33 | B4.1 Understand transmission mode of nosocomial infections (host, agent and environment) | | | |
| 34 | B4.2 Utilize routine practices for preventing the transmission of infection in health care | | | |
| 35 | B4.3 Apply principles of asepsis | | | |
| 36 | B4.4 Apply protocols when handling and disposing contaminated and biohazard materials such as sharps and body fluids | | | |
| 37 | B4.5 Adhere to protective environment protocols with patients who have compromised immunity | | | |
| 38 | B4.6 Adhere to protocols when caring for patients with antibiotic resistant organisms | | | |
| 39 | B4.7 Adhere to transmission based precautions for airborne , droplet and contact modes of transmission | | | |
| **B5 Respond to patients hygiene needs** | | | | |
| 40 | B5.1 Assist the patient with personal care | | | |
| **C1 Apply MR safety practices with respect to MR screening** | | | | |
| 41 | C1.1 Ensure that the patient screening forms are completed | | | |
| 42 | C1.2 Demonstrate an understanding of the magnetic properties of foreign objects | | | |
| 43 | C1.3 Determine whether foreign objects in /on the patient's body constitute a contraindication to MR | | | |
| 44 | C1.4 Determine exceptions to contraindications during the screening process | | | |
| 45 | C1.5 Determine patient's pregnancy status and take appropriate action | | | |
| 46 | C1.6 Screen MR personnel and support staff | | | |
| 47 | C1.7 Assess and remove any ancillary contraindicated objects from the patient, MR personnel and Support Staff | | | |
| 48 | C1.8 Identify the safety considerations related to the presence of ferromagnetic equipment/accessories (MR compatible or MR safe) in the magnetic field | | | |
| **C2 Apply safety guidelines with respect to MR bio-effects** | | | | |
| 49 | C2.1 Provide hearing protection to the patient and attending individuals. | | | |
| 50 | C2.6 Utilize safe practice in RF coil and equipment cable placement | | | |
| **F1 Perform duties that are common to all MR Imaging Procedures** | | | | |
| 51 | F1.1 Assess documentation for compliance with legal requirements | | | |
| 52 | F 1.2Demonstrate an understanding of related disciplines in order to review data available from images and/or reports of previous studies and procedures | | | |
| 53 | F1.3 Utilize the clinical information provided to adapt the requested exam to the individual patient | | | |
| 54 | F1.4 Ascertain the reasons for the MR examination, given an adequate clinical history | | | |
| 55 | F1.5 Adapt the procedure for the patients physical and cognitive condition | | | |
| 56 | F1.6 Monitor patients therapeutic tubes, lines, and supportive devices | | | |
| 57 | F1.7 Utilize equipment for monitoring patient's condition during the MR procedure | | | |
| 58 | F1.8 Enter and verify patient information into the MR system | | | |
| 59 | F1.9 Activate, monitor and manage the MR acquisition | | | |
| 60 | F1.10 Maintain communication with the patient throughout the examination | | | |
| 61 | F1.12 Assess and monitor the patient's condition | | | |
| 62 | F1.13 Recognize adverse reactions | | | |
| 63 | F1.14 Respond to adverse reactions | | | |
| 64 | F1.15 Monitor vital signs | | | |
| 65 | F1.16 Verify accuracy of patient demographics on the image using respective medium | | | |
| 66 | F1.17 Perform post processing to optimize the digital image | | | |
| 67 | F1.20 Recognize and respond to the need for medical consultation before dismissal of the patient | | | |
| 68 | F1.21 Recommend additional sequences in consultation with the physician | | | |
| 69 | F1.22 Ensure the patient's needs are met prior to release from the technologist's care | | | |
| **I1 Perform a Spinal Imaging Procedures** | | | | |
| 70 | I1.1 Understand pathology and anomalies related to the spine | | | |
| 71 | I1.2 Recognize signal characteristics consistent with pathology and anomalies related to the spine | | | |
| 72 | I1.3 Select the appropriate imaging parameters for the spine | | | |

| | Competency | YES | NO | N/A |
|---|---|---|---|---|
| 73 | I1.4 Evaluate image quality | | | |
| 74 | I1.5 Evaluate image artifacts and take appropriate action | | | |
| 75 | I1.6 Evaluate the effects of changing imaging parameters and options on the image quality | | | |
| 76 | I1.7 Evaluate the effects of changing imaging parameters and options on the scan time | | | |
| 77 | I1.8 Evaluate the effects of changing imaging parameters and options on the anatomical coverage | | | |
| 78 | I1.9 Evaluate the effects of changing imaging parameters and options on the pathological visualization | | | |
| 79 | I1.10 Evaluate the effects of changing imaging parameters and options on the SAR reduction techniques | | | |
| 80 | I1.11 Understand the use of advanced imaging techniques | | | |
| **I3 Perform Thoracic spine imaging procedure** | | | | |
| 81 | I 3.1 Understand gross anatomy ,cross sectional anatomy and physiology related the thoracic spine | | | |
| 82 | I3.2 Select the optimal coil to image the thoracic spine | | | |
| 83 | I3.3 Prepare the patient for a thoracic spine imaging procedure based on the requested protocol and the patients physical and cognitive status | | | |
| 84 | I3.4 Position the patient and coil using anatomical landmark and relational anatomy | | | |
| 85 | I3.5 Landmark the thoracic spine to the positioning light and advance the patient to isocenter | | | |
| 86 | I3.6 Select the optimal imaging plane for the thoracic spine part being examined | | | |
| 87 | I3.7 Determine and select the appropriate pulse sequences for optimal visualization of the thoracic spine | | | |
| 88 | I3.8 Consider patient related factors when modifying imaging planes and sequences to achieve optimal visualization of the thoracic spine | | | |
| 89 | I3.9 Optimize imaging parameters for the thoracic spine | | | |
| 90 | I3.10 Select the optimal imaging options for each pulse sequence for the thoracic spine | | | |
| 91 | I3.11 Determine the limit and extent of image coverage for the thoracic spine | | | |
| | **Total** | | | |

Total:

$$\frac{\text{(\# of YES)}}{91 - \text{(\# of N/A)}} = \frac{\quad}{\quad} = \quad \%$$

Must attain a minimum of 60 % to achieve satisfactory results

The evaluating Technologist reserves the right to fail the student regardless of the number of “No’s” if there was a critical error.
Example: the exam was done perfectly but the patient had a pacemaker.

_____
Student Signature Date

_____
Evaluators Signature Date

## Modules A, B, C, F, I: Clinical Competency Evaluation: Lumbar Spine Routine

**Attempt ____**

Patient number _____Date of Competency _____

| | Competency | YES | NO | N/A |
|---|---|---|---|---|
| **A1 Demonstrates critical thinking** | | | | |
| 1 | A1.1 Apply critical thinking and problem solving strategies to ensure best practices | | | |
| **A2 Practice in accordance with legislation, regulations and ethical guidelines related to the profession** | | | | |
| 2 | A2.1 Practice patient care that protects the patient's legal rights | | | |
| 3 | A2.3 Perform all duties in compliance with sexual abuse prevention guidelines | | | |
| 4 | A2.4 Practice in accordance with national associations/provincial regulatory body's code of ethics | | | |
| 5 | A2.5 Practice within scope of practice in accordance regulatory body legislation requirements | | | |
| 6 | A2.6 Practice in accordance with regulatory body standards of practice | | | |
| 7 | A2.7 Practice in accordance with legislation regulations/ By- laws regulating medical radiation technologists | | | |
| **A3 Demonstrate professional behaviours** | | | | |
| 8 | A3.1 Demonstrate respect and sensitivity in both patient and professional interactions | | | |
| 9 | A3.2 Utilize stress management techniques | | | |
| 10 | A3.3 Utilize conflict management techniques | | | |
| 11 | A3.5 Exchange knowledge /skills with other members of health care teams to promote collaborative practice | | | |
| 12 | A3.8 Present a professional appearance manner | | | |
| **A7 Participate in resource management** | | | | |
| 13 | A7.1 Prioritize workflow to optimize patient outcomes | | | |
| 14 | A7.2 Monitor inventory of materials and supplies | | | |
| **B1 Provide a safe environment to minimize the risk of adverse events to the patient and to staff** | | | | |
| 15 | B1.1 Provide a safe, clean and comfortable environment | | | |
| 16 | B1.2 Transport the patient safely using equipment based on the patients physical and cognitive needs and resources available | | | |
| 17 | B1.3 Transfer the patient safely using equipment and techniques based on the patients physical and cognitive needs | | | |
| 18 | B1.4 Employ proper body mechanics to prevent harm to self and patient | | | |
| 19 | B1.5 Implement immobilization based on age , physical and cognitive status of the patient and type of procedure | | | |
| 20 | B1.6 Adjust the patients position to prevent harm and promote comfort | | | |
| 21 | B1.7 Verify patients identity following standardized protocol | | | |
| 22 | B1.8 Assess documentation for compliance with legal requirements | | | |
| 23 | B1.9 Complete documentation for compliance with regulations | | | |
| B 2 **Interact within the healthcare environment** | | | | |
| 24 | B2.1 Establish patient rapport | | | |
| 25 | B2.2 Use various forms of communication to provide relevant, accurate, and complete information | | | |
| 26 | B2.3 Exchange information regarding details of the procedure with patients and their support persons, to enable them to make informed decisions | | | |
| 27 | B2.4 Assess and Respond to cultural, ethnic, linguistic, religious and socioeconomic variable affecting communication | | | |
| **B3 Perform patient assessments and medical interventions within scope of practice in accordance with provincial regulatory body's legislation requirements.** | | | | |
| 28 | B3.1 Perform patient assessment | | | |
| 29 | B3.2 Assess, monitor and respond to various levels of patient status | | | |
| 30 | B3.3 Perform /participate in medical interventions | | | |
| 31 | B3.4 Assess, monitor and respond to the patients therapeutic and supportive devices to ensure patient safety and comfort | | | |

| | Competency | YES | NO | N/A |
|---|---|---|---|---|
| 32 | B3.5 Ensure the patient's needs are met prior to release from the technologist's care | | | |
| **B4 Implement infection control practices** | | | | |
| 33 | B4.1 Understand transmission mode of nosocomial infections (host, agent and environment) | | | |
| 34 | B4.2 Utilize routine practices for preventing the transmission of infection in health care | | | |
| 35 | B4.3 Apply principles of asepsis | | | |
| 36 | B4.4 Apply protocols when handling and disposing contaminated and biohazard materials such as sharps and body fluids | | | |
| 37 | B4.5 Adhere to protective environment protocols with patients who have compromised immunity | | | |
| 38 | B4.6 Adhere to protocols when caring for patients with antibiotic resistant organisms | | | |
| 39 | B4.7 Adhere to transmission based precautions for airborne , droplet and contact modes of transmission | | | |
| **B5 Respond to patients hygiene needs** | | | | |
| 40 | B5.1 Assist the patient with personal care | | | |
| **C1 Apply MR safety practices with respect to MR screening** | | | | |
| 41 | C1.1 Ensure that the patient screening forms are completed | | | |
| 42 | C1.2 Demonstrate an understanding of the magnetic properties of foreign objects | | | |
| 43 | C1.3 Determine whether foreign objects in /on the patient's body constitute a contraindication to MR | | | |
| 44 | C1.4 Determine exceptions to contraindications during the screening process | | | |
| 45 | C1.5 Determine patient's pregnancy status and take appropriate action | | | |
| 46 | C1.6 Screen MR personnel and support staff | | | |
| 47 | C1.7 Assess and remove any ancillary contraindicated objects from the patient, MR personnel and Support Staff | | | |
| 48 | C1.8 Identify the safety considerations related to the presence of ferromagnetic equipment/accessories (MR compatible or MR safe) in the magnetic field | | | |
| **C2 Apply safety guidelines with respect to MR bio-effects** | | | | |
| 49 | C2.1 Provide hearing protection to the patient and attending individuals. | | | |
| 50 | C2.6 Utilize safe practice in RF coil and equipment cable placement | | | |
| **F1 Perform duties that are common to all MR Imaging Procedures** | | | | |
| 51 | F1.1 Assess documentation for compliance with legal requirements | | | |
| 52 | F1.2 Demonstrate an understanding of related disciplines in order to review data available from images and/or reports of previous studies and procedures | | | |
| 53 | F1.3 Utilize the clinical information provided to adapt the requested exam to the individual patient | | | |
| 54 | F1.4 Ascertain the reasons for the MR examination, given an adequate clinical history | | | |
| 55 | F1.5 Adapt the procedure for the patients physical and cognitive condition | | | |
| 56 | F1.6 Monitor patients therapeutic tubes, lines, and supportive devices | | | |
| 57 | F1.7 Utilize equipment for monitoring patient's condition during the MR procedure | | | |
| 58 | F1.8 Enter and verify patient information into the MR system | | | |
| 59 | F1.9 Activate, monitor and manage the MR acquisition | | | |
| 60 | F1.10 Maintain communication with the patient throughout the examination | | | |
| 61 | F1.12 Assess and monitor the patient's condition | | | |
| 62 | F1.13 Recognize adverse reactions | | | |
| 63 | F1.14 Respond to adverse reactions | | | |
| 64 | F1.15 Monitor vital signs | | | |
| 65 | F1.16 Verify accuracy of patient demographics on the image using respective medium | | | |
| 66 | F1.17 Perform post processing to optimize the digital image | | | |
| 67 | F1.20 Recognize and respond to the need for medical consultation before dismissal of the patient | | | |
| 68 | F1.21 Recommend additional sequences in consultation with the physician | | | |
| 69 | F1.22 Ensure the patient's needs are met prior to release from the technologist's care | | | |
| **I1 Perform a Spinal Imaging Procedures** | | | | |
| 70 | I1.1 Understand pathology and anomalies related to the spine | | | |
| 71 | I1.2 Recognize signal characteristics consistent with pathology and anomalies related to the spine | | | |

| | Competency | YES | NO | N/A |
|---|---|---|---|---|
| 72 | I1.3 Select the appropriate imaging parameters for the spine | | | |
| 73 | I1.4 Evaluate image quality | | | |
| 74 | I1.5 Evaluate image artifacts and take appropriate action | | | |
| 75 | I1.6 Evaluate the effects of changing imaging parameters and options on the image quality | | | |
| 76 | I1.7 Evaluate the effects of changing imaging parameters and options on the scan time | | | |
| 77 | I1.8 Evaluate the effects of changing imaging parameters and options on the anatomical coverage | | | |
| 78 | i1.9 Evaluate the effects of changing imaging parameters and options on the pathological visualization | | | |
| 79 | I1.10 Evaluate the effects of changing imaging parameters and options on the SAR reduction techniques | | | |
| 80 | I1.11 Understand the use of advanced imaging techniques | | | |
| **I4 Perform Lumbar spine imaging procedure** | | | | |
| 81 | I 4.1 Understand gross anatomy , cross sectional anatomy and physiology to the lumbar spine | | | |
| 82 | I4.2 Select the optimal coil to image the lumbar spine | | | |
| 83 | I4.3 Prepare the patient for a lumbar spine imaging procedure based on the requested protocol and the patients physical and cognitive status | | | |
| 84 | I4.4 Position the patient and coil using anatomical landmark and relational anatomy | | | |
| 85 | I4.5 Landmark the lumbar spine to the positioning light and advance the patient to isocenter | | | |
| 86 | I4.6 Select the optimal imaging plane for the lumbar spine part being examined | | | |
| 87 | I4.7 Determine and select the appropriate pulse sequences for optimal visualization of the lumbar spine | | | |
| 88 | I4.8 Consider patient related factors when modifying imaging planes and sequences to achieve optimal visualization of the lumbar spine | | | |
| 89 | I4.9 Optimize imaging parameters for the lumbar spine | | | |
| 90 | I4.10 Select the optimal imaging options for each pulse sequence for the lumbar spine | | | |
| 91 | I4.11 Determine the limit and extent of image coverage for the lumbar spine | | | |
| | **Total** | | | |

Total:

$$\frac{\text{(\# of YES)}}{91 - \text{(\# of N/A)}} = \frac{\quad}{\quad} = \quad \%$$

Must attain a minimum of 60 % to achieve satisfactory results

The evaluating Technologist reserves the right to fail the student regardless of the number of “No’s” if there was a critical error.
Example: the exam was done perfectly but the patient had a pacemaker.

_____
Student Signature Date

_____
Evaluators Signature Date

## Modules A, B, C, F, I G: Clinical Competency Evaluation: Brachial plexus Routine

**Attempt ____**

Patient number _____Date of Competency _____

| | Competency | YES | NO | N/A |
|---|---|---|---|---|
| **A1 Demonstrates critical thinking** | | | | |
| 1 | A1.1 Apply critical thinking and problem solving strategies to ensure best practices | | | |
| **A2 Practice in accordance with legislation, regulations and ethical guidelines related to the profession** | | | | |
| 2 | A2.1 Practice patient care that protects the patient's legal rights | | | |
| 3 | A2.3 Perform all duties in compliance with sexual abuse prevention guidelines | | | |
| 4 | A2.4 Practice in accordance with national associations/provincial regulatory body's code of ethics | | | |
| 5 | A2.5 Practice within scope of practice in accordance regulatory body legislation requirements | | | |
| 6 | A2.6 Practice in accordance with regulatory body standards of practice | | | |
| 7 | A2.7 Practice in accordance with legislation regulations/ By- laws regulating medical radiation technologists | | | |
| **A3 Demonstrate professional behaviours** | | | | |
| 8 | A3.1 Demonstrate respect and sensitivity in both patient and professional interactions | | | |
| 9 | A3.2 Utilize stress management techniques | | | |
| 10 | A3.3 Utilize conflict management techniques | | | |
| 11 | A3.5 Exchange knowledge /skills with other members of health care teams to promote collaborative practice | | | |
| 12 | A3.8 Present a professional appearance manner | | | |
| **A7 Participate in resource management** | | | | |
| 13 | A7.1 Prioritize workflow to optimize patient outcomes | | | |
| 14 | A7.2 Monitor inventory of materials and supplies | | | |
| **B1 Provide a safe environment to minimize the risk of adverse events to the patient and to staff** | | | | |
| 15 | B1.1 Provide a safe, clean and comfortable environment | | | |
| 16 | B1.2 Transport the patient safely using equipment based on the patients physical and cognitive needs and resources available | | | |
| 17 | B1.3 Transfer the patient safely using equipment and techniques based on the patients physical and cognitive needs | | | |
| 18 | B1.4 Employ proper body mechanics to prevent harm to self and patient | | | |
| 19 | B1.5 Implement immobilization based on age , physical and cognitive status of the patient and type of procedure | | | |
| 20 | B1.6 Adjust the patients position to prevent harm and promote comfort | | | |
| 21 | B1.7 Verify patients identity following standardized protocol | | | |
| 22 | B1.8 Assess documentation for compliance with legal requirements | | | |
| 23 | B1.9 Complete documentation for compliance with regulations | | | |
| B 2 **Interact within the healthcare environment** | | | | |
| 24 | B2.1 Establish patient rapport | | | |
| 25 | B2.2 Use various forms of communication to provide relevant, accurate, and complete information | | | |
| 26 | B2.3 Exchange information regarding details of the procedure with patients and their support persons, to enable them to make informed decisions | | | |
| 27 | B2.4 Assess and Respond to cultural, ethnic, linguistic, religious and socioeconomic variable affecting communication | | | |
| **B3 Perform patient assessments and medical interventions within scope of practice in accordance with provincial regulatory body's legislation requirements.** | | | | |
| 28 | B3.1 Perform patient assessment | | | |
| 29 | B3.2 Assess, monitor and respond to various levels of patient status | | | |
| 30 | B3.3 Perform /participate in medical interventions | | | |
| 31 | B3.4 Assess, monitor and respond to the patients therapeutic and supportive devices to ensure patient safety and comfort | | | |
| 32 | B3.5 Ensure the patient's needs are met prior to release from the technologist's care | | | |

| | Competency | YES | NO | N/A |
|---|---|---|---|---|
| **B4 Implement infection control practices** | | | | |
| 33 | B4.1 Understand transmission mode of nosocomial infections (host, agent and environment) | | | |
| 34 | B4.2 Utilize routine practices for preventing the transmission of infection in health care | | | |
| 35 | B4.3 Apply principles of asepsis | | | |
| 36 | B4.4 Apply protocols when handling and disposing contaminated and biohazard materials such as sharps and body fluids | | | |
| 37 | B4.5 Adhere to protective environment protocols with patients who have compromised immunity | | | |
| 38 | B4.6 Adhere to protocols when caring for patients with antibiotic resistant organisms | | | |
| 39 | B4.7 Adhere to transmission based precautions for airborne , droplet and contact modes of transmission | | | |
| **B5 Respond to patients hygiene needs** | | | | |
| 40 | B5.1 Assist the patient with personal care | | | |
| **C1 Apply MR safety practices with respect to MR screening** | | | | |
| 41 | C1.1 Ensure that the patient screening forms are completed | | | |
| 42 | C1.2 Demonstrate an understanding of the magnetic properties of foreign objects | | | |
| 43 | C1.3 Determine whether foreign objects in /on the patient's body constitute a contraindication to MR | | | |
| 44 | C1.4 Determine exceptions to contraindications during the screening process | | | |
| 45 | C1.5 Determine patient's pregnancy status and take appropriate action | | | |
| 46 | C1.6 Screen MR personnel and support staff | | | |
| 47 | C1.7 Assess and remove any ancillary contraindicated objects from the patient, MR personnel and Support Staff | | | |
| 48 | C1.8 Identify the safety considerations related to the presence of ferromagnetic equipment/accessories (MR compatible or MR safe) in the magnetic field | | | |
| **C2 Apply safety guidelines with respect to MR bio-effects** | | | | |
| 49 | C2.1 Provide hearing protection to the patient and attending individuals. | | | |
| 50 | C2.6 Utilize safe practice in RF coil and equipment cable placement | | | |
| **F1 Perform duties that are common to all MR Imaging Procedures** | | | | |
| 51 | F1.1 Assess documentation for compliance with legal requirements | | | |
| 52 | F1.2 Demonstrate an understanding of related disciplines in order to review data available from images and/or reports of previous studies and procedures | | | |
| 53 | F1.3 Utilize the clinical information provided to adapt the requested exam to the individual patient | | | |
| 54 | F1.4 Ascertain the reasons for the MR examination, given an adequate clinical history | | | |
| 55 | F1.5 Adapt the procedure for the patients physical and cognitive condition | | | |
| 56 | F1.6 Monitor patients therapeutic tubes, lines, and supportive devices | | | |
| 57 | F1.7 Utilize equipment for monitoring patient's condition during the MR procedure | | | |
| 58 | F1.8 Enter and verify patient information into the MR system | | | |
| 59 | F1.9 Activate, monitor and manage the MR acquisition | | | |
| 60 | F1.10 Maintain communication with the patient throughout the examination | | | |
| 61 | F1.12 Assess and monitor the patient's condition | | | |
| 62 | F1.13 Recognize adverse reactions | | | |
| 63 | F1.14 Respond to adverse reactions | | | |
| 64 | F1.15 Monitor vital signs | | | |
| 65 | F1.16 Verify accuracy of patient demographics on the image using respective medium | | | |
| 66 | F1.17 Perform post processing to optimize the digital image | | | |
| 67 | F1.20 Recognize and respond to the need for medical consultation before dismissal of the patient | | | |
| 68 | F1.21 Recommend additional sequences in consultation with the physician | | | |
| 69 | F1.22 Ensure the patient's needs are met prior to release from the technologist's care | | | |
| **I1 Perform a Spinal Imaging Procedures** | | | | |
| 70 | I1.1 Understand pathology and anomalies related to the spine | | | |
| 71 | I1.2 Recognize signal characteristics consistent with pathology and anomalies related to the spine | | | |
| 72 | I1.3 Select the appropriate imaging parameters for the spine | | | |

| | Competency | YES | NO | N/A |
|---|---|---|---|---|
| 73 | I1.4 Evaluate image quality | | | |
| 74 | I1.5 Evaluate image artifacts and take appropriate action | | | |
| 75 | I1.6 Evaluate the effects of changing imaging parameters and options on the image quality | | | |
| 76 | I1.7 Evaluate the effects of changing imaging parameters and options on the scan time | | | |
| 77 | I1.8 Evaluate the effects of changing imaging parameters and options on the anatomical coverage | | | |
| 78 | i1.9 Evaluate the effects of changing imaging parameters and options on the pathological visualization | | | |
| 79 | I1.10 Evaluate the effects of changing imaging parameters and options on the SAR reduction techniques | | | |
| 80 | I1.11 Understand the use of advanced imaging techniques | | | |
| **I7 Perform brachial plexus imaging procedure** | | | | |
| 81 | I 7.1 Understand gross anatomy, cross sectional anatomy and physiology to the brachial plexus | | | |
| 82 | I7.2 Select the optimal coil to image the brachial plexus | | | |
| 83 | I7 3 Prepare the patient for a brachial plexus imaging procedure based on the requested protocol and the patients physical and cognitive status | | | |
| 84 | I7 .4 Position the patient and coil using anatomical landmark and relational anatomy | | | |
| 85 | I7.5 Landmark the brachial plexus joints to the positioning light and advance the patient to isocenter | | | |
| 86 | I7.6 Select the optimal imaging plane for the part being examined | | | |
| 87 | I7.7 Determine and select the appropriate pulse sequences for optimal visualization of the brachial plexus | | | |
| 88 | I7.8 Consider patient related factors when modifying imaging planes and sequences to achieve optimal visualization of the brachial plexus | | | |
| 89 | I7.9 Optimize imaging parameters for the brachial plexus | | | |
| 90 | I7.10 Select the optimal imaging options for each pulse sequence for the brachial plexus | | | |
| 91 | I7.11 Determine the limit and extent of image coverage for the brachial plexus | | | |
| | **Total** | | | |

Total:

$$\frac{\text{(\# of YES)}}{91 - \text{(\# of N/A)}} = \frac{\quad}{\quad} = \quad \%$$

Must attain a minimum of 60 % to achieve satisfactory results

The evaluating Technologist reserves the right to fail the student regardless of the number of “No’s” if there was a critical error.
Example: the exam was done perfectly but the patient had a pacemaker.

_____
Student Signature Date

_____
Evaluators Signature Date

## Modules A, B, C, F, I: Clinical Competency Evaluation: Complete Spine Routine

**Attempt ____**

Patient number _____Date of Competency _____

| | Competency | YES | NO | N/A |
|---|---|---|---|---|
| **A1 Demonstrates critical thinking** | | | | |
| 1 | A1.1 Apply critical thinking and problem solving strategies to ensure best practices | | | |
| **A2 Practice in accordance with legislation, regulations and ethical guidelines related to the profession** | | | | |
| 2 | A2.1 Practice patient care that protects the patient's legal rights | | | |
| 3 | A2.3 Perform all duties in compliance with sexual abuse prevention guidelines | | | |
| 4 | A2.4 Practice in accordance with national associations/provincial regulatory body's code of ethics | | | |
| 5 | A2.5 Practice within scope of practice in accordance regulatory body legislation requirements | | | |
| 6 | A2.6 Practice in accordance with regulatory body standards of practice | | | |
| 7 | A2.7 Practice in accordance with legislation regulations/ By- laws regulating medical radiation technologists | | | |
| **A3 Demonstrate professional behaviours** | | | | |
| 8 | A3.1 Demonstrate respect and sensitivity in both patient and professional interactions | | | |
| 9 | A3.2 Utilize stress management techniques | | | |
| 10 | A3.3 Utilize conflict management techniques | | | |
| 11 | A3.5 Exchange knowledge /skills with other members of health care teams to promote collaborative practice | | | |
| 12 | A3.8 Present a professional appearance manner | | | |
| **A7 Participate in resource management** | | | | |
| 13 | A7.1 Prioritize workflow to optimize patient outcomes | | | |
| 14 | A7.2 Monitor inventory of materials and supplies | | | |
| **B1 Provide a safe environment to minimize the risk of adverse events to the patient and to staff** | | | | |
| 15 | B1.1 Provide a safe, clean and comfortable environment | | | |
| 16 | B1.2 Transport the patient safely using equipment based on the patients physical and cognitive needs and resources available | | | |
| 17 | B1.3 Transfer the patient safely using equipment and techniques based on the patients physical and cognitive needs | | | |
| 18 | B1.4 Employ proper body mechanics to prevent harm to self and patient | | | |
| 19 | B1.5 Implement immobilization based on age , physical and cognitive status of the patient and type of procedure | | | |
| 20 | B1.6 Adjust the patients position to prevent harm and promote comfort | | | |
| 21 | B1.7 Verify patients identity following standardized protocol | | | |
| 22 | B1.8 Assess documentation for compliance with legal requirements | | | |
| 23 | B1.9 Complete documentation for compliance with regulations | | | |
| B 2 **Interact within the healthcare environment** | | | | |
| 24 | B2.1 Establish patient rapport | | | |
| 25 | B2.2 Use various forms of communication to provide relevant, accurate, and complete information | | | |
| 26 | B2.3 Exchange information regarding details of the procedure with patients and their support persons, to enable them to make informed decisions | | | |
| 27 | B2.4 Assess and Respond to cultural, ethnic, linguistic, religious and socioeconomic variable affecting communication | | | |
| **B3 Perform patient assessments and medical interventions within scope of practice in accordance with provincial regulatory body's legislation requirements.** | | | | |
| 28 | B3.1 Perform patient assessment | | | |
| 29 | B3.2 Assess, monitor and respond to various levels of patient status | | | |
| 30 | B3.3 Perform /participate in medical interventions | | | |
| 31 | B3.4 Assess, monitor and respond to the patients therapeutic and supportive devices to ensure patient safety and comfort | | | |
| 32 | B3.5 Ensure the patient's needs are met prior to release from the technologist's care | | | |

| | Competency | YES | NO | N/A |
|---|---|---|---|---|
| **B4 Implement infection control practices** | | | | |
| 33 | B4.1 Understand transmission mode of nosocomial infections (host, agent and environment) | | | |
| 34 | B4.2 Utilize routine practices for preventing the transmission of infection in health care | | | |
| 35 | B4.3 Apply principles of asepsis | | | |
| 36 | B4.4 Apply protocols when handling and disposing contaminated and biohazard materials such as sharps and body fluids | | | |
| 37 | B4.5 Adhere to protective environment protocols with patients who have compromised immunity | | | |
| 38 | B4.6 Adhere to protocols when caring for patients with antibiotic resistant organisms | | | |
| 39 | B4.7 Adhere to transmission based precautions for airborne , droplet and contact modes of transmission | | | |
| **B5 Respond to patients hygiene needs** | | | | |
| 40 | B5.1 Assist the patient with personal care | | | |
| **C1 Apply MR safety practices with respect to MR screening** | | | | |
| 41 | C1.1 Ensure that the patient screening forms are completed | | | |
| 42 | C1.2 Demonstrate an understanding of the magnetic properties of foreign objects | | | |
| 43 | C1.3 Determine whether foreign objects in /on the patient's body constitute a contraindication to MR | | | |
| 44 | C1.4 Determine exceptions to contraindications during the screening process | | | |
| 45 | C1.5 Determine patient's pregnancy status and take appropriate action | | | |
| 46 | C1.6 Screen MR personnel and support staff | | | |
| 47 | C1.7 Assess and remove any ancillary contraindicated objects from the patient, MR personnel and Support Staff | | | |
| 48 | C1.8 Identify the safety considerations related to the presence of ferromagnetic equipment/accessories (MR compatible or MR safe) in the magnetic field | | | |
| **C2 Apply safety guidelines with respect to MR bio-effects** | | | | |
| 49 | C2.1 Provide hearing protection to the patient and attending individuals. | | | |
| 50 | C2.6 Utilize safe practice in RF coil and equipment cable placement | | | |
| **F1 Perform duties that are common to all MR Imaging Procedures** | | | | |
| 51 | F1.1 Assess documentation for compliance with legal requirements | | | |
| 52 | F1.2 Demonstrate an understanding of related disciplines in order to review data available from images and/or reports of previous studies and procedures | | | |
| 53 | F1.3 Utilize the clinical information provided to adapt the requested exam to the individual patient | | | |
| 54 | F1.4 Ascertain the reasons for the MR examination, given an adequate clinical history | | | |
| 55 | F1.5 Adapt the procedure for the patients physical and cognitive condition | | | |
| 56 | F1.6 Monitor patients therapeutic tubes, lines, and supportive devices | | | |
| 57 | F1.7 Utilize equipment for monitoring patient's condition during the MR procedure | | | |
| 58 | F1.8 Enter and verify patient information into the MR system | | | |
| 59 | F1.9 Activate, monitor and manage the MR acquisition | | | |
| 60 | F1.10 Maintain communication with the patient throughout the examination | | | |
| 61 | F1.12 Assess and monitor the patient's condition | | | |
| 62 | F1.13 Recognize adverse reactions | | | |
| 63 | F1.14 Respond to adverse reactions | | | |
| 64 | F1.15 Monitor vital signs | | | |
| 65 | F1.16 Verify accuracy of patient demographics on the image using respective medium | | | |
| 66 | F1.17 Perform post processing to optimize the digital image | | | |
| 67 | F1.20 Recognize and respond to the need for medical consultation before dismissal of the patient | | | |
| 68 | F1.21 Recommend additional sequences in consultation with the physician | | | |
| 69 | F1.22 Ensure the patient's needs are met prior to release from the technologist's care | | | |
| **I1 Perform a Spinal Imaging Procedures** | | | | |
| 70 | I1.1 Understand pathology and anomalies related to the spine | | | |
| 71 | I1.2 Recognize signal characteristics consistent with pathology and anomalies related to the spine | | | |
| 72 | I1.3 Select the appropriate imaging parameters for the spine | | | |

| | Competency | YES | NO | N/A |
|---|---|---|---|---|
| 73 | I1.4 Evaluate image quality | | | |
| 74 | I1.5 Evaluate image artifacts and take appropriate action | | | |
| 75 | I1.6 Evaluate the effects of changing imaging parameters and options on the image quality | | | |
| 76 | I1.7 Evaluate the effects of changing imaging parameters and options on the scan time | | | |
| 77 | I1.8 Evaluate the effects of changing imaging parameters and options on the anatomical coverage | | | |
| 78 | i1.9 Evaluate the effects of changing imaging parameters and options on the pathological visualization | | | |
| 79 | I1.10 Evaluate the effects of changing imaging parameters and options on the SAR reduction techniques | | | |
| 80 | I1.11 Understand the use of advanced imaging techniques | | | |
| **I6 Perform complete spine imaging procedure** | | | | |
| 81 | I 6.1 Understand gross anatomy, cross sectional anatomy and physiology to the complete spine | | | |
| 82 | I6.2 Select the optimal coil to image the complete spine | | | |
| 83 | I6.3 Prepare the patient for a complete spine imaging procedure based on the requested protocol and the patients physical and cognitive status | | | |
| 84 | I6.4 Position the patient and coil using anatomical landmark and relational anatomy | | | |
| 85 | I6.5 Landmark the complete spine to the positioning light and advance the patient to isocenter | | | |
| 86 | I6.6 Select the optimal imaging plane for the complete spine part being examined | | | |
| 87 | I6.7 Determine and select the appropriate pulse sequences for optimal visualization of the complete spine | | | |
| 88 | I6.8 Consider patient related factors when modifying imaging planes and sequences to achieve optimal visualization of the complete spine | | | |
| 89 | I6.9 Optimize imaging parameters for the complete spine | | | |
| 90 | I6.10 Select the optimal imaging options for each pulse sequence for the complete spine | | | |
| 91 | I6.11 Determine the limit and extent of image coverage for the complete spine | | | |
| | **Total** | | | |

Total:

$$\frac{\text{(\# of YES)}}{91 - \text{(\# of N/A)}} = \frac{\quad}{\quad} = \quad \%$$

Must attain a minimum of 60 % to achieve satisfactory results

The evaluating Technologist reserves the right to fail the student regardless of the number of “No’s” if there was a critical error.
Example: the exam was done perfectly but the patient had a pacemaker.

_____
Student Signature Date

_____
Evaluators Signature Date

## Modules A, B, C, F, I G: Clinical Competency Evaluation: Sacral Spine /SI joints

**Routine** **Attempt** ____

Patient number _____Date of Competency _____

| | Competency | YES | NO | N/A |
|---|---|---|---|---|
| **A1 Demonstrates critical thinking** | | | | |
| 1 | A1.1 Apply critical thinking and problem solving strategies to ensure best practices | | | |
| **A2 Practice in accordance with legislation, regulations and ethical guidelines related to the profession** | | | | |
| 2 | A2.1 Practice patient care that protects the patient's legal rights | | | |
| 3 | A2.3 Perform all duties in compliance with sexual abuse prevention guidelines | | | |
| 4 | A2.4 Practice in accordance with national associations/provincial regulatory body's code of ethics | | | |
| 5 | A2.5 Practice within scope of practice in accordance regulatory body legislation requirements | | | |
| 6 | A2.6 Practice in accordance with regulatory body standards of practice | | | |
| 7 | A2.7 Practice in accordance with legislation regulations/ By- laws regulating medical radiation technologists | | | |
| **A3 Demonstrate professional behaviours** | | | | |
| 8 | A3.1 Demonstrate respect and sensitivity in both patient and professional interactions | | | |
| 9 | A3.2 Utilize stress management techniques | | | |
| 10 | A3.3 Utilize conflict management techniques | | | |
| 11 | A3.5 Exchange knowledge /skills with other members of health care teams to promote collaborative practice | | | |
| 12 | A3.8 Present a professional appearance manner | | | |
| **A7 Participate in resource management** | | | | |
| 13 | A7.1 Prioritize workflow to optimize patient outcomes | | | |
| 14 | A7.2 Monitor inventory of materials and supplies | | | |
| **B1 Provide a safe environment to minimize the risk of adverse events to the patient and to staff** | | | | |
| 15 | B1.1 Provide a safe, clean and comfortable environment | | | |
| 16 | B1.2 Transport the patient safely using equipment based on the patients physical and cognitive needs and resources available | | | |
| 17 | B1.3 Transfer the patient safely using equipment and techniques based on the patients physical and cognitive needs | | | |
| 18 | B1.4 Employ proper body mechanics to prevent harm to self and patient | | | |
| 19 | B1.5 Implement immobilization based on age , physical and cognitive status of the patient and type of procedure | | | |
| 20 | B1.6 Adjust the patients position to prevent harm and promote comfort | | | |
| 21 | B1.7 Verify patients identity following standardized protocol | | | |
| 22 | B1.8 Assess documentation for compliance with legal requirements | | | |
| 23 | B1.9 Complete documentation for compliance with regulations | | | |
| B 2 **Interact within the healthcare environment** | | | | |
| 24 | B2.1 Establish patient rapport | | | |
| 25 | B2.2 Use various forms of communication to provide relevant, accurate, and complete information | | | |
| 26 | B2.3 Exchange information regarding details of the procedure with patients and their support persons, to enable them to make informed decisions | | | |
| 27 | B2.4 Assess and Respond to cultural, ethnic, linguistic, religious and socioeconomic variable affecting communication | | | |
| **B3 Perform patient assessments and medical interventions within scope of practice in accordance with provincial regulatory body's legislation requirements.** | | | | |
| 28 | B3.1 Perform patient assessment | | | |

| | Competency | YES | NO | N/A |
|---|---|---|---|---|
| 29 | B3.2 Assess, monitor and respond to various levels of patient status | | | |
| 30 | B3.3 Perform /participate in medical interventions | | | |
| 31 | B3.4 Assess, monitor and respond to the patients therapeutic and supportive devices to ensure patient safety and comfort | | | |
| 32 | B3.5 Ensure the patient's needs are met prior to release from the technologist's care | | | |
| **B4 Implement infection control practices** | | | | |
| 33 | B4.1 Understand transmission mode of nosocomial infections (host, agent and environment) | | | |
| 34 | B4.2 Utilize routine practices for preventing the transmission of infection in health care | | | |
| 35 | B4.3 Apply principles of asepsis | | | |
| 36 | B4.4 Apply protocols when handling and disposing contaminated and biohazard materials such as sharps and body fluids | | | |
| 37 | B4.5 Adhere to protective environment protocols with patients who have compromised immunity | | | |
| 38 | B4.6 Adhere to protocols when caring for patients with antibiotic resistant organisms | | | |
| 39 | B4.7 Adhere to transmission based precautions for airborne , droplet and contact modes of transmission | | | |
| **B5 Respond to patients hygiene needs** | | | | |
| 40 | B5.1 Assist the patient with personal care | | | |
| **C1 Apply MR safety practices with respect to MR screening** | | | | |
| 41 | C1.1 Ensure that the patient screening forms are completed | | | |
| 42 | C1.2 Demonstrate an understanding of the magnetic properties of foreign objects | | | |
| 43 | C1.3 Determine whether foreign objects in /on the patient's body constitute a contraindication to MR | | | |
| 44 | C1.4 Determine exceptions to contraindications during the screening process | | | |
| 45 | C1.5 Determine patient's pregnancy status and take appropriate action | | | |
| 46 | C1.6 Screen MR personnel and support staff | | | |
| 47 | C1.7 Assess and remove any ancillary contraindicated objects from the patient, MR personnel and Support Staff | | | |
| 48 | C1.8 Identify the safety considerations related to the presence of ferromagnetic equipment/accessories (MR compatible or MR safe) in the magnetic field | | | |
| **C2 Apply safety guidelines with respect to MR bio-effects** | | | | |
| 49 | C2.1 Provide hearing protection to the patient and attending individuals. | | | |
| 50 | C2.6 Utilize safe practice in RF coil and equipment cable placement | | | |
| **F1 Perform duties that are common to all MR Imaging Procedures** | | | | |
| 51 | F1.1 Assess documentation for compliance with legal requirements | | | |
| 52 | F1.2 Demonstrate an understanding of related disciplines in order to review data available from images and/or reports of previous studies and procedures | | | |
| 53 | F1.3 Utilize the clinical information provided to adapt the requested exam to the individual patient | | | |
| 54 | F1.4 Ascertain the reasons for the MR examination, given an adequate clinical history | | | |
| 55 | F1.5 Adapt the procedure for the patients physical and cognitive condition | | | |
| 56 | F1.6 Monitor patients therapeutic tubes, lines, and supportive devices | | | |
| 57 | F1.7 Utilize equipment for monitoring patient's condition during the MR procedure | | | |
| 58 | F1.8 Enter and verify patient information into the MR system | | | |
| 59 | F1.9 Activate, monitor and manage the MR acquisition | | | |
| 60 | F1.10 Maintain communication with the patient throughout the examination | | | |
| 61 | F1.12 Assess and monitor the patient's condition | | | |
| 62 | F1.13 Recognize adverse reactions | | | |
| 63 | F1.14 Respond to adverse reactions | | | |
| 64 | F1.15 Monitor vital signs | | | |
| 65 | F1.16 Verify accuracy of patient demographics on the image using respective medium | | | |
| 66 | F1.17 Perform post processing to optimize the digital image | | | |
| 67 | F1.20 Recognize and respond to the need for medical consultation before dismissal of the patient | | | |
| 68 | F1.21 Recommend additional sequences in consultation with the physician | | | |

| | Competency | YES | NO | N/A |
|---|---|---|---|---|
| 69 | F1.22 Ensure the patient's needs are met prior to release from the technologist's care | | | |
| **I1 Perform a Spinal Imaging Procedures** | | | | |
| 70 | I1.1 Understand pathology and anomalies related to the spine | | | |
| 71 | I1.2 Recognize signal characteristics consistent with pathology and anomalies related to the spine | | | |
| 72 | I1.3 Select the appropriate imaging parameters for the spine | | | |
| 73 | I1.4 Evaluate image quality | | | |
| 74 | I1.5 Evaluate image artifacts and take appropriate action | | | |
| 75 | I1.6 Evaluate the effects of changing imaging parameters and options on the image quality | | | |
| 76 | I1.7 Evaluate the effects of changing imaging parameters and options on the scan time | | | |
| 77 | I1.8 Evaluate the effects of changing imaging parameters and options on the anatomical coverage | | | |
| 78 | i1.9 Evaluate the effects of changing imaging parameters and options on the pathological visualization | | | |
| 79 | I1.10 Evaluate the effects of changing imaging parameters and options on the SAR reduction techniques | | | |
| 80 | I1.11 Understand the use of advanced imaging techniques | | | |
| **I5/G10 Perform sacral spine/SI joints imaging procedure** | | | | |
| 81 | I 5/G10.1 Understand gross anatomy , cross sectional anatomy and physiology to the sacral spine/SI joints | | | |
| 82 | I5/G10.2 Select the optimal coil to image the sacral spine/SI joints spine | | | |
| 83 | I5./G10 3 Prepare the patient for a sacral spine/SI joints spine imaging procedure based on the requested protocol and the patients physical and cognitive status | | | |
| 84 | I5/G10 .4 Position the patient and coil using anatomical landmark and relational anatomy | | | |
| 85 | I5/G10.5 Landmark the sacral spine/SI joints to the positioning light and advance the patient to isocenter | | | |
| 86 | I5/G10.6 Select the optimal imaging plane for the part being examined | | | |
| 87 | I5/G10.7 Determine and select the appropriate pulse sequences for optimal visualization of the sacral spine/S Joints | | | |
| 88 | I5/G10.8 Consider patient related factors when modifying imaging planes and sequences to achieve optimal visualization of the sacral spine/S Joints | | | |
| 89 | I5/G10.9 Optimize imaging parameters for the sacral spine/SI joints | | | |
| 90 | I5/G10.10 Select the optimal imaging options for each pulse sequence for the sacral spine/Joints | | | |
| 91 | I5/G10.11 Determine the limit and extent of image coverage for the sacral spine/Joints | | | |
| | **Total** | | | |

Total:

$$\frac{\text{(\# of YES)}}{91 - \text{(\# of N/A)}} = \frac{\quad}{\quad} = \quad \%$$

Must attain a minimum of 60 % to achieve satisfactory results

The evaluating Technologist reserves the right to fail the student regardless of the number of "No's" if there was a critical error.
Example: the exam was done perfectly but the patient had a pacemaker.

_____
Student Signature Date

_____
Evaluators Signature Date

# Competency Module J: Abdomen

FANSHAWE
Faculty of Health Sciences
& Human Services

## Modules A, B, C, F, and J: Clinical Competency Evaluation: Liver **Attempt** ___

Patient number _____Date of Competency_____

| | Competency | YES | NO | N/A |
|---|---|---|---|---|
| **A1 Demonstrates critical thinking** | | | | |
| 1 | A1.1 Apply critical thinking and problem solving strategies to ensure best practices | | | |
| **A2 Practice in accordance with legislation, regulations and ethical guidelines related to the profession** | | | | |
| 2 | A2.1 Practice patient care that protects the patient's legal rights | | | |
| 3 | A2.3 Perform all duties in compliance with sexual abuse prevention guidelines | | | |
| 4 | A2.4 Practice in accordance with national associations/provincial regulatory body's code of ethics | | | |
| 5 | A2.5 Practice within scope of practice in accordance regulatory body legislation requirements | | | |
| 6 | A2.6 Practice in accordance with regulatory body standards of practice | | | |
| 7 | A2.7 Practice in accordance with legislation regulations/ By- laws regulating medical radiation technologists | | | |
| **A3 Demonstrate professional behaviours** | | | | |
| 8 | A3.1 Demonstrate respect and sensitivity in both patient and professional interactions | | | |
| 9 | A3.2 Utilize stress management techniques | | | |
| 10 | A3.3 Utilize conflict management techniques | | | |
| 11 | A3.5 Exchange knowledge /skills with other members of health care teams to promote collaborative practice | | | |
| 12 | A3.8 Present a professional appearance manner | | | |
| | **A7 Participate in resource management** | | | |
| 13 | A7.1 Prioritize workflow to optimize patient outcomes | | | |
| 14 | A7.2 Monitory inventory of materials and supplies | | | |
| **B1 Provide a safe environment to minimize the risk of adverse events to the patient and to staff** | | | | |
| 15 | B1.1 Provide a safe, clean and comfortable environment | | | |
| 16 | B1.2 Transport the patient safely using equipment based on the patients physical and cognitive needs and resources available | | | |
| 17 | B1.3 Transfer the patient safely using equipment and techniques based on the patients physical and cognitive needs | | | |
| 18 | B1.4 Employ proper body mechanics to prevent harm to self and patient | | | |
| 19 | B1.5 Implement immobilization based on age , physical and cognitive status of the patient and type of procedure | | | |
| 20 | B1.6 Adjust the patients position to prevent harm and promote comfort | | | |
| 21 | B1.7 Verify patients identity following standardized protocol | | | |
| 22 | B1.8 Assess documentation for compliance with legal requirements | | | |
| 23 | B1.9 Complete documentation for compliance with regulations | | | |
| | **B 2 Interact within the healthcare environment** | | | |
| 24 | B2.1 Establish patient rapport | | | |
| 25 | B2.2 Use various forms of communication to provide relevant, accurate, and complete information | | | |
| 26 | B2.3 Exchange information regarding details of the procedure with patients and their support persons, to enable them to make informed decisions | | | |
| 27 | B2.4 Assess and Respond to cultural, ethnic, linguistic, religious and socioeconomic variable affecting communication | | | |
| **B3 Perform patient assessments and medical interventions within scope of practice in accordance with provincial regulatory body's legislation requirements.** | | | | |
| 28 | B3.1 Perform patient assessment | | | |
| 29 | B3.2 Assess, monitor and respond to various levels of patient status | | | |
| 30 | B3.3 Perform /participate in medical interventions | | | |
| 31 | B3.4 Assess, monitor and respond to the patients therapeutic and supportive devices to ensure patient safety and comfort | | | |
| 32 | B3.5 Ensure the patient's needs are met prior to release from the technologist's care | | | |

| | Competency | YES | NO | N/A |
|---|---|---|---|---|
| **B4 Implement infection control practices** | | | | |
| 33 | B4.1 Understand transmission mode of nosocomial infections (host, agent and environment) | | | |
| 34 | B4.2 Utilize routine practices for preventing the transmission of infection in health care | | | |
| 35 | B4.3 Apply principles of asepsis | | | |
| 36 | B4.4 Apply protocols when handling and disposing contaminated and biohazard materials such as sharps and body fluids | | | |
| 37 | B4.5 Adhere to protective environment protocols with patients who have compromised immunity | | | |
| 38 | B4.6 Adhere to protocols when caring for patients with antibiotic resistant organisms | | | |
| 39 | B4.7 Adhere to transmission based precautions for airborne , droplet and contact modes of transmission | | | |
| **B5 Respond to patients hygiene needs** | | | | |
| 40 | B5.1 Assist the patient with personal care | | | |
| **C1 Apply MR safety practices with respect to MR screening** | | | | |
| 41 | C1.1 Ensure that the patient screening forms are completed | | | |
| 42 | C 1.2 Demonstrate an understanding of the magnetic properties of foreign objects | | | |
| 43 | C1.3 Determine whether foreign objects in /on the patient's body constitute a contraindication to MR | | | |
| 44 | C1.4 Determine exceptions to contraindications during the screening process | | | |
| 45 | C1.5 Determine patient's pregnancy status and take appropriate action | | | |
| 46 | C1.6 Screen MR personnel and support staff | | | |
| 47 | C1.7 Assess and remove any ancillary contraindicated objects from the patient, MR personnel and Support Staff | | | |
| 48 | C1.8 Identify the safety considerations related to the presence of ferromagnetic equipment/accessories (MR compatible or MR safe) in the magnetic field | | | |
| **C2 Apply safety guidelines with respect to MR bio-effects** | | | | |
| 49 | C2.1 Provide hearing protection to the patient and attending individuals. | | | |
| 50 | C2.6 Utilize safe practice in RF coil and equipment cable placement | | | |
| **F1 Perform duties that are common to all MR Imaging Procedures** | | | | |
| 51 | F1.1 Assess documentation for compliance with legal requirements | | | |
| 52 | F 1.2 Demonstrate an understanding of related disciplines in order to review data available from images and/or reports of previous studies and procedures | | | |
| 53 | F1.3 Utilize the clinical information provided to adapt the requested exam to the individual patient | | | |
| 54 | F1.4 Ascertain the reasons for the MR examination, given an adequate clinical history | | | |
| 55 | F1.5 Adapt the procedure for the patients physical and cognitive condition | | | |
| 56 | F1.6 Monitor patients therapeutic tubes, lines, and supportive devices | | | |
| 57 | F1.7 Utilize equipment for monitoring patient's condition during the MR procedure | | | |
| 58 | F1.8 Enter and verify patient information into the MR system | | | |
| 59 | F1.9 Activate, monitor and manage the MR acquisition | | | |
| 60 | F1.10 Maintain communication with the patient throughout the examination | | | |
| 61 | F1.11 Prepare for the administration of contrast media | | | |
| 62 | F1.12 Assess and monitor the patient's condition | | | |
| 63 | F1.13 Recognize adverse reactions | | | |
| 64 | F1.14 Respond to adverse reactions | | | |
| 65 | F1.15 Monitor vital signs | | | |
| 66 | F1.16 Verify accuracy of patient demographics on the image using respective medium | | | |
| 67 | F1.17 Perform post processing to optimize the digital image | | | |
| 68 | F1.20 Recognize and respond to the need for medical consultation before dismissal of the patient | | | |
| 69 | F1.21 Recommend additional sequences in consultation with the physician | | | |
| 70 | F1.22 Ensure the patient's needs are met prior to release from the technologist's care | | | |
| **J1 Perform abdomen Imaging Procedures** | | | | |
| 71 | J 1.1 Understand pathology and anomalies related to the abdomen | | | |
| 72 | J1.2 Recognize signal characteristics consistent with pathology and anomalies related to the abdomen | | | |

| | Competency | YES | NO | N/A |
|---|---|---|---|---|
| 73 | J1.3 Select the appropriate imaging parameters for the abdomen | | | |
| 74 | J1.4 Evaluate image quality | | | |
| 75 | J1.5 Evaluate image artifacts and take appropriate action | | | |
| 76 | J1.6 Evaluate the effects of changing imaging parameters and options on the image quality | | | |
| 77 | J1.7 Evaluate the effects of changing imaging parameters and options on the scan time | | | |
| 78 | J1.8 Evaluate the effects of changing imaging parameters and options on the anatomical coverage | | | |
| 79 | J1.9 Evaluate the effects of changing imaging parameters and options on the pathological visualization | | | |
| 80 | J1.10 Evaluate the effects of changing imaging parameters and options on the SAR reduction techniques | | | |
| | J1.11 Understand the use of advanced imaging techniques | | | |
| **J2 Perform Liver imaging procedures** | | | | |
| 81 | J2.1 Understand gross anatomy, cross sectional anatomy, physiology of the liver | | | |
| 82 | J3.2 Select the optimal coil to image the liver | | | |
| 83 | J 3.3 Prepare the patient for a liver imaging procedure based on the requested protocol and the patients physical and cognitive status | | | |
| 84 | J3.4 Position the patient and coil using anatomical landmark and relational anatomy | | | |
| 85 | J3.5 Landmark the liver to the positioning light and advance the patient to isocenter | | | |
| 86 | J3.6 Select the optimal imaging plane for the liver | | | |
| 87 | J3.7 Determine and select the appropriate pulse sequences for optimal visualization of the liver | | | |
| 88 | J3.8 Consider patient related factors when modifying imaging planes and sequences to achieve optimal visualization of the liver | | | |
| 89 | J3.9 Optimize imaging parameters for the liver | | | |
| 90 | J3.10 Select the optimal imaging options for each pulse sequence for the liver | | | |
| 91 | J3.11 Determine the limit and extent of image coverage for the liver | | | |
| | **Total** | | | |

Total:

$$\frac{\text{(\# of YES)}}{91 - \text{(\# of N/A)}} = \frac{\quad}{\quad} = \quad \%$$

Must attain a minimum of 60 % to achieve satisfactory results

The evaluating Technologist reserves the right to fail the student regardless of the number of “No’s” if there was a critical error.
Example: the exam was done perfectly but the patient had a pacemaker.

_____
Student Signature Date

_____
Evaluators Signature Date

## Modules A, B, C, F, J: Clinical Competency Evaluation: MRCP Attempt ____

**Patient number** _____**Date of Competency**_____

| | Competency | YES | NO | N/A |
|---|---|---|---|---|
| **A1 Demonstrates critical thinking** | | | | |
| 1 | A1.1 Apply critical thinking and problem solving strategies to ensure best practices | | | |
| | **A2 Practice in accordance with legislation, regulations and ethical guidelines related to the profession** | | | |
| 2 | A2.1 Practice patient care that protects the patient's legal rights | | | |
| 3 | A2.3 Perform all duties in compliance with sexual abuse prevention guidelines | | | |
| 4 | A2.4 Practice in accordance with national associations/provincial regulatory body's code of ethics | | | |
| 5 | A2.5 Practice within scope of practice in accordance regulatory body legislation requirements | | | |
| 6 | A2.6 Practice in accordance with regulatory body standards of practice | | | |
| 7 | A2.7 Practice in accordance with legislation regulations/ By- laws regulating medical radiation technologists | | | |
| **A3 Demonstrate professional behaviours** | | | | |
| 8 | A3.1 Demonstrate respect and sensitivity in both patient and professional interactions | | | |
| 9 | A3.2 Utilize stress management techniques | | | |
| 10 | A3.3 Utilize conflict management techniques | | | |
| 11 | A3.5 Exchange knowledge /skills with other members of health care teams to promote collaborative practice | | | |
| 12 | A7 Participate in resource management | | | |
| | A7.1 Prioritize workflow to optimize patient outcomes | | | |
| 13 | A7.2 Monitor inventory of materials and supplies | | | |
| 14 | A3.8 Present a professional appearance manner | | | |
| **B1 Provide a safe environment to minimize the risk of adverse events to the patient and to staff** | | | | |
| 15 | B1.1 Provide a safe, clean and comfortable environment | | | |
| 16 | B1.2 Transport the patient safely using equipment based on the patients physical and cognitive needs and resources available | | | |
| 17 | B1.3 Transfer the patient safely using equipment and techniques based on the patients physical and cognitive needs | | | |
| 18 | B1.4 Employ proper body mechanics to prevent harm to self and patient | | | |
| 19 | B1.5 Implement immobilization based on age , physical and cognitive status of the patient and type of procedure | | | |
| 20 | B1.6 Adjust the patients position to prevent harm and promote comfort | | | |
| 21 | B1.7 Verify patients identity following standardized protocol | | | |
| 22 | B1.8 Assess documentation for compliance with legal requirements | | | |
| 23 | B1.9 Complete documentation for compliance with regulations | | | |
| **B 2 Interact within the healthcare environment** | | | | |
| 24 | B2.1 Establish patient rapport | | | |
| 25 | B2.2 Use various forms of communication to provide relevant, accurate, and complete information | | | |
| 26 | B2.3 Exchange information regarding details of the procedure with patients and their support persons, to enable them to make informed decisions | | | |
| 27 | B2.4 Assess and Respond to cultural, ethnic, linguistic, religious and socioeconomic variable affecting communication | | | |
| **B3 Perform patient assessments and medical interventions within scope of practice in accordance with provincial regulatory body's legislation requirements.** | | | | |
| 28 | B3.1 Perform patient assessment | | | |
| 29 | B3.2 Assess, monitor and respond to various levels of patient status | | | |
| 30 | B3.3 Perform /participate in medical interventions | | | |
| 31 | B3.4 Assess, monitor and respond to the patients therapeutic and supportive devices to ensure patient safety and comfort | | | |
| 32 | B3.5 Ensure the patient's needs are met prior to release from the technologist's care | | | |
| | **B4 Implement infection control practices** | | | |

| | Competency | YES | NO | N/A |
|---|---|---|---|---|
| 33 | B4.1 Understand transmission mode of nosocomial infections (host, agent and environment) | | | |
| 34 | B4.2 Utilize routine practices for preventing the transmission of infection in health care | | | |
| 35 | B4.3 Apply principles of asepsis | | | |
| 36 | B4.4 Apply protocols when handling and disposing contaminated and biohazard materials such as sharps and body fluids | | | |
| 37 | B4.5 Adhere to protective environment protocols with patients who have compromised immunity | | | |
| 38 | B4.6 Adhere to protocols when caring for patients with antibiotic resistant organisms | | | |
| 39 | B4.7 Adhere to transmission based precautions for airborne , droplet and contact modes of transmission | | | |
| **B5 Respond to patients hygiene needs** | | | | |
| 40 | B5.1 Assist the patient with personal care | | | |
| **C1 Apply MR safety practices with respect to MR screening** | | | | |
| 41 | C1.1 Ensure that the patient screening forms are completed | | | |
| 42 | C 1.2 Demonstrate an understanding of the magnetic properties of foreign objects | | | |
| 43 | C1.3 Determine whether foreign objects in /on the patient's body constitute a contraindication to MR | | | |
| 44 | C1.4 Determine exceptions to contraindications during the screening process | | | |
| 45 | C1.5 Determine patient's pregnancy status and take appropriate action | | | |
| 46 | C1.6 Screen MR personnel and support staff | | | |
| 47 | C1.7 Assess and remove any ancillary contraindicated objects from the patient, MR personnel and Support Staff | | | |
| 48 | C1.8 Identify the safety considerations related to the presence of ferromagnetic equipment/accessories (MR compatible or MR safe) in the magnetic field | | | |
| **C2 Apply safety guidelines with respect to MR bio-effects** | | | | |
| 49 | C2.1 Provide hearing protection to the patient and attending individuals. | | | |
| 50 | C2.6 Utilize safe practice in RF coil and equipment cable placement | | | |
| **F1 Perform duties that are common to all MR Imaging Procedures** | | | | |
| 51 | F1.1 Assess documentation for compliance with legal requirements | | | |
| 52 | F1.3 Utilize the clinical information provided to adapt the requested exam to the individual patient | | | |
| 53 | F 1.2 Demonstrate an understanding of related disciplines in order to review data available from images and/or reports of previous studies and procedures | | | |
| 54 | F1.4 Ascertain the reasons for the MR examination, given an adequate clinical history | | | |
| 55 | F1.5 Adapt the procedure for the patients physical and cognitive condition | | | |
| 56 | F1.6 Monitor patients therapeutic tubes, lines, and supportive devices | | | |
| 57 | F1.7 Utilize equipment for monitoring patient's condition during the MR procedure | | | |
| 58 | F1.8 Enter and verify patient information into the MR system | | | |
| 59 | F1.9 Activate, monitor and manage the MR acquisition | | | |
| 60 | F1.10 Maintain communication with the patient throughout the examination | | | |
| 61 | F1.11 Prepare for the administration of contrast media | | | |
| 62 | F1.12 Assess and monitor the patient's condition | | | |
| 63 | F1.13 Recognize adverse reactions | | | |
| 64 | F1.14 Respond to adverse reactions | | | |
| 65 | F1.15 Monitor vital signs | | | |
| 66 | F1.16 Verify accuracy of patient demographics on the image using respective medium | | | |
| 67 | F1.17 Perform post processing to optimize the digital image | | | |
| 68 | F1.20 Recognize and respond to the need for medical consultation before dismissal of the patient | | | |
| 69 | F1.21 Recommend additional sequences in consultation with the physician | | | |
| 70 | F1.22 Ensure the patient's needs are met prior to release from the technologist's care | | | |
| **J1 Perform abdomen Imaging Procedures** | | | | |
| 71 | J 1.1 Understand pathology and anomalies related to the abdomen | | | |
| 72 | J1.2 Recognize signal characteristics consistent with pathology and anomalies related to the abdomen | | | |
| 73 | J1.3 Select the appropriate imaging parameters for the abdomen | | | |

| | Competency | YES | NO | N/A |
|---|---|---|---|---|
| 74 | J1.4 Evaluate image quality | | | |
| 75 | J1.5 Evaluate image artifacts and take appropriate action | | | |
| 76 | J1.6 Evaluate the effects of changing imaging parameters and options on the image quality | | | |
| 77 | J1.7 Evaluate the effects of changing imaging parameters and options on the scan time | | | |
| 78 | J1.8 Evaluate the effects of changing imaging parameters and options on the anatomical coverage | | | |
| 79 | J1.9 Evaluate the effects of changing imaging parameters and options on the pathological visualization | | | |
| 80 | J1.10 Evaluate the effects of changing imaging parameters and options on the SAR reduction techniques | | | |
| 81 | J1.11 Understand the use of advanced imaging techniques | | | |
| **J3 Perform gall bladder/biliary tree imaging procedures** | | | | |
| 82 | J3.1 Understand gross anatomy, cross sectional anatomy, physiology of the gallbladder/biliary tree | | | |
| 83 | J 3.2 Select the optimal coil to image the gallbladder/biliary tree | | | |
| 84 | J 3.3 Prepare the patient for a gallbladder/biliary tree imaging procedure based on the requested protocol and the patients physical and cognitive status | | | |
| 85 | J3.4 Position the patient and coil using anatomical landmark and relational anatomy | | | |
| 86 | JI3.5 Landmark the gallbladder/biliary tree to the positioning light and advance the patient to isocenter | | | |
| 87 | J3.6 Select the optimal imaging plane for the gallbladder/biliary tree | | | |
| 88 | J3.7 Determine and select the appropriate pulse sequences for optimal visualization of the gallbladder/biliary tree | | | |
| 89 | J3.8 Consider patient related factors when modifying imaging planes and sequences to achieve optimal visualization of the gallbladder/biliary tree | | | |
| 90 | J3.9 Optimize imaging parameters for the gallbladder/biliary tree | | | |
| 91 | J3.10 Select the optimal imaging options for each pulse sequence for the gallbladder/biliary tree | | | |
| 92 | J3.11 Determine the limit and extent of image coverage for the gallbladder/biliary tree | | | |
| | **Total** | | | |

Total:

$$\frac{\text{(\# of YES)}}{92 - \text{(\# of N/A)}} = \frac{\quad}{\quad} = \quad \%$$

Must attain a minimum of 60 % to achieve satisfactory results

The evaluating Technologist reserves the right to fail the student regardless of the number of “No’s” if there was a critical error.
Example: the exam was done perfectly but the patient had a pacemaker.

_____
Student Signature Date

_____
Evaluators Signature Date

## Modules A, B, C, F, J: Clinical Competency Evaluation: Pancreas Attempt ____

**Patient number** _____**Date of Competency**_____

| | Competency | YES | NO | N/A |
|---|---|---|---|---|
| **A1 Demonstrates critical thinking** | | | | |
| 1 | A1.1 Apply critical thinking and problem solving strategies to ensure best practices | | | |
| **A2 Practice in accordance with legislation, regulations and ethical guidelines related to the profession** | | | | |
| 2 | A2.1 Practice patient care that protects the patient's legal rights | | | |
| 3 | A2.3 Perform all duties in compliance with sexual abuse prevention guidelines | | | |
| 4 | A2.4 Practice in accordance with national associations/provincial regulatory body's code of ethics | | | |
| 5 | A2.5 Practice within scope of practice in accordance regulatory body legislation requirements | | | |
| 6 | A2.6 Practice in accordance with regulatory body standards of practice | | | |
| 7 | A2.7 Practice in accordance with legislation regulations/ By- laws regulating medical radiation technologists | | | |
| **A3 Demonstrate professional behaviours** | | | | |
| 8 | A3.1 Demonstrate respect and sensitivity in both patient and professional interactions | | | |
| 9 | A3.2 Utilize stress management techniques | | | |
| 10 | A3.3 Utilize conflict management techniques | | | |
| 11 | A3.5 Exchange knowledge /skills with other members of health care teams to promote collaborative practice | | | |
| 12 | A3.8 Present a professional appearance manner | | | |
| | **A7 Participate in resource management** | | | |
| 13 | A7.1 Prioritize workflow to optimize patient outcomes | | | |
| 14 | A7.2 Monitory inventory of materials and supplies | | | |
| **B1 Provide a safe environment to minimize the risk of adverse events to the patient and to staff** | | | | |
| 15 | B1.1 Provide a safe, clean and comfortable environment | | | |
| 16 | B1.2 Transport the patient safely using equipment based on the patients physical and cognitive needs and resources available | | | |
| 17 | B1.3 Transfer the patient safely using equipment and techniques based on the patients physical and cognitive needs | | | |
| 18 | B1.4 Employ proper body mechanics to prevent harm to self and patient | | | |
| 19 | B1.5 Implement immobilization based on age , physical and cognitive status of the patient and type of procedure | | | |
| 20 | B1.6 Adjust the patients position to prevent harm and promote comfort | | | |
| 21 | B1.7 Verify patients identity following standardized protocol | | | |
| 22 | B1.8 Assess documentation for compliance with legal requirements | | | |
| 23 | B1.9 Complete documentation for compliance with regulations | | | |
| **B 2 Interact within the healthcare environment** | | | | |
| 24 | B2.1 Establish patient rapport | | | |
| 25 | B2.2 Use various forms of communication to provide relevant, accurate, and complete information | | | |
| 26 | B2.3 Exchange information regarding details of the procedure with patients and their support persons, to enable them to make informed decisions | | | |
| 27 | B2.4 Assess and Respond to cultural, ethnic, linguistic, religious and socioeconomic variable affecting communication | | | |
| **B3 Perform patient assessments and medical interventions within scope of practice in accordance with provincial regulatory body's legislation requirements.** | | | | |
| 28 | B3.1 Perform patient assessment | | | |
| 29 | B3.2 Assess, monitor and respond to various levels of patient status | | | |
| 30 | B3.3 Perform /participate in medical interventions | | | |
| 31 | B3.4 Assess, monitor and respond to the patients therapeutic and supportive devices to ensure patient safety and comfort | | | |
| 32 | B3.5 Ensure the patient's needs are met prior to release from the technologist's care | | | |

| | Competency | YES | NO | N/A |
|---|---|---|---|---|
| **B4 Implement infection control practices** | | | | |
| 33 | B4.1 Understand transmission mode of nosocomial infections (host, agent and environment) | | | |
| 34 | B4.2 Utilize routine practices for preventing the transmission of infection in health care | | | |
| 35 | B4.3 Apply principles of asepsis | | | |
| 36 | B4.4 Apply protocols when handling and disposing contaminated and biohazard materials such as sharps and body fluids | | | |
| 37 | B4.5 Adhere to protective environment protocols with patients who have compromised immunity | | | |
| 38 | B4.6 Adhere to protocols when caring for patients with antibiotic resistant organisms | | | |
| 39 | B4.7 Adhere to transmission based precautions for airborne , droplet and contact modes of transmission | | | |
| **B5 Respond to patients hygiene needs** | | | | |
| 40 | B5.1 Assist the patient with personal care | | | |
| **C1 Apply MR safety practices with respect to MR screening** | | | | |
| 41 | C1.1 Ensure that the patient screening forms are completed | | | |
| 42 | C 1.2 Demonstrate an understanding of the magnetic properties of foreign objects | | | |
| 43 | C1.3 Determine whether foreign objects in /on the patient's body constitute a contraindication to MR | | | |
| 44 | C1.4 Determine exceptions to contraindications during the screening process | | | |
| 45 | C1.5 Determine patient's pregnancy status and take appropriate action | | | |
| 46 | C1.6 Screen MR personnel and support staff | | | |
| 47 | C1.7 Assess and remove any ancillary contraindicated objects from the patient, MR personnel and Support Staff | | | |
| 48 | C1.8 Identify the safety considerations related to the presence of ferromagnetic equipment/accessories (MR compatible or MR safe) in the magnetic field | | | |
| **C2 Apply safety guidelines with respect to MR bio-effects** | | | | |
| 49 | C2.1 Provide hearing protection to the patient and attending individuals. | | | |
| 50 | C2.6 Utilize safe practice in RF coil and equipment cable placement | | | |
| **F1 Perform duties that are common to all MR Imaging Procedures** | | | | |
| 51 | F1.1 Assess documentation for compliance with legal requirements | | | |
| 52 | F1.2 Demonstrate an understanding of related disciplines in order to review data available from images and/or reports of previous studies and procedures | | | |
| 53 | F1.3 Utilize the clinical information provided to adapt the requested exam to the individual patient | | | |
| 54 | F1.4 Ascertain the reasons for the MR examination, given an adequate clinical history | | | |
| 55 | F1.5 Adapt the procedure for the patients physical and cognitive condition | | | |
| 56 | F1.6 Monitor patients therapeutic tubes, lines, and supportive devices | | | |
| 57 | F1.7 Utilize equipment for monitoring patient's condition during the MR procedure | | | |
| 58 | F1.8 Enter and verify patient information into the MR system | | | |
| 59 | F1.9 Activate, monitor and manage the MR acquisition | | | |
| 60 | F1.10 Maintain communication with the patient throughout the examination | | | |
| 61 | F1.11 Prepare for the administration of contrast media | | | |
| 62 | F1.12 Assess and monitor the patient's condition | | | |
| 63 | F1.13 Recognize adverse reactions | | | |
| 64 | F1.14 Respond to adverse reactions | | | |
| 65 | F1.15 Monitor vital signs | | | |
| 66 | F1.16 Verify accuracy of patient demographics on the image using respective medium | | | |
| 67 | F1.17 Perform post processing to optimize the digital image | | | |
| 68 | F1.20 Recognize and respond to the need for medical consultation before dismissal of the patient | | | |
| 69 | F1.21 Recommend additional sequences in consultation with the physician | | | |
| 70 | F1.22 Ensure the patient's needs are met prior to release from the technologist's care | | | |
| **J1 Perform abdomen Imaging Procedures** | | | | |
| 71 | J 1.1 Understand pathology and anomalies related to the abdomen | | | |
| 72 | J1.2 Recognize signal characteristics consistent with pathology and anomalies related to the abdomen | | | |

| | Competency | YES | NO | N/A |
|---|---|---|---|---|
| 73 | J1.3 Select the appropriate imaging parameters for the abdomen | | | |
| 74 | J1.4 Evaluate image quality | | | |
| 75 | J1.5 Evaluate image artifacts and take appropriate action | | | |
| 76 | J1.6 Evaluate the effects of changing imaging parameters and options on the image quality | | | |
| 77 | J1.7 Evaluate the effects of changing imaging parameters and options on the scan time | | | |
| 78 | J1.8 Evaluate the effects of changing imaging parameters and options on the anatomical coverage | | | |
| 79 | J1.9 Evaluate the effects of changing imaging parameters and options on the pathological visualization | | | |
| 80 | J1.10 Evaluate the effects of changing imaging parameters and options on the SAR reduction techniques | | | |
| 81 | J1.11 Understand the use of advanced imaging techniques | | | |
| **J4 Perform a pancreas imaging procedure** | | | | |
| 82 | J4.1 Understand gross anatomy, cross sectional anatomy, physiology of the pancreas | | | |
| 83 | J 4.2 Select the optimal coil to image the pancreas | | | |
| 84 | J 3.3 Prepare the patient for a pancreas imaging procedure based on the requested protocol and the patients physical and cognitive status | | | |
| 85 | J4.4 Position the patient and coil using anatomical landmark and relational anatomy | | | |
| 86 | J4.5 Landmark the pancreas to the positioning light and advance the patient to isocenter | | | |
| 87 | J4.6 Select the optimal imaging plane for the pancreas | | | |
| 88 | J4.7 Determine and select the appropriate pulse sequences for optimal visualization of the pancreas | | | |
| 89 | J4.8 Consider patient related factors when modifying imaging planes and sequences to achieve optimal visualization of the pancreas | | | |
| 90 | J4.9 Optimize imaging parameters for the pancreas | | | |
| 91 | J4.10 Select the optimal imaging options for each pulse sequence for the pancreas | | | |
| 92 | J4.11 Determine the limit and extent of image coverage for the pancreas | | | |
| | **Total** | | | |

Total:

$$\frac{\text{(\# of YES)}}{92 - \text{(\# of N/A)}} = \frac{\quad}{\quad} = \quad \%$$

Must attain a minimum of 60 % to achieve satisfactory results

The evaluating Technologist reserves the right to fail the student regardless of the number of “No’s” if there was a critical error.
Example: the exam was done perfectly but the patient had a pacemaker.

_____
Student Signature Date

_____
Evaluators Signature Date

## Modules A, B, C, F, J Clinical Competency Evaluation: Kidneys Attempt ____

**Patient number** _____**Date of Competency**_____

| | Competency | YES | NO | N/A |
|---|---|---|---|---|
| **A1 Demonstrates critical thinking** | | | | |
| 1 | A1.1 Apply critical thinking and problem solving strategies to ensure best practices | | | |
| **A2 Practice in accordance with legislation, regulations and ethical guidelines related to the profession** | | | | |
| 2 | A2.1 Practice patient care that protects the patient's legal rights | | | |
| 3 | A2.3 Perform all duties in compliance with sexual abuse prevention guidelines | | | |
| 4 | A2.4 Practice in accordance with national associations/provincial regulatory body's code of ethics | | | |
| 5 | A2.5 Practice within scope of practice in accordance regulatory body legislation requirements | | | |
| 6 | A2.6 Practice in accordance with regulatory body standards of practice | | | |
| 7 | A2.7 Practice in accordance with legislation regulations/ By- laws regulating medical radiation technologists | | | |
| **A3 Demonstrate professional behaviours** | | | | |
| 8 | A3.1 Demonstrate respect and sensitivity in both patient and professional interactions | | | |
| 9 | A3.2 Utilize stress management techniques | | | |
| 10 | A3.3 Utilize conflict management techniques | | | |
| 11 | A3.5 Exchange knowledge /skills with other members of health care teams to promote collaborative practice | | | |
| 12 | A3.8 Present a professional appearance manner | | | |
| **A7 Participate in resource management** | | | | |
| 13 | A7.1 Prioritize workflow to optimize patient outcomes | | | |
| 14 | A7.2 Monitor inventory of materials and supplies | | | |
| **B1 Provide a safe environment to minimize the risk of adverse events to the patient and to staff** | | | | |
| 15 | B1.1 Provide a safe, clean and comfortable environment | | | |
| 16 | B1.2 Transport the patient safely using equipment based on the patients physical and cognitive needs and resources available | | | |
| 17 | B1.3 Transfer the patient safely using equipment and techniques based on the patients physical and cognitive needs | | | |
| 18 | B1.4 Employ proper body mechanics to prevent harm to self and patient | | | |
| 19 | B1.5 Implement immobilization based on age , physical and cognitive status of the patient and type of procedure | | | |
| 20 | B1.6 Adjust the patients position to prevent harm and promote comfort | | | |
| 21 | B1.7 Verify patients identity following standardized protocol | | | |
| 22 | B1.8 Assess documentation for compliance with legal requirements | | | |
| 23 | B1.9 Complete documentation for compliance with regulations | | | |
| **B 2 Interact within the healthcare environment** | | | | |
| 24 | B2.1 Establish patient rapport | | | |
| 25 | B2.2 Use various forms of communication to provide relevant, accurate, and complete information | | | |
| 26 | B2.3 Exchange information regarding details of the procedure with patients and their support persons, to enable them to make informed decisions | | | |
| 27 | B2.4 Assess and Respond to cultural, ethnic, linguistic, religious and socioeconomic variable affecting communication | | | |
| **B3 Perform patient assessments and medical interventions within scope of practice in accordance with provincial regulatory body's legislation requirements.** | | | | |
| 28 | B3.1 Perform patient assessment | | | |
| 29 | B3.2 Assess, monitor and respond to various levels of patient status | | | |
| 30 | B3.3 Perform /participate in medical interventions | | | |
| 31 | B3.4 Assess, monitor and respond to the patients therapeutic and supportive devices to ensure patient safety and comfort | | | |
| 32 | B3.5 Ensure the patient's needs are met prior to release from the technologist's care | | | |

| | Competency | YES | NO | N/A |
|---|---|---|---|---|
| **B4 Implement infection control practices** | | | | |
| 33 | B4.1 Understand transmission mode of nosocomial infections (host, agent and environment) | | | |
| 34 | B4.2 Utilize routine practices for preventing the transmission of infection in health care | | | |
| 35 | B4.3 Apply principles of asepsis | | | |
| 36 | B4.4 Apply protocols when handling and disposing contaminated and biohazard materials such as sharps and body fluids | | | |
| 37 | B4.5 Adhere to protective environment protocols with patients who have compromised immunity | | | |
| 38 | B4.6 Adhere to protocols when caring for patients with antibiotic resistant organisms | | | |
| 39 | B4.7 Adhere to transmission based precautions for airborne , droplet and contact modes of transmission | | | |
| **B5 Respond to patients hygiene needs** | | | | |
| 40 | B5.1 Assist the patient with personal care | | | |
| **C1 Apply MR safety practices with respect to MR screening** | | | | |
| 41 | C1.1 Ensure that the patient screening forms are completed | | | |
| 42 | C 1.2 Demonstrate an understanding of the magnetic properties of foreign objects | | | |
| 43 | C1.3 Determine whether foreign objects in /on the patient's body constitute a contraindication to MR | | | |
| 44 | C1.4 Determine exceptions to contraindications during the screening process | | | |
| 45 | C1.5 Determine patient's pregnancy status and take appropriate action | | | |
| 46 | C1.6 Screen MR personnel and support staff | | | |
| 47 | C1.7 Assess and remove any ancillary contraindicated objects from the patient, MR personnel and Support Staff | | | |
| 48 | C1.8 Identify the safety considerations related to the presence of ferromagnetic equipment/accessories (MR compatible or MR safe) in the magnetic field | | | |
| **C2 Apply safety guidelines with respect to MR bio-effects** | | | | |
| 49 | C2.1 Provide hearing protection to the patient and attending individuals. | | | |
| 50 | C2.6 Utilize safe practice in RF coil and equipment cable placement | | | |
| **F1 Perform duties that are common to all MR Imaging Procedures** | | | | |
| 51 | F1.1 Assess documentation for compliance with legal requirements | | | |
| 52 | F 1.2 Demonstrate an understanding of related disciplines in order to review data available from images and/or reports of previous studies and procedures | | | |
| 53 | F1.3 Utilize the clinical information provided to adapt the requested exam to the individual patient | | | |
| 54 | F1.4 Ascertain the reasons for the MR examination, given an adequate clinical history | | | |
| 55 | F1.5 Adapt the procedure for the patients physical and cognitive condition | | | |
| 56 | F1.6 Monitor patients therapeutic tubes, lines, and supportive devices | | | |
| 57 | F1.7 Utilize equipment for monitoring patient's condition during the MR procedure | | | |
| 58 | F1.8 Enter and verify patient information into the MR system | | | |
| 59 | F1.9 Activate, monitor and manage the MR acquisition | | | |
| 60 | F1.10 Maintain communication with the patient throughout the examination | | | |
| 61 | F1.11 Prepare for the administration of contrast media | | | |
| 62 | F1.12 Assess and monitor the patient's condition | | | |
| 63 | F1.13 Recognize adverse reactions | | | |
| 64 | F1.14 Respond to adverse reactions | | | |
| 65 | F1.15 Monitor vital signs | | | |
| 66 | F1.16 Verify accuracy of patient demographics on the image using respective medium | | | |
| 67 | F1.17 Perform post processing to optimize the digital image | | | |
| 68 | F1.20 Recognize and respond to the need for medical consultation before dismissal of the patient | | | |
| 69 | F1.21 Recommend additional sequences in consultation with the physician | | | |
| 70 | F1.22 Ensure the patient's needs are met prior to release from the technologist's care | | | |
| **J1 Perform abdomen Imaging Procedures** | | | | |
| 71 | J 1.1 Understand pathology and anomalies related to the abdomen | | | |
| 72 | J1.2 Recognize signal characteristics consistent with pathology and anomalies related to the abdomen | | | |

| | Competency | YES | NO | N/A |
|---|---|---|---|---|
| 73 | J1.3 Select the appropriate imaging parameters for the abdomen | | | |
| 74 | J1.4 Evaluate image quality | | | |
| 75 | J1.5 Evaluate image artifacts and take appropriate action | | | |
| 76 | J1.6 Evaluate the effects of changing imaging parameters and options on the image quality | | | |
| 77 | J1.7 Evaluate the effects of changing imaging parameters and options on the scan time | | | |
| 78 | J1.8 Evaluate the effects of changing imaging parameters and options on the anatomical coverage | | | |
| 79 | J1.9 Evaluate the effects of changing imaging parameters and options on the pathological visualization | | | |
| 80 | J1.10 Evaluate the effects of changing imaging parameters and options on the SAR reduction techniques | | | |
| 81 | J1.11 Understand the use of advanced imaging techniques | | | |
| **J5 Perform an imaging procedure of the kidneys** | | | | |
| 82 | J5.1 Understand gross anatomy, cross sectional anatomy, physiology of the kidneys | | | |
| 83 | J 5.2 Select the optimal coil to image the kidneys | | | |
| 84 | J 5.3 Prepare the patient for a kidney imaging procedure based on the requested protocol and the patients physical and cognitive status | | | |
| 85 | J5.4 Position the patient and coil using anatomical landmark and relational anatomy | | | |
| 86 | J5.5 Landmark the kidneys to the positioning light and advance the patient to isocenter | | | |
| 87 | J5.6 Select the optimal imaging plane for the kidneys | | | |
| 88 | J5.7 Determine and select the appropriate pulse sequences for optimal visualization of the kidneys | | | |
| 89 | J5.8 Consider patient related factors when modifying imaging planes and sequences to achieve optimal visualization of the kidneys | | | |
| 90 | J5.9 Optimize imaging parameters for the kidneys | | | |
| 91 | J5.10 Select the optimal imaging options for each pulse sequence for the kidneys | | | |
| 92 | J5.11 Determine the limit and extent of image coverage for the kidneys | | | |
| | **Total** | | | |

Total:

$$\frac{\text{(\# of YES)}}{92 - \text{(\# of N/A)}} = \frac{\quad}{\quad} = \quad \%$$

Must attain a minimum of 60 % to achieve satisfactory results

The evaluating Technologist reserves the right to fail the student regardless of the number of “No’s” if there was a critical error.
Example: the exam was done perfectly but the patient had a pacemaker.

_____
Student Signature Date

_____
Evaluators Signature Date

# Competency Module K: Thorax

FANSHAWE
Faculty of Health Sciences
& Human Services

## Modules A, B, C, F, and K: Clinical Competency Evaluation: Heart (observed)

**Patient number** _____ **Date of Competency** _____

| | **Competency** |
|---|---|
| 1 | A1.1 Apply critical thinking and problem solving strategies to ensure best practices |
| | **A2 Practice in accordance with legislation, regulations and ethical guidelines related to the profession** |
| 2 | A2.1 Practice patient care that protects the patient's legal rights |
| 3 | A2.3 Perform all duties in compliance with sexual abuse prevention guidelines |
| 4 | A2.4 Practice in accordance with national associations/provincial regulatory body's code of ethics |
| 5 | A2.5 Practice within scope of practice in accordance regulatory body legislation requirements |
| 6 | A2.6 Practice in accordance with regulatory body standards of practice |
| 7 | A2.7 Practice in accordance with legislation regulations/ By- laws regulating medical radiation technologists |
| 8 | A3.1 Demonstrate respect and sensitivity in both patient and professional interactions |
| 9 | A3.2 Utilize stress management techniques |
| 10 | A3.3 Utilize conflict management techniques |
| 11 | A3.5 Exchange knowledge /skills with other members of health care teams to promote collaborative practice |
| 12 | A3.8 Present a professional appearance manner |
| 13 | B1.1 Provide a safe, clean and comfortable environment |
| 14 | B1.2 Transport the patient safely using equipment based on the patients physical and cognitive needs and resources available |
| | B1.3 Transfer the patient safely using equipment and techniques based on the patients physical and cognitive needs |
| 15 | B1.4 Employ proper body mechanics to prevent harm to self and patient |
| 16 | B1.5 Implement immobilization based on age , physical and cognitive status of the patient and type of procedure |
| 17 | B1.6 Adjust the patients position to prevent harm and promote comfort |
| 18 | B1.7 Verify patients identity following standardized protocol |
| 19 | B1.8 Assess documentation for compliance with legal requirements |
| 20 | B1.9 Complete documentation for compliance with regulations |
| 21 | B2.1 Establish patient rapport |
| 22 | B2.2 Use various forms of communication to provide relevant, accurate, and complete information |
| 23 | B2.3 Exchange information regarding details of the procedure with patients and their support persons, to enable them to make informed decisions |
| 24 | B2.4 Assess and Respond to cultural, ethnic, linguistic, religious and socioeconomic variable affecting communication |
| 25 | B3.1 Perform patient assessment |
| 26 | B3.2 Assess, monitor and respond to various levels of patient status |
| 27 | B3.3 Perform /participate in medical interventions |
| 28 | B3.4 Assess, monitor and respond to the patients therapeutic and supportive devices to ensure patient safety and comfort |
| 29 | B3.5 Ensure the patient's needs are met prior to release from the technologist's care |
| | **B4 Implement infection control practices** |
| 30 | B4.1 Understand transmission mode of nosocomial infections (host, agent and environment) |
| 31 | B4.2 Utilize routine practices for preventing the transmission of infection in health care |
| 32 | B4.3 Apply principles of asepsis |
| 33 | B4.4 Apply protocols when handling and disposing contaminated and biohazard materials such as sharps and body fluids |
| 34 | B4.5 Adhere to protective environment protocols with patients who have compromised immunity |
| 35 | B4.6 Adhere to protocols when caring for patients with antibiotic resistant organisms |

| | **Competency** |
|---|---|
| 36 | B4.7 Adhere to transmission based precautions for airborne , droplet and contact modes of transmission |
| 37 | B5.1 Assist the patient with personal care |
| 38 | C1.1 Ensure that the patient screening forms are completed |
| 39 | C 1.2 Demonstrate an understanding of the magnetic properties of foreign objects |
| 40 | C1.3 Determine whether foreign objects in /on the patient's body constitute a contraindication to MR |
| 41 | C1.4 Determine exceptions to contraindications during the screening process |
| 42 | C1.5 Determine patient's pregnancy status and take appropriate action |
| 43 | C1.6 Screen MR personnel and support staff |
| 44 | C1.7 Assess and remove any ancillary contraindicated objects from the patient, MR personnel and Support Staff |
| 45 | C1.8 Identify the safety considerations related to the presence of ferromagnetic equipment/accessories (MR compatible or MR safe) in the magnetic field |
| 46 | C2.1 Provide hearing protection to the patient and attending individuals. |
| 47 | C2.6 Utilize safe practice in RF coil and equipment cable placement |
| 48 | F1.1 Assess documentation for compliance with legal requirements |
| 49 | F 1.2 Demonstrate an understanding of related disciplines in order to review data available from images and/or reports of previous studies and procedures |
| 50 | F1.3 Utilize the clinical information provided to adapt the requested exam to the individual patient |
| 51 | F1.4 Ascertain the reasons for the MR examination, given an adequate clinical history |
| 52 | F1.5 Adapt the procedure for the patients physical and cognitive condition |
| 53 | F1.6 Monitor patients therapeutic tubes, lines, and supportive devices |
| 54 | F1.7 Utilize equipment for monitoring patient's condition during the MR procedure |
| 55 | F1.8 Enter and verify patient information into the MR system |
| 56 | F1.9 Activate, monitor and manage the MR acquisition |
| 57 | F1.10 Maintain communication with the patient throughout the examination |
| 58 | F1.11 Prepare for the administration of contrast media |
| 59 | F1.12 Assess and monitor the patient's condition |
| 60 | F1.13 Recognize adverse reactions |
| 61 | F1.14 Respond to adverse reactions |
| 62 | F1.15 Monitor vital signs |
| 63 | F1.16 Verify accuracy of patient demographics on the image using respective medium |
| 64 | F1.17 Perform post processing to optimize the digital image |
| 65 | F1.20 Recognize and respond to the need for medical consultation before dismissal of the patient |
| 66 | F1.21 Recommend additional sequences in consultation with the physician |
| 67 | F1.22 Ensure the patient's needs are met prior to release from the technologist's care |
| 68 | K 1.1 Understand pathology and anomalies related to the thorax |
| 69 | K1.2 Recognize signal characteristics consistent with pathology and anomalies related to the thorax |
| 70 | K1.3 Select the appropriate imaging parameters for the thorax |
| 71 | K1.4 Evaluate image quality |
| 72 | K1.5 Evaluate image artifacts and take appropriate action |
| 73 | K1.6 Evaluate the effects of changing imaging parameters and options on the image quality |
| 74 | K1.7 Evaluate the effects of changing imaging parameters and options on the scan time |
| 75 | K1.8 Evaluate the effects of changing imaging parameters and options on the anatomical coverage |
| 76 | K1.9 Evaluate the effects of changing imaging parameters and options on the pathological visualization |
| 77 | K1.10 Evaluate the effects of changing imaging parameters and options on the SAR reduction techniques |
| 78 | K1.11 Understand the use of advanced imaging techniques |
| 79 | K2.1 Understand gross anatomy, cross sectional anatomy, physiology of the heart |

| | Competency |
|---|---|
| 80 | K2.2 Select the optimal coil to image the heart |
| 81 | K2.3 Prepare the patient for heart imaging procedure based on the requested protocol and the patients physical and cognitive status |
| 82 | K2.4 Position the patient and coil using anatomical landmark and relational anatomy |
| 83 | K2.5 Landmark the heart to the positioning light and advance the patient to isocenter |
| 84 | K2.6 Select the optimal imaging plane for the heart |
| 85 | K2.7 Determine and select the appropriate pulse sequences for optimal visualization of the heart |
| 86 | K2.8 Consider patient related factors when modifying imaging planes and sequences to achieve optimal visualization of the heart |
| 87 | K2.9 Optimize imaging parameters for the heart |
| 88 | K2.10 Select the optimal imaging options for each pulse sequence for the heart |
| 89 | K2.11 Determine the limit and extent of image coverage for the heart |

The evaluating Technologist reserves the right to fail the student if there was a critical error.

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Student Signature Date

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Evaluators Signature Date

## Modules A, B, C, F, K; Clinical Competency Evaluation: Great Vessels (observed)

**Patient number** _____**Date of Competency**_____

| | **Competency** |
|---|---|
| 1 | A1.1 Apply critical thinking and problem solving strategies to ensure best practices |
| 2 | A2.1 Practice patient care that protects the patient's legal rights |
| 3 | A2.3 Perform all duties in compliance with sexual abuse prevention guidelines |
| 4 | A2.4 Practice in accordance with national associations/provincial regulatory body's code of ethics |
| 5 | A2.5 Practice within scope of practice in accordance regulatory body legislation requirements |
| 6 | A2.6 Practice in accordance with regulatory body standards of practice |
| 7 | A2.7 Practice in accordance with legislation regulations/ By- laws regulating medical radiation technologists |
| 8 | A3.1 Demonstrate respect and sensitivity in both patient and professional interactions |
| 9 | A3.2 Utilize stress management techniques |
| 10 | A3.3 Utilize conflict management techniques |
| 11 | A3.5 Exchange knowledge /skills with other members of health care teams to promote collaborative practice |
| 12 | A3.8 Present a professional appearance manner |
| 13 | B1.1 Provide a safe, clean and comfortable environment |
| 14 | B1.2 Transport the patient safely using equipment based on the patients physical and cognitive needs and resources available |
| | B1.3 Transfer the patient safely using equipment and techniques based on the patients physical and cognitive needs |
| 15 | B1.4 Employ proper body mechanics to prevent harm to self and patient |
| 16 | B1.5 Implement immobilization based on age , physical and cognitive status of the patient and type of procedure |
| 17 | B1.6 Adjust the patients position to prevent harm and promote comfort |
| 18 | B1.7 Verify patients identity following standardized protocol |
| 19 | B1.8 Assess documentation for compliance with legal requirements |
| 20 | B1.9 Complete documentation for compliance with regulations |
| 21 | B2.1 Establish patient rapport |
| 22 | B2.2 Use various forms of communication to provide relevant, accurate, and complete information |
| 23 | B2.3 Exchange information regarding details of the procedure with patients and their support persons, to enable them to make informed decisions |
| 24 | B2.4 Assess and Respond to cultural, ethnic, linguistic, religious and socioeconomic variable affecting communication |
| 25 | B3.1 Perform patient assessment |
| 26 | B3.2 Assess, monitor and respond to various levels of patient status |
| 27 | B3.3 Perform /participate in medical interventions |
| 28 | B3.4 Assess, monitor and respond to the patients therapeutic and supportive devices to ensure patient safety and comfort |
| 29 | B3.5 Ensure the patient's needs are met prior to release from the technologist's care |
| | **B4 Implement infection control practices** |
| 30 | B4.1 Understand transmission mode of nosocomial infections (host, agent and environment) |
| 31 | B4.2 Utilize routine practices for preventing the transmission of infection in health care |
| 32 | B4.3 Apply principles of asepsis |
| 33 | B4.4 Apply protocols when handling and disposing contaminated and biohazard materials such as sharps and body fluids |
| 34 | B4.5 Adhere to protective environment protocols with patients who have compromised immunity |
| 35 | B4.6 Adhere to protocols when caring for patients with antibiotic resistant organisms |
| 36 | B4.7 Adhere to transmission based precautions for airborne , droplet and contact modes of transmission |
| 37 | B5.1 Assist the patient with personal care |

| | Competency |
|---|---|
| 38 | C1.1 Ensure that the patient screening forms are completed |
| 39 | C 1.2 Demonstrate an understanding of the magnetic properties of foreign objects |
| 40 | C1.3 Determine whether foreign objects in /on the patient's body constitute a contraindication to MR |
| 41 | C1.4 Determine exceptions to contraindications during the screening process |
| 42 | C1.5 Determine patient's pregnancy status and take appropriate action |
| 43 | C1.6 Screen MR personnel and support staff |
| 44 | C1.7 Assess and remove any ancillary contraindicated objects from the patient, MR personnel and Support Staff |
| 45 | C1.8 Identify the safety considerations related to the presence of ferromagnetic equipment/accessories (MR compatible or MR safe) in the magnetic field |
| 46 | C2.1 Provide hearing protection to the patient and attending individuals. |
| 47 | C2.6 Utilize safe practice in RF coil and equipment cable placement |
| 48 | F1.1 Assess documentation for compliance with legal requirements |
| 49 | F 1.2 Demonstrate an understanding of related disciplines in order to review data available from images and/or reports of previous studies and procedures |
| 50 | F1.3 Utilize the clinical information provided to adapt the requested exam to the individual patient |
| 51 | F1.4 Ascertain the reasons for the MR examination, given an adequate clinical history |
| 52 | F1.5 Adapt the procedure for the patients physical and cognitive condition |
| 53 | F1.6 Monitor patients therapeutic tubes, lines, and supportive devices |
| 54 | F1.7 Utilize equipment for monitoring patient's condition during the MR procedure |
| 55 | F1.8 Enter and verify patient information into the MR system |
| 56 | F1.9 Activate, monitor and manage the MR acquisition |
| 57 | F1.10 Maintain communication with the patient throughout the examination |
| 58 | F1.11 Prepare for the administration of contrast media |
| 59 | F1.12 Assess and monitor the patient's condition |
| 60 | F1.13 Recognize adverse reactions |
| 61 | F1.14 Respond to adverse reactions |
| 62 | F1.15 Monitor vital signs |
| 63 | F1.16 Verify accuracy of patient demographics on the image using respective medium |
| 64 | F1.17 Perform post processing to optimize the digital image |
| 65 | F1.20 Recognize and respond to the need for medical consultation before dismissal of the patient |
| 66 | F1.21 Recommend additional sequences in consultation with the physician |
| 67 | F1.22 Ensure the patient's needs are met prior to release from the technologist's care |
| 68 | K 1.1 Understand pathology and anomalies related to the thorax |
| 69 | K1.2 Recognize signal characteristics consistent with pathology and anomalies related to the thorax |
| 70 | K1.3 Select the appropriate imaging parameters for the thorax |
| 71 | K1.4 Evaluate image quality |
| 72 | K1.5 Evaluate image artifacts and take appropriate action |
| 73 | K1.6 Evaluate the effects of changing imaging parameters and options on the image quality |
| 74 | K1.7 Evaluate the effects of changing imaging parameters and options on the scan time |
| 75 | K1.8 Evaluate the effects of changing imaging parameters and options on the anatomical coverage |
| 76 | K1.9 Evaluate the effects of changing imaging parameters and options on the pathological visualization |
| 77 | K1.10 Evaluate the effects of changing imaging parameters and options on the SAR reduction techniques |
| 78 | K1.11 Understand the use of advanced imaging techniques |
| 79 | K3.1 Understand gross anatomy, cross sectional anatomy, physiology of the great vessels |
| 80 | K3.2 Select the optimal coil to image the great vessels |
| 81 | K3.3 Prepare the patient for heart imaging procedure based on the requested protocol and the patients physical and cognitive status |
| 82 | K3.4 Position the patient and coil using anatomical landmark and relational anatomy |
| 83 | K3.5 Landmark the great vessels to the positioning light and advance the patient to isocenter |
| 84 | K3.6 Select the optimal imaging plane for the great vessels |
| 85 | K3.7 Determine and select the appropriate pulse sequences for optimal visualization of the great vessels |

| | **Competency** |
|---|---|
| 86 | K3.8 Consider patient related factors when modifying imaging planes and sequences to achieve optimal visualization of the great vessels |
| 87 | K3.9 Optimize imaging parameters for the great vessels |
| 88 | K3.10 Select the optimal imaging options for each pulse sequence for the great vessels |
| 89 | K3 11 Determine the limit and extent of image coverage for the great vessels |

The evaluating Technologist reserves the right to fail the student if there was a critical error.

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Student Signature Date

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Evaluators Signature Date

## Modules A, B, C, F, K; Clinical Competency Evaluation: Breast (observed)

**Patient number** _____ **Date of Competency**_____

| **Competency** |
|---|
| A1.1 Apply critical thinking and problem solving strategies to ensure best practices |
| A2.1Practice patient care that protects the patient's legal rights |
| A2.3Perform all duties in compliance with sexual abuse prevention guidelines |
| A2.4Practice in accordance with national associations/provincial regulatory body's code of ethics |
| A2.5 Practice within scope of practice in accordance regulatory body legislation requirements |
| A2.6 Practice in accordance with regulatory body standards of practice |
| A2.7 Practice in accordance with legislation regulations/ By- laws regulating medical radiation technologists |
| A3.1 Demonstrate respect and sensitivity in both patient and professional interactions |
| A3.2 Utilize stress management techniques |
| A3.3 Utilize conflict management techniques |
| A3.5 Exchange knowledge /skills with other members of health care teams to promote collaborative practice |
| A3.8 Present a professional appearance manner |
| B1.1 Provide a safe, clean and comfortable environment |
| B1.2 Transport the patient safely using equipment based on the patients physical and cognitive needs and resources available |
| B1.3 Transfer the patient safely using equipment and techniques based on the patients physical and cognitive needs |
| B1.4 Employ proper body mechanics to prevent harm to self and patient |
| B1.5 Implement immobilization based on age , physical and cognitive status of the patient and type of procedure |
| B1.6 Adjust the patients position to prevent harm and promote comfort |
| B1.7 Verify patients identity following standardized protocol |
| B1.8 Assess documentation for compliance with legal requirements |
| B1.9 Complete documentation for compliance with regulations |
| B2.1 Establish patient rapport |
| B2.2 Use various forms of communication to provide relevant, accurate, and complete information |
| B2.3 Exchange information regarding details of the procedure with patients and their support persons, to enable them to make informed decisions |
| B2.4 Assess and Respond to cultural, ethnic, linguistic, religious and socioeconomic variable affecting communication |
| **B3.1** Perform patient assessment |
| B3.2 Assess, monitor and respond to various levels of patient status |
| B3.3 Perform /participate in medical interventions |
| B3.4 Assess, monitor and respond to the patients therapeutic and supportive devices to ensure patient safety and comfort |
| B3.5 Ensure the patient's needs are met prior to release from the technologist's care |
| B4.1 Understand transmission mode of nosocomial infections (host, agent and environment) |
| B4.2 Utilize routine practices for preventing the transmission of infection in health care |
| B4.3 Apply principles of asepsis |
| B4.4 Apply protocols when handling and disposing contaminated and biohazard materials such as sharps and body fluids |
| B4.5 Adhere to protective environment protocols with patients who have compromised immunity |
| B4.6 Adhere to protocols when caring for patients with antibiotic resistant organisms |
| B4.7 Adhere to transmission based precautions for airborne , droplet and contact modes of transmission |
| **B5 Respond to patients hygiene needs** |
| B5.1 Assist the patient with personal care |
| C1.1 Ensure that the patient screening forms are completed |

| |
|---|
| C 1.2 Demonstrate an understanding of the magnetic properties of foreign objects |
| C1.3 Determine whether foreign objects in /on the patient's body constitute a contraindication to MR |
| C1.4Determine exceptions to contraindications during the screening process |
| C1.5Determine patient's pregnancy status and take appropriate action |
| C1.6 Screen MR personnel and support staff |
| C1.7 Assess and remove any ancillary contraindicated objects from the patient, MR personnel and Support Staff |
| C1.8 Identify the safety considerations related to the presence of ferromagnetic equipment/accessories (MR compatible or MR safe) in the magnetic field |
| C2.1Provide hearing protection to the patient and attending individuals. |
| C2.6 Utilize safe practice in RF coil and equipment cable placement |
| F1.1 Assess documentation for compliance with legal requirements |
| F1.3 Utilize the clinical information provided to adapt the requested exam to the individual patient |
| F1.4 Ascertain the reasons for the MR examination, given an adequate clinical history |
| F1.5Adapt the procedure for the patients physical and cognitive condition |
| F1.6 Monitor patients therapeutic tubes, lines, and supportive devices |
| F1.7 Utilize equipment for monitoring patient's condition during the MR procedure |
| F1.8 Enter and verify patient information into the MR system |
| F1.9 Activate, monitor and manage the MR acquisition |
| F1.10 Maintain communication with the patient throughout the examination |
| F1.11Prepare for the administration of contrast media |
| F1.12 Assess and monitor the patient's condition |
| F1.13 Recognize adverse reactions |
| F1.14 Respond to adverse reactions |
| F1.15 Monitor vital signs |
| F1.16 Verify accuracy of patient demographics on the image using respective medium |
| F1.17Perform post processing to optimize the digital image |
| F1.20Recognize and respond to the need for medical consultation before dismissal of the patient |
| F1.21 Recommend additional sequences in consultation with the physician |
| F1.22 Ensure the patient's needs are met prior to release from the technologist's care |
| K 7.1 Understand pathology and anomalies related to the breast |
| K7.2 Select the optimal coil to image the breast |
| K7.3 Prepare the patient for a breast imaging procedure based on the requested protocol and the patient's physical and cognitive status |
| K7.4 Position the patient and coil using anatomical landmark and relational anatomy |
| K7.5 Landmark the breast to the positioning light and advance the patient to isocenter |
| K7.6 Select the optimal imaging plane for the breast |
| K7.7 Determine and select the appropriate pulse sequence for optimal visualization of the breast |
| K7.8 Consider the patient related factors when modifying imaging planes and sequences to achieve optimal visualization of the breast |
| K7.9 Optimize imaging parameters for the breast |
| K7.10 Select optimal imaging options for each pulse sequence for the breast |
| K7.11 Determine the limit and extent of image coverage for the breast |
| K7.12 Demonstrate an understanding of interventional procedures for the breast |

The evaluating Technologist reserves the right to fail the student if there was a critical error

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Student Signature Date

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Evaluators Signature Date

Comments

# Competency Module L: Pelvis (Non-Ortho)

FANSHAWE
Faculty of Health Sciences
& Human Services

## Modules A, B, C, F, and L: Clinical Competency Evaluation: Female Pelvis (non-ortho)

**Attempt _____**

**patient number _____Date of Competency_____**

| | Competency | YES | NO | N/A |
|---|---|---|---|---|
| **A1 Demonstrates critical thinking** | | | | |
| 1 | A1.1 Apply critical thinking and problem solving strategies to ensure best practices | | | |
| **A2 Practice in accordance with legislation, regulations and ethical guidelines related to the profession** | | | | |
| 2 | A2.1 Practice patient care that protects the patient's legal rights | | | |
| 3 | A2.3 Perform all duties in compliance with sexual abuse prevention guidelines | | | |
| 4 | A2.4 Practice in accordance with national associations/provincial regulatory body's code of ethics | | | |
| 5 | A2.5 Practice within scope of practice in accordance regulatory body legislation requirements | | | |
| 6 | A2.6 Practice in accordance with regulatory body standards of practice | | | |
| 7 | A2.7 Practice in accordance with legislation regulations/ By- laws regulating medical radiation technologists | | | |
| **A3 Demonstrate professional behaviours** | | | | |
| 8 | A3.1 Demonstrate respect and sensitivity in both patient and professional interactions | | | |
| 9 | A3.2 Utilize stress management techniques | | | |
| 10 | A3.3 Utilize conflict management techniques | | | |
| 11 | A3.5 Exchange knowledge /skills with other members of health care teams to promote collaborative practice | | | |
| 12 | A3.8 Present a professional appearance manner | | | |
| | **A7 Participate in resource management** | | | |
| 13 | A7.1 Prioritize workflow to optimize patient outcomes | | | |
| 14 | A7.2 Monitor inventory of materials and supplies | | | |
| **B1 Provide a safe environment to minimize the risk of adverse events to the patient and to staff** | | | | |
| 15 | B1.1 Provide a safe, clean and comfortable environment | | | |
| 16 | B1.2 Transport the patient safely using equipment based on the patients physical and cognitive needs and resources available | | | |
| 17 | B1.3 Transfer the patient safely using equipment and techniques based on the patients physical and cognitive needs | | | |
| 18 | B1.4 Employ proper body mechanics to prevent harm to self and patient | | | |
| 19 | B1.5 Implement immobilization based on age , physical and cognitive status of the patient and type of procedure | | | |
| 20 | B1.6 Adjust the patients position to prevent harm and promote comfort | | | |
| 21 | B1.7 Verify patients identity following standardized protocol | | | |
| 22 | B1.8 Assess documentation for compliance with legal requirements | | | |
| 23 | B1.9 Complete documentation for compliance with regulations | | | |
| **B 2 Interact within the healthcare environment** | | | | |
| 24 | B2.1 Establish patient rapport | | | |
| 25 | B2.2 Use various forms of communication to provide relevant, accurate, and complete information | | | |
| 26 | B2.3 Exchange information regarding details of the procedure with patients and their support persons, to enable them to make informed decisions | | | |
| 27 | B2.4 Assess and Respond to cultural, ethnic, linguistic, religious and socioeconomic variable affecting communication | | | |
| **B3 Perform patient assessments and medical interventions within scope of practice in accordance with provincial regulatory body's legislation requirements.** | | | | |
| 28 | B3.1 Perform patient assessment | | | |
| 29 | B3.2 Assess, monitor and respond to various levels of patient status | | | |
| 30 | B3.3 Perform /participate in medical interventions | | | |
| 31 | B3.4 Assess, monitor and respond to the patients therapeutic and supportive devices to ensure patient safety and comfort | | | |

| | Competency | YES | NO | N/A |
|---|---|---|---|---|
| 32 | B3.5 Ensure the patient's needs are met prior to release from the technologist's care | | | |
| **B4 Implement infection control practices** | | | | |
| 33 | B4.1 Understand transmission mode of nosocomial infections (host, agent and environment) | | | |
| 34 | B4.2 Utilize routine practices for preventing the transmission of infection in health care | | | |
| 35 | B4.3 Apply principles of asepsis | | | |
| 36 | B4.4 Apply protocols when handling and disposing contaminated and biohazard materials such as sharps and body fluids | | | |
| 37 | B4.5 Adhere to protective environment protocols with patients who have compromised immunity | | | |
| 38 | B4.6 Adhere to protocols when caring for patients with antibiotic resistant organisms | | | |
| 39 | B4.7 Adhere to transmission based precautions for airborne , droplet and contact modes of transmission | | | |
| **B5 Respond to patients hygiene needs** | | | | |
| 40 | B5.1 Assist the patient with personal care | | | |
| **C1 Apply MR safety practices with respect to MR screening** | | | | |
| 41 | C1.1 Ensure that the patient screening forms are completed | | | |
| 42 | C 1.2 Demonstrate an understanding of the magnetic properties of foreign objects | | | |
| 43 | C1.3 Determine whether foreign objects in /on the patient's body constitute a contraindication to MR | | | |
| 44 | C1.4 Determine exceptions to contraindications during the screening process | | | |
| 45 | C1.5 Determine patient's pregnancy status and take appropriate action | | | |
| 46 | C1.6 Screen MR personnel and support staff | | | |
| 47 | C1.7 Assess and remove any ancillary contraindicated objects from the patient, MR personnel and Support Staff | | | |
| 48 | C1.8 Identify the safety considerations related to the presence of ferromagnetic equipment/accessories (MR compatible or MR safe) in the magnetic field | | | |
| **C2 Apply safety guidelines with respect to MR bio-effects** | | | | |
| 49 | C2.1 Provide hearing protection to the patient and attending individuals. | | | |
| 50 | C2.6 Utilize safe practice in RF coil and equipment cable placement | | | |
| **F1 Perform duties that are common to all MR Imaging Procedures** | | | | |
| 51 | F1.1 Assess documentation for compliance with legal requirements | | | |
| 52 | F 1.2 Demonstrate an understanding of related disciplines in order to review data available from images and/or reports of previous studies and procedures | | | |
| 53 | F1.3 Utilize the clinical information provided to adapt the requested exam to the individual patient | | | |
| 54 | F1.4 Ascertain the reasons for the MR examination, given an adequate clinical history | | | |
| 55 | F1.5 Adapt the procedure for the patients physical and cognitive condition | | | |
| 56 | F1.6 Monitor patients therapeutic tubes, lines, and supportive devices | | | |
| 57 | F1.7 Utilize equipment for monitoring patient's condition during the MR procedure | | | |
| 58 | F1.8 Enter and verify patient information into the MR system | | | |
| 59 | F1.9 Activate, monitor and manage the MR acquisition | | | |
| 60 | F1.10 Maintain communication with the patient throughout the examination | | | |
| 61 | F1.11 Prepare for the administration of contrast media | | | |
| 62 | F1.12 Assess and monitor the patient's condition | | | |
| 63 | F1.13 Recognize adverse reactions | | | |
| 64 | F1.14 Respond to adverse reactions | | | |
| 65 | F1.15 Monitor vital signs | | | |
| 66 | F1.16 Verify accuracy of patient demographics on the image using respective medium | | | |
| 67 | F1.17 Perform post processing to optimize the digital image | | | |
| 68 | F1.20 Recognize and respond to the need for medical consultation before dismissal of the patient | | | |
| 69 | F1.21 Recommend additional sequences in consultation with the physician | | | |
| 70 | F1.22 Ensure the patient's needs are met prior to release from the technologist's care | | | |
| | **L1 Perform a female pelvic Imaging Procedures** | | | |
| 71 | L 1.1 Understand pathology and anomalies related to the pelvis | | | |

| | Competency | YES | NO | N/A |
|---|---|---|---|---|
| 72 | L1.2 Recognize signal characteristics consistent with pathology and anomalies related to the pelvis | | | |
| 73 | L1.3 Select the appropriate imaging parameters for the pelvis | | | |
| 74 | L1.4 Evaluate image quality | | | |
| 75 | L1.5 Evaluate image artifacts and take appropriate action | | | |
| 76 | L1.6 Evaluate the effects of changing imaging parameters and options on the image quality | | | |
| 77 | L1.7 Evaluate the effects of changing imaging parameters and options on the scan time | | | |
| 78 | L1.8 Evaluate the effects of changing imaging parameters and options on the anatomical coverage | | | |
| 79 | L1.9 Evaluate the effects of changing imaging parameters and options on the pathological visualization | | | |
| 80 | L1.10 Evaluate the effects of changing imaging parameters and options on the SAR reduction techniques | | | |
| 81 | L1.11 Understand the use of advanced imaging techniques | | | |
| **L4,5,6 or 7: Perform imaging procedures of cervix, uterus ovaries or vagina** | | | | |
| 82 | L5, 6, 7 or 8.1 Understand gross anatomy, cross sectional anatomy, physiology of the cervix, uterus, ovaries or vagina | | | |
| 83 | L5,6,7,8.2 Select the optimal coil to image the cervix, uterus, ovaries or vagina | | | |
| 84 | L5,6,7,8 3 Prepare the patient for cervix, uterus, ovaries or vagina imaging procedure based on the requested protocol and the patients physical and cognitive status | | | |
| 85 | L5,6,7,8.4 Position the patient and coil using anatomical landmark and relational anatomy | | | |
| 86 | L5,6,7,8.5 Landmark the cervix, uterus, ovaries or vagina to the positioning light and advance the patient to isocenter | | | |
| 87 | L5,6,7,8.6 Select the optimal imaging plane for the cervix, uterus, ovaries or vagina | | | |
| 88 | L5,6,7,8.7 Determine and select the appropriate pulse sequences for optimal visualization of the cervix, uterus, ovaries or vagina | | | |
| 89 | L5,6,7,8.8 Consider patient related factors when modifying imaging planes and sequences to achieve optimal visualization of the cervix, uterus, ovaries or vagina | | | |
| 90 | L5,6,7,8.9 Optimize imaging parameters for the cervix, uterus, ovaries or vagina | | | |
| 91 | L5,6,7,8.10 Select the optimal imaging options for each pulse sequence for the cervix, uterus, ovaries or vagina | | | |
| 92 | L5,6,7,8.11 Determine the limit and extent of image coverage for the cervix, uterus, ovaries or vagina | | | |
| | **Total** | | | |

Total:

$$\frac{\text{(\# of YES)}}{92 - \text{(\# of N/A)}} = \frac{\quad}{\quad} = \quad \%$$

Must attain a minimum of 60 % to achieve satisfactory results

The evaluating Technologist reserves the right to fail the student regardless of the number of “No’s” if there was a critical error.
Example: the exam was done perfectly but the patient had a pacemaker.

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Student Signature Date

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Evaluators Signature Date

## Modules A, B, C, F, and L: Clinical Competency Evaluation: Male Pelvis (non-ortho)

**Attempt ____**

**Patient number** _____**Date of Competency**_____

| | Competency | YES | NO | N/A |
|---|---|---|---|---|
| **A1 Demonstrates critical thinking** | | | | |
| 1 | A1.1 Apply critical thinking and problem solving strategies to ensure best practices | | | |
| **A2 Practice in accordance with legislation, regulations and ethical guidelines related to the profession** | | | | |
| 2 | A2.1 Practice patient care that protects the patient's legal rights | | | |
| 3 | A2.3 Perform all duties in compliance with sexual abuse prevention guidelines | | | |
| 4 | A2.4 Practice in accordance with national associations/provincial regulatory body's code of ethics | | | |
| 5 | A2.5 Practice within scope of practice in accordance regulatory body legislation requirements | | | |
| 6 | A2.6 Practice in accordance with regulatory body standards of practice | | | |
| 7 | A2.7 Practice in accordance with legislation regulations/ By- laws regulating medical radiation technologists | | | |
| **A3 Demonstrate professional behaviours** | | | | |
| 8 | A3.1 Demonstrate respect and sensitivity in both patient and professional interactions | | | |
| 9 | A3.2 Utilize stress management techniques | | | |
| 10 | A3.3 Utilize conflict management techniques | | | |
| 11 | A3.5 Exchange knowledge /skills with other members of health care teams to promote collaborative practice | | | |
| 12 | A3.8 Present a professional appearance manner | | | |
| **A7 Participate in resource management** | | | | |
| 13 | A7.1 Prioritize workflow to optimize patient outcomes | | | |
| 14 | A7.2 Monitor inventory of materials and supplies | | | |
| **B1 Provide a safe environment to minimize the risk of adverse events to the patient and to staff** | | | | |
| 15 | B1.1 Provide a safe, clean and comfortable environment | | | |
| 16 | B1.2 Transport the patient safely using equipment based on the patients physical and cognitive needs and resources available | | | |
| 17 | B1.3 Transfer the patient safely using equipment and techniques based on the patients physical and cognitive needs | | | |
| 18 | B1.4 Employ proper body mechanics to prevent harm to self and patient | | | |
| 19 | B1.5 Implement immobilization based on age , physical and cognitive status of the patient and type of procedure | | | |
| 20 | B1.6 Adjust the patients position to prevent harm and promote comfort | | | |
| 21 | B1.7 Verify patients identity following standardized protocol | | | |
| 22 | B1.8 Assess documentation for compliance with legal requirements | | | |
| 23 | B1.9 Complete documentation for compliance with regulations | | | |
| **B 2 Interact within the healthcare environment** | | | | |
| 24 | B2.1 Establish patient rapport | | | |
| 25 | B2.2 Use various forms of communication to provide relevant, accurate, and complete information | | | |
| 26 | B2.3 Exchange information regarding details of the procedure with patients and their support persons, to enable them to make informed decisions | | | |
| 27 | B2.4 Assess and Respond to cultural, ethnic, linguistic, religious and socioeconomic variable affecting communication | | | |
| **B3 Perform patient assessments and medical interventions within scope of practice in accordance with provincial regulatory body's legislation requirements.** | | | | |
| 28 | B3.1 Perform patient assessment | | | |
| 29 | B3.2 Assess, monitor and respond to various levels of patient status | | | |
| 30 | B3.3 Perform /participate in medical interventions | | | |
| 31 | B3.4 Assess, monitor and respond to the patients therapeutic and supportive devices to ensure patient safety and comfort | | | |

| | Competency | YES | NO | N/A |
|---|---|---|---|---|
| 32 | B3.5 Ensure the patient's needs are met prior to release from the technologist's care | | | |
| **B4 Implement infection control practices** | | | | |
| 33 | B4.1 Understand transmission mode of nosocomial infections (host, agent and environment) | | | |
| 34 | B4.2 Utilize routine practices for preventing the transmission of infection in health care | | | |
| 35 | B4.3 Apply principles of asepsis | | | |
| 36 | B4.4 Apply protocols when handling and disposing contaminated and biohazard materials such as sharps and body fluids | | | |
| 37 | B4.5 Adhere to protective environment protocols with patients who have compromised immunity | | | |
| 38 | B4.6 Adhere to protocols when caring for patients with antibiotic resistant organisms | | | |
| 39 | B4.7 Adhere to transmission based precautions for airborne , droplet and contact modes of transmission | | | |
| **B5 Respond to patients hygiene needs** | | | | |
| 40 | B5.1 Assist the patient with personal care | | | |
| **C1 Apply MR safety practices with respect to MR screening** | | | | |
| 41 | C1.1 Ensure that the patient screening forms are completed | | | |
| 42 | C 1.2 Demonstrate an understanding of the magnetic properties of foreign objects | | | |
| 43 | C1.3 Determine whether foreign objects in /on the patient's body constitute a contraindication to MR | | | |
| 44 | C1.4 Determine exceptions to contraindications during the screening process | | | |
| 45 | C1.5 Determine patient's pregnancy status and take appropriate action | | | |
| 46 | C1.6 Screen MR personnel and support staff | | | |
| 47 | C1.7 Assess and remove any ancillary contraindicated objects from the patient, MR personnel and Support Staff | | | |
| 48 | C1.8 Identify the safety considerations related to the presence of ferromagnetic equipment/accessories (MR compatible or MR safe) in the magnetic field | | | |
| **C2 Apply safety guidelines with respect to MR bio-effects** | | | | |
| 49 | C2.1 Provide hearing protection to the patient and attending individuals. | | | |
| 50 | C2.6 Utilize safe practice in RF coil and equipment cable placement | | | |
| **F1 Perform duties that are common to all MR Imaging Procedures** | | | | |
| 51 | F1.1 Assess documentation for compliance with legal requirements | | | |
| 52 | F 1.2 Demonstrate an understanding of related disciplines in order to review data available from images and/or reports of previous studies and procedures | | | |
| 53 | F1.3 Utilize the clinical information provided to adapt the requested exam to the individual patient | | | |
| 54 | F1.4 Ascertain the reasons for the MR examination, given an adequate clinical history | | | |
| 55 | F1.5 Adapt the procedure for the patients physical and cognitive condition | | | |
| 56 | F1.6 Monitor patients therapeutic tubes, lines, and supportive devices | | | |
| 57 | F1.7 Utilize equipment for monitoring patient's condition during the MR procedure | | | |
| 58 | F1.8 Enter and verify patient information into the MR system | | | |
| 59 | F1.9 Activate, monitor and manage the MR acquisition | | | |
| 60 | F1.10 Maintain communication with the patient throughout the examination | | | |
| 61 | F1.11 Prepare for the administration of contrast media | | | |
| 62 | F1.12 Assess and monitor the patient's condition | | | |
| 63 | F1.13 Recognize adverse reactions | | | |
| 64 | F1.14 Respond to adverse reactions | | | |
| 65 | F1.15 Monitor vital signs | | | |
| 66 | F1.16 Verify accuracy of patient demographics on the image using respective medium | | | |
| 67 | F1.17 Perform post processing to optimize the digital image | | | |
| 68 | F1.20 Recognize and respond to the need for medical consultation before dismissal of the patient | | | |
| 69 | F1.21 Recommend additional sequences in consultation with the physician | | | |
| 70 | F1.22 Ensure the patient's needs are met prior to release from the technologist's care | | | |
| **L1 Perform a male pelvic Imaging Procedures** | | | | |
| 71 | L 1.1 Understand pathology and anomalies related to the pelvis | | | |

| | Competency | YES | NO | N/A |
|---|---|---|---|---|
| 72 | L1.2 Recognize signal characteristics consistent with pathology and anomalies related to the pelvis | | | |
| 73 | L1.3 Select the appropriate imaging parameters for the pelvis | | | |
| 74 | L1.4 Evaluate image quality | | | |
| 75 | L1.5 Evaluate image artifacts and take appropriate action | | | |
| 76 | L1.6 Evaluate the effects of changing imaging parameters and options on the image quality | | | |
| 77 | L1.7 Evaluate the effects of changing imaging parameters and options on the scan time | | | |
| 78 | L1.8 Evaluate the effects of changing imaging parameters and options on the anatomical coverage | | | |
| 79 | L1.9 Evaluate the effects of changing imaging parameters and options on the pathological visualization | | | |
| 80 | L1.10 Evaluate the effects of changing imaging parameters and options on the SAR reduction techniques | | | |
| 81 | L1.11 Understand the use of advanced imaging techniques | | | |
| **L8 or 9: Perform imaging procedures of prostate, scrotom or testicles** | | | | |
| 82 | L8 or 9.1 Understand gross anatomy, cross sectional anatomy, physiology of the prostate, scrotom or testicles | | | |
| 83 | L8 or 9.2 Select the optimal coil to image the prostate, scrotom or testicles | | | |
| 84 | L8 or 9.3 Prepare the patient for prostate, scrotom or testicles imaging procedure based on the requested protocol and the patients physical and cognitive status | | | |
| 85 | L8 or 9.4 Position the patient and coil using anatomical landmark and relational anatomy | | | |
| 86 | L8 or 9 5 Landmark the prostate, scrotom or testicles to the positioning light and advance the patient to isocenter | | | |
| 87 | L8 or 9.6 Select the optimal imaging plane for the prostate, scrotom or testicles | | | |
| 88 | L8 or 9.7 Determine and select the appropriate pulse sequences for optimal visualization of the prostate, scrotom or testicles | | | |
| 89 | L8 or 9.8 Consider patient related factors when modifying imaging planes and sequences to achieve optimal visualization of the prostate, scrotom or testicles | | | |
| 90 | L8 or 9.9 Optimize imaging parameters for the prostate, scrotom or testicles | | | |
| 91 | L8 or 9.10 Select the optimal imaging options for each pulse sequence for prostate, scrotom or testicles | | | |
| 92 | L8 or 9 11 Determine the limit and extent of image coverage for the prostate, scrotom or testicles | | | |
| | **Total** | | | |

Total:

$$\frac{\text{(\# of YES)}}{92 - \text{(\# of N/A)}} = \frac{\quad}{\quad} = \quad \%$$

Must attain a minimum of 60 % to achieve satisfactory results

The evaluating Technologist reserves the right to fail the student regardless of the number of “No’s” if there was a critical error.
Example: the exam was done perfectly but the patient had a pacemaker.

_____
Student Signature Date

_____
Evaluators Signature Date

# Competency Modules G and H: MRA/MRV

FANSHAWE
Faculty of Health Sciences
& Human Services

## Module A, B, C, F, H: Clinical Competency Evaluation: MR Head Venography /Angiography

**Attempt ____**

**Patient number _____Date of Competency_____**

| | Competency | YES | NO | N/A |
|---|---|---|---|---|
| **A1 Demonstrates critical thinking** | | | | |
| 1 | A1.1 Apply critical thinking and problem solving strategies to ensure best practices | | | |
| **A2 Practice in accordance with legislation, regulations and ethical guidelines related to the profession** | | | | |
| 2 | A2.1 Practice patient care that protects the patient's legal rights | | | |
| 3 | A2.3 Perform all duties in compliance with sexual abuse prevention guidelines | | | |
| 4 | A2.4 Practice in accordance with national associations/provincial regulatory body's code of ethics | | | |
| 5 | A2.5 Practice within scope of practice in accordance regulatory body legislation requirements | | | |
| 6 | A2.6 Practice in accordance with regulatory body standards of practice | | | |
| 7 | A2.7 Practice in accordance with legislation regulations/ By- laws regulating medical radiation technologists | | | |
| **A3 Demonstrate professional behaviours** | | | | |
| 8 | A3.1 Demonstrate respect and sensitivity in both patient and professional interactions | | | |
| 9 | A3.2 Utilize stress management techniques | | | |
| 10 | A3.3 Utilize conflict management techniques | | | |
| 11 | A3.5 Exchange knowledge /skills with other members of health care teams to promote collaborative practice | | | |
| 12 | A3.8 Present a professional appearance manner | | | |
| **A7 Participate in resource management** | | | | |
| 13 | A7.1 Prioritize workflow to optimize patient outcomes | | | |
| 14 | A7.2 Monitor inventory of materials and supplies | | | |
| **B1 Provide a safe environment to minimize the risk of adverse events to the patient and to staff** | | | | |
| 15 | B1.1 Provide a safe, clean and comfortable environment | | | |
| 16 | B1.2 Transport the patient safely using equipment based on the patients physical and cognitive needs and resources available | | | |
| 17 | B1.3 Transfer the patient safely using equipment and techniques based on the patients physical and cognitive needs | | | |
| 18 | B1.4 Employ proper body mechanics to prevent harm to self and patient | | | |
| 19 | B1.5 Implement immobilization based on age, physical and cognitive status of the patient and type of procedure | | | |
| 20 | B1.6 Adjust the patients position to prevent harm and promote comfort | | | |
| 21 | B1.7 Verify patients identity following standardized protocol | | | |
| 22 | B1.8 Assess documentation for compliance with legal requirements | | | |
| 23 | B1.9 Complete documentation for compliance with regulations | | | |
| | **B 2 Interact within the healthcare environment** | | | |
| 24 | B2.1 Establish patient rapport | | | |
| 25 | B2.2 Use various forms of communication to provide relevant, accurate, and complete information | | | |
| 26 | B2.3 Exchange information regarding details of the procedure with patients and their support persons, to enable them to make informed decisions | | | |
| 27 | B2.4 Assess and Respond to cultural, ethnic, linguistic, religious and socioeconomic variable affecting communication | | | |
| **B3 Perform patient assessments and medical interventions within scope of practice in accordance with provincial regulatory body's legislation requirements.** | | | | |
| 28 | B3.1 Perform patient assessment | | | |
| 29 | B3.2 Assess, monitor and respond to various levels of patient status | | | |
| 30 | B3.3 Perform /participate in medical interventions | | | |
| 31 | B3.4 Assess, monitor and respond to the patients therapeutic and supportive devices to ensure patient safety and comfort | | | |

| | Competency | YES | NO | N/A |
|---|---|---|---|---|
| 32 | B3.5 Ensure the patient's needs are met prior to release from the technologist's care | | | |
| **B4 Implement infection control practices** | | | | |
| 33 | B4.1 Understand transmission mode of nosocomial infections (host, agent and environment) | | | |
| 34 | B4.2 Utilize routine practices for preventing the transmission of infection in health care | | | |
| 35 | B4.3 Apply principles of asepsis | | | |
| 36 | B4.4 Apply protocols when handling and disposing contaminated and biohazard materials such as sharps and body fluids | | | |
| 37 | B4.5 Adhere to protective environment protocols with patients who have compromised immunity | | | |
| 38 | B4.6 Adhere to protocols when caring for patients with antibiotic resistant organisms | | | |
| 39 | B4.7 Adhere to transmission based precautions for airborne , droplet and contact modes of transmission | | | |
| **B5 Respond to patients hygiene needs** | | | | |
| 40 | B5.1 Assist the patient with personal care | | | |
| **C1 Apply MR safety practices with respect to MR screening** | | | | |
| 41 | C1.1 Ensure that the patient screening forms are completed | | | |
| 42 | C1.2 Demonstrate an understanding of the magnetic properties of foreign objects | | | |
| 43 | C1.3 Determine whether foreign objects in /on the patient's body constitute a contraindication to MR | | | |
| 44 | C1.4 Determine exceptions to contraindications during the screening process | | | |
| 45 | C1.5 Determine patient's pregnancy status and take appropriate action | | | |
| 46 | C1.6 Screen MR personnel and support staff | | | |
| 47 | C1.7 Assess and remove any ancillary contraindicated objects from the patient, MR personnel and Support Staff | | | |
| 48 | C1.8 Identify the safety considerations related to the presence of ferromagnetic equipment/accessories (MR compatible or MR safe) in the magnetic field | | | |
| **C2 Apply safety guidelines with respect to MR bio-effects** | | | | |
| 49 | C2.1 Provide hearing protection to the patient and attending individuals. | | | |
| 50 | C2.6 Utilize safe practice in RF coil and equipment cable placement | | | |
| **F1 Perform duties that are common to all MR Imaging Procedures** | | | | |
| 51 | F1.1 Assess documentation for compliance with legal requirements | | | |
| 52 | F 1.2 Demonstrate an understanding of related disciplines in order to review data available from images and/or reports of previous studies and procedures | | | |
| 53 | F1.3 Utilize the clinical information provided to adapt the requested exam to the individual patient | | | |
| 54 | F1.4 Ascertain the reasons for the MR examination, given an adequate clinical history | | | |
| 55 | F1.5 Adapt the procedure for the patients physical and cognitive condition | | | |
| 56 | F1.6 Monitor patients therapeutic tubes, lines, and supportive devices | | | |
| 57 | F1.7 Utilize equipment for monitoring patient's condition during the MR procedure | | | |
| 58 | F1.8 Enter and verify patient information into the MR system | | | |
| 59 | F1.9 Activate, monitor and manage the MR acquisition | | | |
| 60 | F1.10 Maintain communication with the patient throughout the examination | | | |
| 61 | F1.11 Prepare for the administration of contrast media | | | |
| 62 | F1.12 Assess and monitor the patient's condition | | | |
| 63 | F1.13 Recognize adverse reactions | | | |
| 64 | F1.14 Respond to adverse reactions | | | |
| 65 | F1.15 Monitor vital signs | | | |
| 66 | F1.16 Verify accuracy of patient demographics on the image using respective medium | | | |
| 67 | F1.17 Perform post processing to optimize the digital image | | | |
| 68 | F1.20 Recognize and respond to the need for medical consultation before dismissal of the patient | | | |
| 69 | F1.21 Recommend additional sequences in consultation with the physician | | | |
| 70 | F1.22 Ensure the patient's needs are met prior to release from the technologist's care | | | |
| **H1 Perform a Head and Neck Imaging Procedures** | | | | |
| 71 | H1.1 Understand pathology and anomalies related to the body part being examined | | | |

| | Competency | YES | NO | N/A |
|---|---|---|---|---|
| 72 | H1.2 Recognize signal characteristics consistent with pathology and anomalies related to the head and neck | | | |
| 73 | H1.3 Select the appropriate imaging parameters for head and neck imaging procedures | | | |
| 74 | H1.4 Evaluate image quality | | | |
| 75 | H1.5 Evaluate image artifacts and take appropriate action | | | |
| 76 | H1.6 Evaluate the effects of changing imaging parameters and options on the image quality | | | |
| 77 | H1.7 Evaluate the effects of changing imaging parameters and options on the scan time | | | |
| 78 | H1.8 Evaluate the effects of changing imaging parameters and options on the anatomical coverage | | | |
| 79 | H1.9 Evaluate the effects of changing imaging parameters and options on the pathological visualization | | | |
| 80 | H1.10 Evaluate the effects of changing imaging parameters and options on the SAR reduction techniques | | | |
| 81 | H1.11 Understand the use of advanced imaging techniques | | | |
| **H11 Perform a vascular imaging procedure of the brain's vasculature** | | | | |
| 82 | H11.1 Understand gross anatomy, cross sectional anatomy, and physiology of the brain's vasculature | | | |
| 83 | H11.2 Select the optimal coil | | | |
| 84 | H11.3 Set up the injector pump | | | |
| 85 | H11.4 Prepare the patient for a vascular imaging procedure based on the requested protocol and the patients physical and cognitive status | | | |
| 86 | H11.5 Localize for vascular imaging of the brain | | | |
| 87 | H11.6 Determine and select the appropriate pulse sequence for optimal visualization of the brain's vasculature | | | |
| 88 | H11.7 Consider patient related factors when modifying imaging planes and sequences to achieve optimal visualization | | | |
| 89 | H11.8 Optimize imaging parameters for each pulse sequence | | | |
| 90 | H11.9 Select the optimal imaging options for each pulse sequence | | | |
| 91 | H11.10 Determine the limit and extent of image coverage | | | |
| | **Total** | | | |

Total:

$$\frac{(\#\text{ of YES})}{91 - (\#\text{ of N/A})} = \frac{\quad}{\quad} = \quad \%$$

Must attain a minimum of 60 % to achieve satisfactory results

The evaluating Technologist reserves the right to fail the student regardless of the number of "No's" if there was a critical error.
Example: the exam was done perfectly but the patient had a pacemaker.

_____
Student Signature Date

_____
Evaluators Signature Date

## Module A, B, C, F, H: Clinical Competency Evaluation: MR Neck Venography / Angiography Attempt ____

**Patient number** _____**Date of Competency**_____

| | Competency | YES | NO | N/A |
|---|---|---|---|---|
| **A1 Demonstrates critical thinking** | | | | |
| 1 | A1.1 Apply critical thinking and problem solving strategies to ensure best practices | | | |
| **A2 Practice in accordance with legislation, regulations and ethical guidelines related to the profession** | | | | |
| 2 | A2.1 Practice patient care that protects the patient's legal rights | | | |
| 3 | A2.3 Perform all duties in compliance with sexual abuse prevention guidelines | | | |
| 4 | A2.4 Practice in accordance with national associations/provincial regulatory body's code of ethics | | | |
| 5 | A2.5 Practice within scope of practice in accordance regulatory body legislation requirements | | | |
| 6 | A2.6 Practice in accordance with regulatory body standards of practice | | | |
| 7 | A2.7 Practice in accordance with legislation regulations/ By- laws regulating medical radiation technologists | | | |
| **A3 Demonstrate professional behaviours** | | | | |
| 8 | A3.1 Demonstrate respect and sensitivity in both patient and professional interactions | | | |
| 9 | A3.2 Utilize stress management techniques | | | |
| 10 | A3.3 Utilize conflict management techniques | | | |
| 11 | A3.5 Exchange knowledge /skills with other members of health care teams to promote collaborative practice | | | |
| 12 | A3.8 Present a professional appearance manner | | | |
| | **A7 Participate in resource management** | | | |
| 13 | A7.1 Prioritize workflow to optimize patient outcomes | | | |
| 14 | A7.2 Monitor inventory of materials and supplies | | | |
| **B1 Provide a safe environment to minimize the risk of adverse events to the patient and to staff** | | | | |
| 15 | B1.1 Provide a safe, clean and comfortable environment | | | |
| 16 | B1.2 Transport the patient safely using equipment based on the patients physical and cognitive needs and resources available | | | |
| 17 | B1.3 Transfer the patient safely using equipment and techniques based on the patients physical and cognitive needs | | | |
| 18 | B1.4 Employ proper body mechanics to prevent harm to self and patient | | | |
| 19 | B1.5 Implement immobilization based on age, physical and cognitive status of the patient and type of procedure | | | |
| 20 | B1.6 Adjust the patients position to prevent harm and promote comfort | | | |
| 21 | B1.7 Verify patients identity following standardized protocol | | | |
| 22 | B1.8 Assess documentation for compliance with legal requirements | | | |
| 23 | B1.9 Complete documentation for compliance with regulations | | | |
| | **B 2 Interact within the healthcare environment** | | | |
| 24 | B2.1 Establish patient rapport | | | |
| 25 | B2.2 Use various forms of communication to provide relevant, accurate, and complete information | | | |
| 26 | B2.3 Exchange information regarding details of the procedure with patients and their support persons, to enable them to make informed decisions | | | |
| 27 | B2.4 Assess and Respond to cultural, ethnic, linguistic, religious and socioeconomic variable affecting communication | | | |
| **B3 Perform patient assessments and medical interventions within scope of practice in accordance with provincial regulatory body's legislation requirements.** | | | | |
| 28 | B3.1 Perform patient assessment | | | |
| 29 | B3.2 Assess, monitor and respond to various levels of patient status | | | |
| 30 | B3.3 Perform /participate in medical interventions | | | |
| 31 | B3.4 Assess, monitor and respond to the patients therapeutic and supportive devices to ensure patient safety and comfort | | | |

| | Competency | YES | NO | N/A |
|---|---|---|---|---|
| 32 | B3.5 Ensure the patient's needs are met prior to release from the technologist's care | | | |
| **B4 Implement infection control practices** | | | | |
| 33 | B4.1 Understand transmission mode of nosocomial infections (host, agent and environment) | | | |
| 34 | B4.2 Utilize routine practices for preventing the transmission of infection in health care | | | |
| 35 | B4.3 Apply principles of asepsis | | | |
| 36 | B4.4 Apply protocols when handling and disposing contaminated and biohazard materials such as sharps and body fluids | | | |
| 37 | B4.5 Adhere to protective environment protocols with patients who have compromised immunity | | | |
| 38 | B4.6 Adhere to protocols when caring for patients with antibiotic resistant organisms | | | |
| 39 | B4.7 Adhere to transmission based precautions for airborne , droplet and contact modes of transmission | | | |
| **B5 Respond to patients hygiene needs** | | | | |
| 40 | B5.1 Assist the patient with personal care | | | |
| **C1 Apply MR safety practices with respect to MR screening** | | | | |
| 41 | C1.1 Ensure that the patient screening forms are completed | | | |
| 42 | C1.2 Demonstrate an understanding of the magnetic properties of foreign objects | | | |
| 43 | C1.3 Determine whether foreign objects in /on the patient's body constitute a contraindication to MR | | | |
| 44 | C1.4 Determine exceptions to contraindications during the screening process | | | |
| 45 | C1.5 Determine patient's pregnancy status and take appropriate action | | | |
| 46 | C1.6 Screen MR personnel and support staff | | | |
| 47 | C1.7 Assess and remove any ancillary contraindicated objects from the patient, MR personnel and Support Staff | | | |
| 48 | C1.8 Identify the safety considerations related to the presence of ferromagnetic equipment/accessories (MR compatible or MR safe) in the magnetic field | | | |
| **C2 Apply safety guidelines with respect to MR bio-effects** | | | | |
| 49 | C2.1 Provide hearing protection to the patient and attending individuals. | | | |
| 50 | C2.6 Utilize safe practice in RF coil and equipment cable placement | | | |
| **F1 Perform duties that are common to all MR Imaging Procedures** | | | | |
| 51 | F1.1 Assess documentation for compliance with legal requirements | | | |
| 52 | F 1.2 Demonstrate an understanding of related disciplines in order to review data available from images and/or reports of previous studies and procedures | | | |
| 53 | F1.3 Utilize the clinical information provided to adapt the requested exam to the individual patient | | | |
| 54 | F1.4 Ascertain the reasons for the MR examination, given an adequate clinical history | | | |
| 55 | F1.5 Adapt the procedure for the patients physical and cognitive condition | | | |
| 56 | F1.6 Monitor patients therapeutic tubes, lines, and supportive devices | | | |
| 57 | F1.7 Utilize equipment for monitoring patient's condition during the MR procedure | | | |
| 58 | F1.8 Enter and verify patient information into the MR system | | | |
| 59 | F1.9 Activate, monitor and manage the MR acquisition | | | |
| 60 | F1.10 Maintain communication with the patient throughout the examination | | | |
| 61 | F1.11 Prepare for the administration of contrast media | | | |
| 62 | F1.12 Assess and monitor the patient's condition | | | |
| 63 | F1.13 Recognize adverse reactions | | | |
| 64 | F1.14 Respond to adverse reactions | | | |
| 65 | F1.15 Monitor vital signs | | | |
| 66 | F1.16 Verify accuracy of patient demographics on the image using respective medium | | | |
| 67 | F1.17 Perform post processing to optimize the digital image | | | |
| 68 | F1.20 Recognize and respond to the need for medical consultation before dismissal of the patient | | | |
| 69 | F1.21 Recommend additional sequences in consultation with the physician | | | |
| 70 | F1.22 Ensure the patient's needs are met prior to release from the technologist's care | | | |
| **H1 Perform a Head and Neck Imaging Procedures** | | | | |
| 71 | H1.1 Understand pathology and anomalies related to the body part being examined | | | |

| | Competency | YES | NO | N/A |
|---|---|---|---|---|
| 72 | H1.2 Recognize signal characteristics consistent with pathology and anomalies related to the head and neck | | | |
| 73 | H1.3 Select the appropriate imaging parameters for head and neck imaging procedures | | | |
| 74 | H1.4 Evaluate image quality | | | |
| 75 | H1.5 Evaluate image artifacts and take appropriate action | | | |
| 76 | H1.6 Evaluate the effects of changing imaging parameters and options on the image quality | | | |
| 77 | H1.7 Evaluate the effects of changing imaging parameters and options on the scan time | | | |
| 78 | H1.8 Evaluate the effects of changing imaging parameters and options on the anatomical coverage | | | |
| 79 | H1.9 Evaluate the effects of changing imaging parameters and options on the pathological visualization | | | |
| 80 | H1.10 Evaluate the effects of changing imaging parameters and options on the SAR reduction techniques | | | |
| 81 | H1.11 Understand the use of advanced imaging techniques | | | |
| **H15 Perform a vascular imaging procedure of the neck 's vasculature** | | | | |
| 82 | H15.1 Understand gross anatomy, cross sectional anatomy, and physiology of the neck's vasculature | | | |
| 83 | H15.2 Select the optimal coil | | | |
| 84 | H15.3 Set up the injector pump | | | |
| 85 | H15.4 Prepare the patient for a vascular imaging procedure based on the requested protocol and the patients physical and cognitive status | | | |
| 86 | H15.5 Localize for vascular imaging of the neck 's vasculature | | | |
| 87 | H15.6 Determine and select the appropriate pulse sequence for optimal visualization of the neck's vasculature | | | |
| 88 | H15.7 Consider patient related factors when modifying imaging planes and sequences to achieve optimal visualization | | | |
| 89 | H15.8 Optimize imaging parameters for each pulse sequence for neck's vasculature | | | |
| 90 | H15.9 Select the optimal imaging options for each pulse sequence for neck's vasculature | | | |
| 91 | H15.10 Determine the limit and extent of image coverage for neck's vasculature | | | |
| | **Total** | | | |

Total:

$$\frac{(\#\text{ of YES})}{91 - (\#\text{ of N/A})} = \frac{\quad}{\quad} = \quad \%$$

Must attain a minimum of 60 % to achieve satisfactory results

The evaluating Technologist reserves the right to fail the student regardless of the number of "No's" if there was a critical error.
Example: the exam was done perfectly but the patient had a pacemaker.

_____
Student Signature Date

_____
Evaluators Signature Date

## Modules A, B, C, F, and G: Clinical Competency Evaluation: MR Peripheral Venography/ Angiography (observed)

Patient number _____Date of Competency_____

| | **Competency** |
|---|---|
| 1 | A1.1 Apply critical thinking and problem solving strategies to ensure best practices |
| 2 | A2.1 Practice patient care that protects the patient's legal rights |
| 3 | A2.3 Perform all duties in compliance with sexual abuse prevention guidelines |
| 4 | A2.4 Practice in accordance with national associations/provincial regulatory body's code of ethics |
| 5 | A2.5 Practice within scope of practice in accordance regulatory body legislation requirements |
| 6 | A2.6 Practice in accordance with regulatory body standards of practice |
| 7 | A2.7 Practice in accordance with legislation regulations/ By- laws regulating medical radiation technologists |
| 8 | A3.1 Demonstrate respect and sensitivity in both patient and professional interactions |
| 9 | A3.2 Utilize stress management techniques |
| 10 | A3.3 Utilize conflict management techniques |
| 11 | A3.5 Exchange knowledge /skills with other members of health care teams to promote collaborative practice |
| 12 | A3.8 Present a professional appearance manner |
| 13 | A7.1 Prioritize workflow to optimize patient outcomes |
| 14 | A7.2 Monitor inventory of materials and supplies |
| 15 | B1.1 Provide a safe, clean and comfortable environment |
| 16 | B1.2 Transport the patient safely using equipment based on the patients physical and cognitive needs and resources available |
| 17 | B1.3 Transfer the patient safely using equipment and techniques based on the patients physical and cognitive needs |
| 18 | B1.4 Employ proper body mechanics to prevent harm to self and patient |
| 19 | B1.5 Implement immobilization based on age , physical and cognitive status of the patient and type of procedure |
| 20 | B1.6 Adjust the patients position to prevent harm and promote comfort |
| 21 | B1.7 Verify patients identity following standardized protocol |
| 22 | B1.8 Assess documentation for compliance with legal requirements |
| 23 | B1.9 Complete documentation for compliance with regulations |
| 24 | B2.1 Establish patient rapport |
| 25 | B2.2 Use various forms of communication to provide relevant, accurate, and complete information |
| 26 | B2.3 Exchange information regarding details of the procedure with patients and their support persons, to enable them to make informed decisions |
| 27 | B2.4 Assess and Respond to cultural, ethnic, linguistic, religious and socioeconomic variable affecting communication |
| 28 | B3.1 Perform patient assessment |
| 29 | B3.2 Assess, monitor and respond to various levels of patient status |
| 30 | B3.3 Perform /participate in medical interventions |
| 31 | B3.4 Assess, monitor and respond to the patients therapeutic and supportive devices to ensure patient safety and comfort |
| 32 | B3.5 Ensure the patient's needs are met prior to release from the technologist's care |
| | **B4 Implement infection control practices** |
| 33 | B4.1 Understand transmission mode of nosocomial infections (host, agent and environment) |
| 34 | B4.2 Utilize routine practices for preventing the transmission of infection in health care |
| 35 | B4.3 Apply principles of asepsis |
| 36 | B4.4 Apply protocols when handling and disposing contaminated and biohazard materials such as sharps and body fluids |
| 37 | B4.5 Adhere to protective environment protocols with patients who have compromised immunity |
| 38 | B4.6 Adhere to protocols when caring for patients with antibiotic resistant organisms |
| 39 | B4.7 Adhere to transmission based precautions for airborne, droplet and contact modes of transmission |

| | **Competency** |
|---|---|
| 40 | B5.1 Assist the patient with personal care |
| 41 | C1.1 Ensure that the patient screening forms are completed |
| 42 | C1.2 Demonstrate an understanding of the magnetic properties of foreign objects |
| 43 | C1.3 Determine whether foreign objects in /on the patient's body constitute a contraindication to MR |
| 44 | C1.4 Determine exceptions to contraindications during the screening process |
| 45 | C1.5 Determine patient's pregnancy status and take appropriate action |
| 46 | C1.6 Screen MR personnel and support staff |
| 47 | C1.7 Assess and remove any ancillary contraindicated objects from the patient, MR personnel and Support Staff |
| 48 | C1.8 Identify the safety considerations related to the presence of ferromagnetic equipment/accessories (MR compatible or MR safe) in the magnetic field |
| 49 | C2.1 Provide hearing protection to the patient and attending individuals. |
| 50 | C2.6 Utilize safe practice in RF coil and equipment cable placement |
| | **F1 Perform duties that are common to all MR Imaging Procedures** |
| 51 | F1.1 Assess documentation for compliance with legal requirements |
| 52 | F 1.2 Demonstrate an understanding of related disciplines in order to review data available from images and/or reports of previous studies and procedures |
| 53 | F1.3 Utilize the clinical information provided to adapt the requested exam to the individual patient |
| 54 | F1.4 Ascertain the reasons for the MR examination, given an adequate clinical history |
| 55 | F1.5 Adapt the procedure for the patients physical and cognitive condition |
| 56 | F1.6 Monitor patients therapeutic tubes, lines, and supportive devices |
| 57 | F1.7 Utilize equipment for monitoring patient's condition during the MR procedure |
| 58 | F1.8 Enter and verify patient information into the MR system |
| 59 | F1.9 Activate, monitor and manage the MR acquisition |
| 60 | F1.10 Maintain communication with the patient throughout the examination |
| 61 | F1.12 Assess and monitor the patient's condition |
| 62 | F1.13 Recognize adverse reactions |
| 63 | F1.14 Respond to adverse reactions |
| 64 | F1.15 Monitor vital signs |
| 65 | F1.16 Verify accuracy of patient demographics on the image using respective medium |
| 66 | F1.17 Perform post processing to optimize the digital image |
| 67 | F1.20 Recognize and respond to the need for medical consultation before dismissal of the patient |
| 68 | F1.21 Recommend additional sequences in consultation with the physician |
| 69 | F1.22 Ensure the patient's needs are met prior to release from the technologist's care |
| 70 | G1.1 Understand pathology and anomalies related to the musculoskeletal system |
| 71 | G1.2 Recognize signal characteristics consistent with pathology and anomalies related to the musculoskeletal system |
| 72 | G1.3 Select the appropriate imaging parameters for the musculoskeletal imaging procedures |
| 73 | G1.4 Evaluate image quality |
| 74 | G1.5 Evaluate image artifacts and take appropriate action |
| 75 | G1.6 Evaluate the effects of changing imaging parameters and options on the image quality |
| 76 | G1.7 Evaluate the effects of changing imaging parameters and options on the scan time |
| 77 | G1.8 Evaluate the effects of changing imaging parameters and options on the anatomical coverage |
| 78 | G1.9 Evaluate the effects of changing imaging parameters and options on the pathological visualization |
| 79 | G1.10 Evaluate the effects of changing imaging parameters and options on the SAR reduction techniques |
| 80 | G1.11 Understand the use of advanced imaging techniques |
| 81 | G18.1 Understand gross anatomy, cross sectional anatomy, and physiology of peripheral vascular system (arm(s), leg(s) ) |
| 82 | G18.2 Select the optimal coil |
| 83 | G18.3 Set up the injector pump |
| 84 | G18.4 Prepare the patient for the vasculature imaging procedure based on the requested protocol and the patient's physical and cognitive status |
| 85 | G18.5 localise for vascular imaging of the upper /lower peripheral systems |

| | **Competency** |
|---|---|
| 86 | G18.6 Determine and select the appropriate pulse sequences for optimal visualization of the peripheral vascular system |
| 87 | G18.7 Consider patient related factors when modifying imaging planes and sequences to achieve optimal visualization |
| 88 | G18.8 Optimize imaging parameters for each pulse sequence |
| 89 | G18.9 Select the optimal imaging options for each pulse sequence |
| 90 | G18.10 Determine the limit and extent of image coverage |

The evaluating Technologist reserves the right to fail the student" if there was a critical error.

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Student Signature Date

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Evaluator's signature Date

Comments

# Competency Module G: Musculoskeletal

FANSHAWE
Faculty of Health Sciences
& Human Services

## Module A, B, C, F, G: Clinical Competency Evaluation: MR Shoulder Attempt __

**Patient number** _____**Date of Competency**_____

| | Competency | YES | NO | N/A |
|---|---|---|---|---|
| **A1 Demonstrates critical thinking** | | | | |
| 1 | A1.1 Apply critical thinking and problem solving strategies to ensure best practices | | | |
| **A2 Practice in accordance with legislation, regulations and ethical guidelines related to the profession** | | | | |
| 2 | A2.1 Practice patient care that protects the patient's legal rights | | | |
| 3 | A2.3 Perform all duties in compliance with sexual abuse prevention guidelines | | | |
| 4 | A2.4 Practice in accordance with national associations/provincial regulatory body's code of ethics | | | |
| 5 | A2.5 Practice within scope of practice in accordance regulatory body legislation requirements | | | |
| 6 | A2.6 Practice in accordance with regulatory body standards of practice | | | |
| 7 | A2.7 Practice in accordance with legislation regulations/ By- laws regulating medical radiation technologists | | | |
| **A3 Demonstrate professional behaviours** | | | | |
| 8 | A3.1 Demonstrate respect and sensitivity in both patient and professional interactions | | | |
| 9 | A3.2 Utilize stress management techniques | | | |
| 10 | A3.3 Utilize conflict management techniques | | | |
| 11 | A3.5 Exchange knowledge /skills with other members of health care teams to promote collaborative practice | | | |
| 12 | A3.8 Present a professional appearance manner | | | |
| **A7 Participate in resource management** | | | | |
| 13 | A7.1 Prioritize workflow to optimize patient outcomes | | | |
| 14 | A7.2 Monitor inventory of materials and supplies | | | |
| **B1 Provide a safe environment to minimize the risk of adverse events to the patient and to staff** | | | | |
| 15 | B1.1 Provide a safe, clean and comfortable environment | | | |
| 16 | B1.2 Transport the patient safely using equipment based on the patients physical and cognitive needs and resources available | | | |
| 17 | B1.3 Transfer the patient safely using equipment and techniques based on the patients physical and cognitive needs | | | |
| 18 | B1.4 Employ proper body mechanics to prevent harm to self and patient | | | |
| 19 | B1.5 Implement immobilization based on age , physical and cognitive status of the patient and type of procedure | | | |
| 20 | B1.6 Adjust the patients position to prevent harm and promote comfort | | | |
| 21 | B1.7 Verify patients identity following standardized protocol | | | |
| 22 | B1.8 Assess documentation for compliance with legal requirements | | | |
| 23 | B1.9 Complete documentation for compliance with regulations | | | |
| **B 2 Interact within the healthcare environment** | | | | |
| 24 | B2.1 Establish patient rapport | | | |
| 25 | B2.2 Use various forms of communication to provide relevant, accurate, and complete information | | | |
| 26 | B2.3 Exchange information regarding details of the procedure with patients and their support persons, to enable them to make informed decisions | | | |
| 27 | B2.4 Assess and Respond to cultural, ethnic, linguistic, religious and socioeconomic variable affecting communication | | | |
| **B3 Perform patient assessments and medical interventions within scope of practice in accordance with provincial regulatory body's legislation requirements.** | | | | |
| 28 | B3.1 Perform patient assessment | | | |
| 29 | B3.2 Assess, monitor and respond to various levels of patient status | | | |
| 30 | B3.3 Perform /participate in medical interventions | | | |
| 31 | B3.4 Assess, monitor and respond to the patients therapeutic and supportive devices to ensure patient safety and comfort | | | |
| 32 | B3.5 Ensure the patient's needs are met prior to release from the technologist's care | | | |

| | Competency | YES | NO | N/A |
|---|---|---|---|---|
| **B4 Implement infection control practices** | | | | |
| 33 | B4.1 Understand transmission mode of nosocomial infections (host, agent and environment) | | | |
| 34 | B4.2 Utilize routine practices for preventing the transmission of infection in health care | | | |
| 35 | B4.3 Apply principles of asepsis | | | |
| 36 | B4.4 Apply protocols when handling and disposing contaminated and biohazard materials such as sharps and body fluids | | | |
| 37 | B4.5 Adhere to protective environment protocols with patients who have compromised immunity | | | |
| 38 | B4.6 Adhere to protocols when caring for patients with antibiotic resistant organisms | | | |
| 39 | B4.7 Adhere to transmission based precautions for airborne, droplet and contact modes of transmission | | | |
| **B5 Respond to patients hygiene needs** | | | | |
| 40 | B5.1 Assist the patient with personal care | | | |
| **C1 Apply MR safety practices with respect to MR screening** | | | | |
| 41 | C1.1 Ensure that the patient screening forms are completed | | | |
| 42 | C1.2 Demonstrate an understanding of the magnetic properties of foreign objects | | | |
| 43 | C1.3 Determine whether foreign objects in /on the patient's body constitute a contraindication to MR | | | |
| 44 | C1.4 Determine exceptions to contraindications during the screening process | | | |
| 45 | C1.5 Determine patient's pregnancy status and take appropriate action | | | |
| 46 | C1.6 Screen MR personnel and support staff | | | |
| 47 | C1.7 Assess and remove any ancillary contraindicated objects from the patient, MR personnel and Support Staff | | | |
| 48 | C1.8 Identify the safety considerations related to the presence of ferromagnetic equipment/accessories (MR compatible or MR safe) in the magnetic field | | | |
| **C2 Apply safety guidelines with respect to MR bio-effects** | | | | |
| 49 | C2.1 Provide hearing protection to the patient and attending individuals. | | | |
| 50 | C2.6 Utilize safe practice in RF coil and equipment cable placement | | | |
| **F1 Perform duties that are common to all MR Imaging Procedures** | | | | |
| 51 | F1.1 Assess documentation for compliance with legal requirements | | | |
| 52 | F 1.2 Demonstrate an understanding of related disciplines in order to review data available from images and/or reports of previous studies and procedures | | | |
| 53 | F1.3 Utilize the clinical information provided to adapt the requested exam to the individual patient | | | |
| 54 | F1.4 Ascertain the reasons for the MR examination, given an adequate clinical history | | | |
| 55 | F1.5 Adapt the procedure for the patients physical and cognitive condition | | | |
| 56 | F1.6 Monitor patients therapeutic tubes, lines, and supportive devices | | | |
| 57 | F1.7 Utilize equipment for monitoring patient's condition during the MR procedure | | | |
| 58 | F1.8 Enter and verify patient information into the MR system | | | |
| 59 | F1.9 Activate, monitor and manage the MR acquisition | | | |
| 60 | F1.10 Maintain communication with the patient throughout the examination | | | |
| 61 | F1.12 Assess and monitor the patient's condition | | | |
| 62 | F1.13 Recognize adverse reactions | | | |
| 63 | F1.14 Respond to adverse reactions | | | |
| 64 | F1.15 Monitor vital signs | | | |
| 65 | F1.16 Verify accuracy of patient demographics on the image using respective medium | | | |
| 66 | F1.17 Perform post processing to optimize the digital image | | | |
| 67 | F1.20 Recognize and respond to the need for medical consultation before dismissal of the patient | | | |
| 68 | F1.21 Recommend additional sequences in consultation with the physician | | | |
| 69 | F1.22 Ensure the patient's needs are met prior to release from the technologist's care | | | |
| **G1 Perform Musculoskeletal Imaging Procedures** | | | | |
| 70 | G1.1 Understand pathology and anomalies related to the musculoskeletal system | | | |
| 71 | G1.2 Recognize signal characteristics consistent with pathology and anomalies related to the musculoskeletal system | | | |
| 72 | G1.3 Select the appropriate imaging parameters for the musculoskeletal imaging procedures | | | |

| | Competency | YES | NO | N/A |
|---|---|---|---|---|
| 73 | G1.4 Evaluate image quality | | | |
| 74 | G1.5 Evaluate image artifacts and take appropriate action | | | |
| 75 | G1.6 Evaluate the effects of changing imaging parameters and options on the image quality | | | |
| 76 | G1.7 Evaluate the effects of changing imaging parameters and options on the scan time | | | |
| 77 | G1.8 Evaluate the effects of changing imaging parameters and options on the anatomical coverage | | | |
| 78 | G1.9 Evaluate the effects of changing imaging parameters and options on the pathological visualization | | | |
| 79 | G1.10 Evaluate the effects of changing imaging parameters and options on the SAR reduction techniques | | | |
| 80 | G1.11 Understand the use of advanced imaging techniques | | | |
| **G3 Perform shoulder imaging procedure** | | | | |
| 81 | G3.1Understand gross anatomy, cross sectional anatomy, and physiology of the shoulder | | | |
| 82 | G3.2 Select the optimal coil to image the shoulder | | | |
| 83 | G3.3 Prepare the patient for a shoulder imaging procedure based on the requested protocol and the patients physical and cognitive status | | | |
| 84 | G3.4 Position the patient and coil using anatomical landmark and relational anatomy | | | |
| 85 | G3.5 Landmark the shoulder to the positioning light and advance the patient to isocenter | | | |
| 86 | G3.6 Select the optimal imaging plane for the shoulder | | | |
| 87 | G3.7 Determine and select the appropriate pulse sequence for optimal visualization of the shoulder | | | |
| 88 | G3.8 Consider the patient related factors when modifying imaging planes and sequences to achieve optimal visualization of the shoulder | | | |
| 89 | G3.9 Select the optimal imaging options for each pulse sequence for the shoulder | | | |
| 90 | G3.10 Optimize imaging parameters for the shoulder | | | |
| 91 | G3.11 Determine the limit and extent of image coverage for the shoulder | | | |
| | **Total** | | | |

Total:

$$\frac{\text{(\# of YES)}}{91 - \text{(\# of N/A)}} = \frac{\quad}{\quad} = \quad \%$$

Must attain a minimum of 60 % to achieve satisfactory results

The evaluating Technologist reserves the right to fail the student regardless of the number of “No’s” if there was a critical error.
Example: the exam was done perfectly but the patient had a pacemaker.

_____
Student Signature Date

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Evaluator’s signature Date

## Module A, B, C, F, and G: Clinical Competency Evaluation: MR humerus/forearm

**Attempt __**

**Patient number _____Date of Competency_____**

| | Competency | YES | NO | N/A |
|---|---|---|---|---|
| **A1 Demonstrates critical thinking** | | | | |
| 1 | A1.1 Apply critical thinking and problem solving strategies to ensure best practices | | | |
| **A2 Practice in accordance with legislation, regulations and ethical guidelines related to the profession** | | | | |
| 2 | A2.1 Practice patient care that protects the patient's legal rights | | | |
| 3 | A2.3 Perform all duties in compliance with sexual abuse prevention guidelines | | | |
| 4 | A2.4 Practice in accordance with national associations/provincial regulatory body's code of ethics | | | |
| 5 | A2.5 Practice within scope of practice in accordance regulatory body legislation requirements | | | |
| 6 | A2.6 Practice in accordance with regulatory body standards of practice | | | |
| 7 | A2.7 Practice in accordance with legislation regulations/ By- laws regulating medical radiation technologists | | | |
| **A3 Demonstrate professional behaviours** | | | | |
| 8 | A3.1 Demonstrate respect and sensitivity in both patient and professional interactions | | | |
| 9 | A3.2 Utilize stress management techniques | | | |
| 10 | A3.3 Utilize conflict management techniques | | | |
| 11 | A3.5 Exchange knowledge /skills with other members of health care teams to promote collaborative practice | | | |
| 12 | A3.8 Present a professional appearance manner | | | |
| **A7 Participate in resource management** | | | | |
| 13 | A7.1 Prioritize workflow to optimize patient outcomes | | | |
| 14 | A7.2 Monitor inventory of materials and supplies | | | |
| **B1 Provide a safe environment to minimize the risk of adverse events to the patient and to staff** | | | | |
| 15 | B1.1 Provide a safe, clean and comfortable environment | | | |
| 16 | B1.2 Transport the patient safely using equipment based on the patients physical and cognitive needs and resources available | | | |
| 17 | B1.3 Transfer the patient safely using equipment and techniques based on the patients physical and cognitive needs | | | |
| 18 | B1.4 Employ proper body mechanics to prevent harm to self and patient | | | |
| 19 | B1.5 Implement immobilization based on age , physical and cognitive status of the patient and type of procedure | | | |
| 20 | B1.6 Adjust the patients position to prevent harm and promote comfort | | | |
| 21 | B1.7 Verify patients identity following standardized protocol | | | |
| 22 | B1.8 Assess documentation for compliance with legal requirements | | | |
| 23 | B1.9 Complete documentation for compliance with regulations | | | |
| **B 2 Interact within the healthcare environment** | | | | |
| 24 | B2.1 Establish patient rapport | | | |
| 25 | B2.2 Use various forms of communication to provide relevant, accurate, and complete information | | | |
| 26 | B2.3 Exchange information regarding details of the procedure with patients and their support persons, to enable them to make informed decisions | | | |
| 27 | B2.4 Assess and Respond to cultural, ethnic, linguistic, religious and socioeconomic variable affecting communication | | | |
| **B3 Perform patient assessments and medical interventions within scope of practice in accordance with provincial regulatory body's legislation requirements.** | | | | |
| 28 | B3.1 Perform patient assessment | | | |
| 29 | B3.2 Assess, monitor and respond to various levels of patient status | | | |
| 30 | B3.3 Perform /participate in medical interventions | | | |
| 31 | B3.4 Assess, monitor and respond to the patients therapeutic and supportive devices to ensure patient safety and comfort | | | |

| | Competency | YES | NO | N/A |
|---|---|---|---|---|
| 32 | B3.5 Ensure the patient's needs are met prior to release from the technologist's care | | | |
| **B4 Implement infection control practices** | | | | |
| 33 | B4.1 Understand transmission mode of nosocomial infections (host, agent and environment) | | | |
| 34 | B4.2 Utilize routine practices for preventing the transmission of infection in health care | | | |
| 35 | B4.3 Apply principles of asepsis | | | |
| 36 | B4.4 Apply protocols when handling and disposing contaminated and biohazard materials such as sharps and body fluids | | | |
| 37 | B4.5 Adhere to protective environment protocols with patients who have compromised immunity | | | |
| 38 | B4.6 Adhere to protocols when caring for patients with antibiotic resistant organisms | | | |
| 39 | B4.7 Adhere to transmission based precautions for airborne, droplet and contact modes of transmission | | | |
| **B5 Respond to patients hygiene needs** | | | | |
| 40 | B5.1 Assist the patient with personal care | | | |
| **C1 Apply MR safety practices with respect to MR screening** | | | | |
| 41 | C1.1 Ensure that the patient screening forms are completed | | | |
| 42 | C1.2 Demonstrate an understanding of the magnetic properties of foreign objects | | | |
| 43 | C1.3 Determine whether foreign objects in /on the patient's body constitute a contraindication to MR | | | |
| 44 | C1.4 Determine exceptions to contraindications during the screening process | | | |
| 45 | C1.5 Determine patient's pregnancy status and take appropriate action | | | |
| 46 | C1.6 Screen MR personnel and support staff | | | |
| 47 | C1.7 Assess and remove any ancillary contraindicated objects from the patient, MR personnel and Support Staff | | | |
| 48 | C1.8 Identify the safety considerations related to the presence of ferromagnetic equipment/accessories (MR compatible or MR safe) in the magnetic field | | | |
| **C2 Apply safety guidelines with respect to MR bio-effects** | | | | |
| 49 | C2.1 Provide hearing protection to the patient and attending individuals. | | | |
| 50 | C2.6 Utilize safe practice in RF coil and equipment cable placement | | | |
| **F1 Perform duties that are common to all MR Imaging Procedures** | | | | |
| 51 | F1.1 Assess documentation for compliance with legal requirements | | | |
| 52 | F 1.2 Demonstrate an understanding of related disciplines in order to review data available from images and/or reports of previous studies and procedures | | | |
| 53 | F1.3 Utilize the clinical information provided to adapt the requested exam to the individual patient | | | |
| 54 | F1.4 Ascertain the reasons for the MR examination, given an adequate clinical history | | | |
| 55 | F1.5 Adapt the procedure for the patients physical and cognitive condition | | | |
| 56 | F1.6 Monitor patients therapeutic tubes, lines, and supportive devices | | | |
| 57 | F1.7 Utilize equipment for monitoring patient's condition during the MR procedure | | | |
| 58 | F1.8 Enter and verify patient information into the MR system | | | |
| 59 | F1.9 Activate, monitor and manage the MR acquisition | | | |
| 60 | F1.10 Maintain communication with the patient throughout the examination | | | |
| 61 | F1.12 Assess and monitor the patient's condition | | | |
| 62 | F1.13 Recognize adverse reactions | | | |
| 63 | F1.14 Respond to adverse reactions | | | |
| 64 | F1.15 Monitor vital signs | | | |
| 65 | F1.16 Verify accuracy of patient demographics on the image using respective medium | | | |
| 66 | F1.17 Perform post processing to optimize the digital image | | | |
| 67 | F1.20 Recognize and respond to the need for medical consultation before dismissal of the patient | | | |
| 68 | F1.21 Recommend additional sequences in consultation with the physician | | | |
| 69 | F1.22 Ensure the patient's needs are met prior to release from the technologist's care | | | |
| **G1 Perform Musculoskeletal Imaging Procedures** | | | | |
| 70 | G1.1 Understand pathology and anomalies related to the musculoskeletal system | | | |

| | Competency | YES | NO | N/A |
|---|---|---|---|---|
| 71 | G1.2 Recognize signal characteristics consistent with pathology and anomalies related to the musculoskeletal system | | | |
| 72 | G1.3 Select the appropriate imaging parameters for the musculoskeletal imaging procedures | | | |
| 73 | G1.4 Evaluate image quality | | | |
| 74 | G1.5 Evaluate image artifacts and take appropriate action | | | |
| 75 | G1.6 Evaluate the effects of changing imaging parameters and options on the image quality | | | |
| 76 | G1.7 Evaluate the effects of changing imaging parameters and options on the scan time | | | |
| 77 | G1.8 Evaluate the effects of changing imaging parameters and options on the anatomical coverage | | | |
| 78 | G1.9 Evaluate the effects of changing imaging parameters and options on the pathological visualization | | | |
| 79 | G1.10 Evaluate the effects of changing imaging parameters and options on the SAR reduction techniques | | | |
| 80 | G1.11 Understand the use of advanced imaging techniques | | | |
| G4/6 Perform humerus/forearm imaging procedure | | | | |
| 81 | G4/6.1Understand gross anatomy, cross sectional anatomy, and physiology of the humerus/forearm | | | |
| 82 | G4/6.2 Select the optimal coil to image the humerus/forearm | | | |
| 83 | G4/6.3 Prepare the patient for a shoulder imaging procedure based on the requested protocol and the patients physical and cognitive status | | | |
| 84 | G4/6.4 Position the patient and coil using anatomical landmark and relational anatomy | | | |
| 85 | G4/6.5 Landmark the humerus/forearm to the positioning light and advance the patient to isocenter | | | |
| 86 | G4/6.6 Select the optimal imaging plane for the humerus/forearm | | | |
| 87 | G4/6.7 Determine and select the appropriate pulse sequence for optimal visualization of the shoulder | | | |
| 88 | G4/6.8 Consider the patient related factors when modifying imaging planes and sequences to achieve optimal visualization of the humerus/forearm | | | |
| 89 | G4/6.9 Select the optimal imaging options for each pulse sequence for the humerus/forearm | | | |
| 90 | G4/6.10 Optimize imaging parameters for the humerus/forearm | | | |
| 91 | G4/6.11 Determine the limit and extent of image coverage for the humerus/forearm | | | |
| | **Total** | | | |

Total:

$$\frac{\text{(\# of YES)}}{91 - \text{(\# of N/A)}} = \frac{\quad}{\quad} = \quad \%$$

Must attain a minimum of 60 % to achieve satisfactory results

The evaluating Technologist reserves the right to fail the student regardless of the number of “No’s” if there was a critical error.
Example: the exam was done perfectly but the patient had a pacemaker.

_____
Student Signature Date

_____
Evaluator’s signature Date

## Module A, B, C, F, G: Clinical Competency Evaluation: MR Elbow/Wrist Attempt ____

**Patient number** _____**Date** _____

| | Competency | YES | NO | N/A |
|---|---|---|---|---|
| **A1 Demonstrates critical thinking** | | | | |
| 1 | A1.1 Apply critical thinking and problem solving strategies to ensure best practices | | | |
| **A2 Practice in accordance with legislation, regulations and ethical guidelines related to the profession** | | | | |
| 2 | A2.1 Practice patient care that protects the patient's legal rights | | | |
| 3 | A2.3 Perform all duties in compliance with sexual abuse prevention guidelines | | | |
| 4 | A2.4 Practice in accordance with national associations/provincial regulatory body's code of ethics | | | |
| 5 | A2.5 Practice within scope of practice in accordance regulatory body legislation requirements | | | |
| 6 | A2.6 Practice in accordance with regulatory body standards of practice | | | |
| 7 | A2.7 Practice in accordance with legislation regulations/ By- laws regulating medical radiation technologists | | | |
| **A3 Demonstrate professional behaviours** | | | | |
| 8 | A3.1 Demonstrate respect and sensitivity in both patient and professional interactions | | | |
| 9 | A3.2 Utilize stress management techniques | | | |
| 10 | A3.3 Utilize conflict management techniques | | | |
| 11 | A3.5 Exchange knowledge /skills with other members of health care teams to promote collaborative practice | | | |
| 12 | A3.8 Present a professional appearance manner | | | |
| | **A7 Participate in resource management** | | | |
| 13 | A7.1 Prioritize workflow to optimize patient outcomes | | | |
| 14 | A7.2 Monitor inventory of materials and supplies | | | |
| **B1 Provide a safe environment to minimize the risk of adverse events to the patient and to staff** | | | | |
| 15 | B1.1 Provide a safe, clean and comfortable environment | | | |
| 16 | B1.2 Transport the patient safely using equipment based on the patients physical and cognitive needs and resources available | | | |
| 17 | B1.3 Transfer the patient safely using equipment and techniques based on the patients physical and cognitive needs | | | |
| 18 | B1.4 Employ proper body mechanics to prevent harm to self and patient | | | |
| 19 | B1.5 Implement immobilization based on age , physical and cognitive status of the patient and type of procedure | | | |
| 20 | B1.6 Adjust the patients position to prevent harm and promote comfort | | | |
| 21 | B1.7 Verify patients identity following standardized protocol | | | |
| 22 | B1.8 Assess documentation for compliance with legal requirements | | | |
| 23 | B1.9 Complete documentation for compliance with regulations | | | |
| **B 2 Interact within the healthcare environment** | | | | |
| 24 | B2.1 Establish patient rapport | | | |
| 25 | B2.2 Use various forms of communication to provide relevant, accurate, and complete information | | | |
| 26 | B2.3 Exchange information regarding details of the procedure with patients and their support persons, to enable them to make informed decisions | | | |
| 27 | B2.4 Assess and Respond to cultural, ethnic, linguistic, religious and socioeconomic variable affecting communication | | | |
| **B3 Perform patient assessments and medical interventions within scope of practice in accordance with provincial regulatory body's legislation requirements.** | | | | |
| 28 | B3.1 Perform patient assessment | | | |
| 29 | B3.2 Assess, monitor and respond to various levels of patient status | | | |
| 30 | B3.3 Perform /participate in medical interventions | | | |
| 31 | B3.4 Assess, monitor and respond to the patients therapeutic and supportive devices to ensure patient safety and comfort | | | |
| 32 | B3.5 Ensure the patient's needs are met prior to release from the technologist's care | | | |

| | Competency | YES | NO | N/A |
|---|---|---|---|---|
| **B4 Implement infection control practices** | | | | |
| 33 | B4.1 Understand transmission mode of nosocomial infections (host, agent and environment) | | | |
| 34 | B4.2 Utilize routine practices for preventing the transmission of infection in health care | | | |
| 35 | B4.3 Apply principles of asepsis | | | |
| 36 | B4.4 Apply protocols when handling and disposing contaminated and biohazard materials such as sharps and body fluids | | | |
| 37 | B4.5 Adhere to protective environment protocols with patients who have compromised immunity | | | |
| 38 | B4.6 Adhere to protocols when caring for patients with antibiotic resistant organisms | | | |
| 39 | B4.7 Adhere to transmission based precautions for airborne, droplet and contact modes of transmission | | | |
| **B5 Respond to patients hygiene needs** | | | | |
| 40 | B5.1 Assist the patient with personal care | | | |
| **C1 Apply MR safety practices with respect to MR screening** | | | | |
| 41 | C1.1 Ensure that the patient screening forms are completed | | | |
| 42 | C1.2 Demonstrate an understanding of the magnetic properties of foreign objects | | | |
| 43 | C1.3 Determine whether foreign objects in /on the patient's body constitute a contraindication to MR | | | |
| 44 | C1.4 Determine exceptions to contraindications during the screening process | | | |
| 45 | C1.5 Determine patient's pregnancy status and take appropriate action | | | |
| 46 | C1.6 Screen MR personnel and support staff | | | |
| 47 | C1.7 Assess and remove any ancillary contraindicated objects from the patient, MR personnel and Support Staff | | | |
| 48 | C1.8 Identify the safety considerations related to the presence of ferromagnetic equipment/accessories (MR compatible or MR safe) in the magnetic field | | | |
| **C2 Apply safety guidelines with respect to MR bio-effects** | | | | |
| 49 | C2.1 Provide hearing protection to the patient and attending individuals. | | | |
| 50 | C2.6 Utilize safe practice in RF coil and equipment cable placement | | | |
| **F1 Perform duties that are common to all MR Imaging Procedures** | | | | |
| 51 | F1.1 Assess documentation for compliance with legal requirements | | | |
| 52 | F1.2 Demonstrate an understanding of related disciplines in order to review data available from images and/or reports of previous studies and procedures | | | |
| 53 | F1.3 Utilize the clinical information provided to adapt the requested exam to the individual patient | | | |
| 54 | F1.4 Ascertain the reasons for the MR examination, given an adequate clinical history | | | |
| 55 | F1.5 Adapt the procedure for the patients physical and cognitive condition | | | |
| 56 | F1.6 Monitor patients therapeutic tubes, lines, and supportive devices | | | |
| 57 | F1.7 Utilize equipment for monitoring patient's condition during the MR procedure | | | |
| 58 | F1.8 Enter and verify patient information into the MR system | | | |
| 59 | F1.9 Activate, monitor and manage the MR acquisition | | | |
| 60 | F1.10 Maintain communication with the patient throughout the examination | | | |
| 61 | F1.12 Assess and monitor the patient's condition | | | |
| 62 | F1.13 Recognize adverse reactions | | | |
| 63 | F1.14 Respond to adverse reactions | | | |
| 64 | F1.15 Monitor vital signs | | | |
| 65 | F1.16 Verify accuracy of patient demographics on the image using respective medium | | | |
| 66 | F1.17 Perform post processing to optimize the digital image | | | |
| 67 | F1.20Recognize and respond to the need for medical consultation before dismissal of the patient | | | |
| 68 | F1.21 Recommend additional sequences in consultation with the physician | | | |
| 69 | F1.22 Ensure the patient's needs are met prior to release from the technologist's care | | | |
| **G1 Perform Musculoskeletal Imaging Procedures** | | | | |
| 70 | G1.1 Understand pathology and anomalies related to the musculoskeletal system | | | |
| 71 | G1.2 Recognize signal characteristics consistent with pathology and anomalies related to the musculoskeletal system | | | |
| 72 | G1.3 Select the appropriate imaging parameters for the musculoskeletal imaging procedures | | | |

| | Competency | YES | NO | N/A |
|---|---|---|---|---|
| 73 | G1.4 Evaluate image quality | | | |
| 74 | G1.5 Evaluate image artifacts and take appropriate action | | | |
| 75 | G1.6 Evaluate the effects of changing imaging parameters and options on the image quality | | | |
| 76 | G1.7 Evaluate the effects of changing imaging parameters and options on the scan time | | | |
| 77 | G1.8 Evaluate the effects of changing imaging parameters and options on the anatomical coverage | | | |
| 78 | G1.9 Evaluate the effects of changing imaging parameters and options on the pathological visualization | | | |
| 79 | G1.10 Evaluate the effects of changing imaging parameters and options on the SAR reduction techniques | | | |
| 80 | G1.11 Understand the use of advanced imaging techniques | | | |
| **G5 or G7 Perform elbow or wrist imaging procedure** | | | | |
| 81 | G5 or 7.1 Understand gross anatomy, cross sectional anatomy, and physiology of the elbow or wrist | | | |
| 82 | G5 or 7.2 Select the optimal coil to image the elbow or wrist | | | |
| 83 | G5 or 7.3 Prepare the patient for an elbow or wrist imaging procedure based on the requested protocol and the patients physical and cognitive status | | | |
| 84 | G5 or 7.4 Position the patient and coil using anatomical landmark and relational anatomy | | | |
| 85 | G5 or 7.5 Landmark the shoulder to the positioning light and advance the patient to isocenter | | | |
| 86 | G5 or 7.6 Select the optimal imaging plane for the elbow or wrist | | | |
| 87 | G5 or 7.7 Determine and select the appropriate pulse sequence for optimal visualization of the elbow or wrist | | | |
| 88 | G5 or 7.8 Consider the patient related factors when modifying imaging planes and sequences to achieve optimal visualization of the elbow or wrist | | | |
| 89 | G5 or 7.9 Select the optimal imaging options for each pulse sequence for the elbow or wrist | | | |
| 90 | G5 or 7.10 Optimize imaging parameters for the elbow or wrist | | | |
| 91 | G5 or 7.11 Determine the limit and extent of image coverage for the elbow or wrist | | | |
| | **Total** | | | |

Total:

$$\frac{\text{(\# of YES)}}{91 - \text{(\# of N/A)}} = \frac{\quad}{\quad} = \quad \%$$

Must attain a minimum of 60 % to achieve satisfactory results

The evaluating Technologist reserves the right to fail the student regardless of the number of “No’s” if there was a critical error.
Example: the exam was done perfectly but the patient had a pacemaker.

_____
Student Signature Date

_____
Evaluator’s signature Date

## Module A, B, C, F, G: Clinical Competency Evaluation: MR Hips Attempt ____

**Patient number** _____**Date of Competency**_____

| | Competency | YES | NO | N/A |
|---|---|---|---|---|
| **A1 Demonstrates critical thinking** | | | | |
| 1 | A1.1 Apply critical thinking and problem solving strategies to ensure best practices | | | |
| **A2 Practice in accordance with legislation, regulations and ethical guidelines related to the profession** | | | | |
| 2 | A2.1 Practice patient care that protects the patient's legal rights | | | |
| 3 | A2.3 Perform all duties in compliance with sexual abuse prevention guidelines | | | |
| 4 | A2.4 Practice in accordance with national associations/provincial regulatory body's code of ethics | | | |
| 5 | A2.5 Practice within scope of practice in accordance regulatory body legislation requirements | | | |
| 6 | A2.6 Practice in accordance with regulatory body standards of practice | | | |
| 7 | A2.7 Practice in accordance with legislation regulations/ By- laws regulating medical radiation technologists | | | |
| **A3 Demonstrate professional behaviours** | | | | |
| 8 | A3.1 Demonstrate respect and sensitivity in both patient and professional interactions | | | |
| 9 | A3.2 Utilize stress management techniques | | | |
| 10 | A3.3 Utilize conflict management techniques | | | |
| 11 | A3.5 Exchange knowledge /skills with other members of health care teams to promote collaborative practice | | | |
| 12 | A3.8 Present a professional appearance manner | | | |
| **A7 Participate in resource management** | | | | |
| 13 | A 7.1 Prioritize workflow to optimize patient outcomes | | | |
| 14 | A 7.2 Monitor inventory of material and supplies | | | |
| **B1 Provide a safe environment to minimize the risk of adverse events to the patient and to staff** | | | | |
| 15 | B1.1 Provide a safe, clean and comfortable environment | | | |
| 16 | B1.2 Transport the patient safely using equipment based on the patients physical and cognitive needs and resources available | | | |
| 17 | B1.3 Transfer the patient safely using equipment and techniques based on the patients physical and cognitive needs | | | |
| 18 | B1.4 Employ proper body mechanics to prevent harm to self and patient | | | |
| 19 | B1.5 Implement immobilization based on age , physical and cognitive status of the patient and type of procedure | | | |
| 20 | B1.6 Adjust the patients position to prevent harm and promote comfort | | | |
| 21 | B1.7 Verify patients identity following standardized protocol | | | |
| 22 | B1.8 Assess documentation for compliance with legal requirements | | | |
| 23 | B1.9 Complete documentation for compliance with regulations | | | |
| **B 2 Interact within the healthcare environment** | | | | |
| 24 | B2.1 Establish patient rapport | | | |
| 25 | B2.2 Use various forms of communication to provide relevant, accurate, and complete information | | | |
| 26 | B2.3 Exchange information regarding details of the procedure with patients and their support persons, to enable them to make informed decisions | | | |
| 27 | B2.4 Assess and Respond to cultural, ethnic, linguistic, religious and socioeconomic variable affecting communication | | | |
| **B3 Perform patient assessments and medical interventions within scope of practice in accordance with provincial regulatory body's legislation requirements.** | | | | |
| 28 | B3.1 Perform patient assessment | | | |
| 29 | B3.2 Assess, monitor and respond to various levels of patient status | | | |
| 30 | B3.3 Perform /participate in medical interventions | | | |
| 31 | B3.4 Assess, monitor and respond to the patients therapeutic and supportive devices to ensure patient safety and comfort | | | |
| 32 | B3.5 Ensure the patient's needs are met prior to release from the technologist's care | | | |
| **B4 Implement infection control practices** | | | | |

| | Competency | YES | NO | N/A |
|---|---|---|---|---|
| 33 | B4.1 Understand transmission mode of nosocomial infections (host, agent and environment) | | | |
| 34 | B4.2 Utilize routine practices for preventing the transmission of infection in health care | | | |
| 35 | B4.3 Apply principles of asepsis | | | |
| 36 | B4.4 Apply protocols when handling and disposing contaminated and biohazard materials such as sharps and body fluids | | | |
| 37 | B4.5 Adhere to protective environment protocols with patients who have compromised immunity | | | |
| 38 | B4.6 Adhere to protocols when caring for patients with antibiotic resistant organisms | | | |
| 39 | B4.7 Adhere to transmission based precautions for airborne, droplet and contact modes of transmission | | | |
| **B5 Respond to patients hygiene needs** | | | | |
| 40 | B5.1 Assist the patient with personal care | | | |
| **C1 Apply MR safety practices with respect to MR screening** | | | | |
| 41 | C1.1 Ensure that the patient screening forms are completed | | | |
| 42 | C1.2 Demonstrate an understanding of the magnetic properties of foreign objects | | | |
| 43 | C1.3 Determine whether foreign objects in /on the patient's body constitute a contraindication to MR | | | |
| 44 | C1.4 Determine exceptions to contraindications during the screening process | | | |
| 45 | C1.5 Determine patient's pregnancy status and take appropriate action | | | |
| 46 | C1.6 Screen MR personnel and support staff | | | |
| 47 | C1.7 Assess and remove any ancillary contraindicated objects from the patient, MR personnel and Support Staff | | | |
| 48 | C1.8 Identify the safety considerations related to the presence of ferromagnetic equipment/accessories (MR compatible or MR safe) in the magnetic field | | | |
| **C2 Apply safety guidelines with respect to MR bio-effects** | | | | |
| 49 | C2.1 Provide hearing protection to the patient and attending individuals. | | | |
| 50 | C2.6 Utilize safe practice in RF coil and equipment cable placement | | | |
| | **F1 Perform duties that are common to all MR Imaging Procedures** | | | |
| 51 | F1.1 Assess documentation for compliance with legal requirements | | | |
| 52 | F 1.2 Demonstrate an understanding of related disciplines in order to review data available from images and/or reports of previous studies and procedures | | | |
| 53 | F1.3 Utilize the clinical information provided to adapt the requested exam to the individual patient | | | |
| 54 | F1.4 Ascertain the reasons for the MR examination, given an adequate clinical history | | | |
| 55 | F1.5Adapt the procedure for the patients physical and cognitive condition | | | |
| 56 | F1.6 Monitor patients therapeutic tubes, lines, and supportive devices | | | |
| 57 | F1.7 Utilize equipment for monitoring patient's condition during the MR procedure | | | |
| 58 | F1.8 Enter and verify patient information into the MR system | | | |
| 59 | F1.9 Activate, monitor and manage the MR acquisition | | | |
| 60 | F1.10 Maintain communication with the patient throughout the examination | | | |
| 61 | F1.12 Assess and monitor the patient's condition | | | |
| 62 | F1.13 Recognize adverse reactions | | | |
| 63 | F1.14 Respond to adverse reactions | | | |
| 64 | F1.15 Monitor vital signs | | | |
| 65 | F1.16 Verify accuracy of patient demographics on the image using respective medium | | | |
| 66 | F1.17 Perform post processing to optimize the digital image | | | |
| 67 | F1.20 Recognize and respond to the need for medical consultation before dismissal of the patient | | | |
| 68 | F1.21 Recommend additional sequences in consultation with the physician | | | |
| 69 | F1.22 Ensure the patient's needs are met prior to release from the technologist's care | | | |
| **G1 Perform Musculoskeletal Imaging Procedures** | | | | |
| 70 | G1.1 Understand pathology and anomalies related to the musculoskeletal system | | | |
| 71 | G1.2 Recognize signal characteristics consistent with pathology and anomalies related to the musculoskeletal system | | | |
| 72 | G1.3 Select the appropriate imaging parameters for the musculoskeletal imaging procedures | | | |

| | Competency | YES | NO | N/A |
|---|---|---|---|---|
| 73 | G1.4 Evaluate image quality | | | |
| 74 | G1.5 Evaluate image artifacts and take appropriate action | | | |
| 75 | G1.6 Evaluate the effects of changing imaging parameters and options on the image quality | | | |
| 76 | G1.7 Evaluate the effects of changing imaging parameters and options on the scan time | | | |
| 77 | G1.8 Evaluate the effects of changing imaging parameters and options on the anatomical coverage | | | |
| 78 | G1.9 Evaluate the effects of changing imaging parameters and options on the pathological visualization | | | |
| 79 | G1.10 Evaluate the effects of changing imaging parameters and options on the SAR reduction techniques | | | |
| 80 | G1.11 Understand the use of advanced imaging techniques | | | |
| **G11 Perform Hip imaging procedure** | | | | |
| 81 | G11.1 Understand gross anatomy, cross sectional anatomy, and physiology of the hip | | | |
| 82 | G11.2 Select the optimal coil to image the hip | | | |
| 83 | G11.3 Prepare the patient for hip imaging procedure based on the requested protocol and the patients physical and cognitive status | | | |
| 84 | G11.4 Position the patient and coil using anatomical landmark and relational anatomy | | | |
| 85 | G11.5 Landmark the shoulder to the positioning light and advance the patient to isocenter | | | |
| 86 | G11.6 Select the optimal imaging plane for the hip | | | |
| 87 | G11.7 Determine and select the appropriate pulse sequence for optimal visualization of the hip | | | |
| 88 | G11.8 Consider the patient related factors when modifying imaging planes and sequences to achieve optimal visualization of the hip | | | |
| 89 | G11.9 Select the optimal imaging options for each pulse sequence for the hip | | | |
| 90 | G11.10 Optimize imaging parameters for the hip | | | |
| 91 | G11.11 Determine the limit and extent of image coverage for the hip | | | |
| | **Total** | | | |

Total:

$$\frac{\text{(\# of YES)}}{91 - \text{(\# of N/A)}} = \frac{\quad}{\quad} = \quad \%$$

Must attain a minimum of 60 % to achieve satisfactory results

The evaluating Technologist reserves the right to fail the student regardless of the number of “No’s” if there was a critical error.
Example: the exam was done perfectly but the patient had a pacemaker.

_____
Student Signature Date

_____
Evaluator’s signature Date

## Module A, B, C, F, and G: Clinical Competency Evaluation: MR femur/tibfib
**Attempt __**

**Patient number _____Date of Competency_____**

| | Competency | YES | NO | N/A |
|---|---|---|---|---|
| **A1 Demonstrates critical thinking** | | | | |
| 1 | A1.1 Apply critical thinking and problem solving strategies to ensure best practices | | | |
| **A2 Practice in accordance with legislation, regulations and ethical guidelines related to the profession** | | | | |
| 2 | A2.1 Practice patient care that protects the patient's legal rights | | | |
| 3 | A2.3 Perform all duties in compliance with sexual abuse prevention guidelines | | | |
| 4 | A2.4 Practice in accordance with national associations/provincial regulatory body's code of ethics | | | |
| 5 | A2.5 Practice within scope of practice in accordance regulatory body legislation requirements | | | |
| 6 | A2.6 Practice in accordance with regulatory body standards of practice | | | |
| 7 | A2.7 Practice in accordance with legislation regulations/ By- laws regulating medical radiation technologists | | | |
| **A3 Demonstrate professional behaviours** | | | | |
| 8 | A3.1 Demonstrate respect and sensitivity in both patient and professional interactions | | | |
| 9 | A3.2 Utilize stress management techniques | | | |
| 10 | A3.3 Utilize conflict management techniques | | | |
| 11 | A3.5 Exchange knowledge /skills with other members of health care teams to promote collaborative practice | | | |
| 12 | A3.8 Present a professional appearance manner | | | |
| **A7 Participate in resource management** | | | | |
| 13 | A7.1 Prioritize workflow to optimize patient outcomes | | | |
| 14 | A7.2 Monitor inventory of materials and supplies | | | |
| **B1 Provide a safe environment to minimize the risk of adverse events to the patient and to staff** | | | | |
| 15 | B1.1 Provide a safe, clean and comfortable environment | | | |
| 16 | B1.2 Transport the patient safely using equipment based on the patients physical and cognitive needs and resources available | | | |
| 17 | B1.3 Transfer the patient safely using equipment and techniques based on the patients physical and cognitive needs | | | |
| 18 | B1.4 Employ proper body mechanics to prevent harm to self and patient | | | |
| 19 | B1.5 Implement immobilization based on age , physical and cognitive status of the patient and type of procedure | | | |
| 20 | B1.6 Adjust the patients position to prevent harm and promote comfort | | | |
| 21 | B1.7 Verify patients identity following standardized protocol | | | |
| 22 | B1.8 Assess documentation for compliance with legal requirements | | | |
| 23 | B1.9 Complete documentation for compliance with regulations | | | |
| **B 2 Interact within the healthcare environment** | | | | |
| 24 | B2.1 Establish patient rapport | | | |
| 25 | B2.2 Use various forms of communication to provide relevant, accurate, and complete information | | | |
| 26 | B2.3 Exchange information regarding details of the procedure with patients and their support persons, to enable them to make informed decisions | | | |
| 27 | B2.4 Assess and Respond to cultural, ethnic, linguistic, religious and socioeconomic variable affecting communication | | | |
| **B3 Perform patient assessments and medical interventions within scope of practice in accordance with provincial regulatory body's legislation requirements.** | | | | |
| 28 | B3.1 Perform patient assessment | | | |
| 29 | B3.2 Assess, monitor and respond to various levels of patient status | | | |
| 30 | B3.3 Perform /participate in medical interventions | | | |
| 31 | B3.4 Assess, monitor and respond to the patients therapeutic and supportive devices to ensure patient safety and comfort | | | |

| | Competency | YES | NO | N/A |
|---|---|---|---|---|
| 32 | B3.5 Ensure the patient's needs are met prior to release from the technologist's care | | | |
| **B4 Implement infection control practices** | | | | |
| 33 | B4.1 Understand transmission mode of nosocomial infections (host, agent and environment) | | | |
| 34 | B4.2 Utilize routine practices for preventing the transmission of infection in health care | | | |
| 35 | B4.3 Apply principles of asepsis | | | |
| 36 | B4.4 Apply protocols when handling and disposing contaminated and biohazard materials such as sharps and body fluids | | | |
| 37 | B4.5 Adhere to protective environment protocols with patients who have compromised immunity | | | |
| 38 | B4.6 Adhere to protocols when caring for patients with antibiotic resistant organisms | | | |
| 39 | B4.7 Adhere to transmission based precautions for airborne, droplet and contact modes of transmission | | | |
| **B5 Respond to patients hygiene needs** | | | | |
| 40 | B5.1 Assist the patient with personal care | | | |
| **C1 Apply MR safety practices with respect to MR screening** | | | | |
| 41 | C1.1 Ensure that the patient screening forms are completed | | | |
| 42 | C1.2 Demonstrate an understanding of the magnetic properties of foreign objects | | | |
| 43 | C1.3 Determine whether foreign objects in /on the patient's body constitute a contraindication to MR | | | |
| 44 | C1.4 Determine exceptions to contraindications during the screening process | | | |
| 45 | C1.5 Determine patient's pregnancy status and take appropriate action | | | |
| 46 | C1.6 Screen MR personnel and support staff | | | |
| 47 | C1.7 Assess and remove any ancillary contraindicated objects from the patient, MR personnel and Support Staff | | | |
| 48 | C1.8 Identify the safety considerations related to the presence of ferromagnetic equipment/accessories (MR compatible or MR safe) in the magnetic field | | | |
| **C2 Apply safety guidelines with respect to MR bio-effects** | | | | |
| 49 | C2.1 Provide hearing protection to the patient and attending individuals. | | | |
| 50 | C2.6 Utilize safe practice in RF coil and equipment cable placement | | | |
| **F1 Perform duties that are common to all MR Imaging Procedures** | | | | |
| 51 | F1.1 Assess documentation for compliance with legal requirements | | | |
| 52 | F 1.2 Demonstrate an understanding of related disciplines in order to review data available from images and/or reports of previous studies and procedures | | | |
| 53 | F1.3 Utilize the clinical information provided to adapt the requested exam to the individual patient | | | |
| 54 | F1.4 Ascertain the reasons for the MR examination, given an adequate clinical history | | | |
| 55 | F1.5 Adapt the procedure for the patients physical and cognitive condition | | | |
| 56 | F1.6 Monitor patients therapeutic tubes, lines, and supportive devices | | | |
| 57 | F1.7 Utilize equipment for monitoring patient's condition during the MR procedure | | | |
| 58 | F1.8 Enter and verify patient information into the MR system | | | |
| 59 | F1.9 Activate, monitor and manage the MR acquisition | | | |
| 60 | F1.10 Maintain communication with the patient throughout the examination | | | |
| 61 | F1.12 Assess and monitor the patient's condition | | | |
| 62 | F1.13 Recognize adverse reactions | | | |
| 63 | F1.14 Respond to adverse reactions | | | |
| 64 | F1.15 Monitor vital signs | | | |
| 65 | F1.16 Verify accuracy of patient demographics on the image using respective medium | | | |
| 66 | F1.17 Perform post processing to optimize the digital image | | | |
| 67 | F1.20 Recognize and respond to the need for medical consultation before dismissal of the patient | | | |
| 68 | F1.21 Recommend additional sequences in consultation with the physician | | | |
| 69 | F1.22 Ensure the patient's needs are met prior to release from the technologist's care | | | |
| **G1 Perform Musculoskeletal Imaging Procedures** | | | | |
| 70 | G1.1 Understand pathology and anomalies related to the musculoskeletal system | | | |

| | Competency | YES | NO | N/A |
|---|---|---|---|---|
| 71 | G1.2 Recognize signal characteristics consistent with pathology and anomalies related to the musculoskeletal system | | | |
| 72 | G1.3 Select the appropriate imaging parameters for the musculoskeletal imaging procedures | | | |
| 73 | G1.4 Evaluate image quality | | | |
| 74 | G1.5 Evaluate image artifacts and take appropriate action | | | |
| 75 | G1.6 Evaluate the effects of changing imaging parameters and options on the image quality | | | |
| 76 | G1.7 Evaluate the effects of changing imaging parameters and options on the scan time | | | |
| 77 | G1.8 Evaluate the effects of changing imaging parameters and options on the anatomical coverage | | | |
| 78 | G1.9 Evaluate the effects of changing imaging parameters and options on the pathological visualization | | | |
| 79 | G1.10 Evaluate the effects of changing imaging parameters and options on the SAR reduction techniques | | | |
| 80 | G1.11 Understand the use of advanced imaging techniques | | | |
| G12/14 Perform femur/tibfib imaging procedure | | | | |
| 81 | G12/14.1Understand gross anatomy, cross sectional anatomy, and physiology of the femur/tibfib | | | |
| 82 | G12/14.2 Select the optimal coil to image the femur/tibfib | | | |
| 83 | G12/14.3 Prepare the patient for a shoulder imaging procedure based on the requested protocol and the patients physical and cognitive status | | | |
| 84 | G12/14.4 Position the patient and coil using anatomical landmark and relational anatomy | | | |
| 85 | G12/14.5 Landmark the humerus/forearm to the positioning light and advance the patient to isocenter | | | |
| 86 | G12/14.6 Select the optimal imaging plane for the femur/tibfib | | | |
| 87 | G12/14.7 Determine and select the appropriate pulse sequence for optimal visualization of the femur/tibfib | | | |
| 88 | G12/14.8 Consider the patient related factors when modifying imaging planes and sequences to achieve optimal visualization of the femur/tibfib | | | |
| 89 | G12/14.9 Select the optimal imaging options for each pulse sequence for the femur/tibfib | | | |
| 90 | G12/14.10 Optimize imaging parameters for the femur/tibfib | | | |
| 91 | G12/14.11 Determine the limit and extent of image coverage for the femur/tibfib | | | |
| | **Total** | | | |

Total:

$$\frac{(\#\text{ of YES})}{91 - (\#\text{ of N/A})} = \frac{\quad}{\quad} = \quad \%$$

Must attain a minimum of 60 % to achieve satisfactory results

The evaluating Technologist reserves the right to fail the student regardless of the number of “No’s” if there was a critical error.
Example: the exam was done perfectly but the patient had a pacemaker.

_____
Student Signature Date

_____

## Module A, B, C, F, G: Clinical Competency Evaluation: MR Knee Attempt ____

**patient number _____Date of Competency_____**

| | Competency | YES | NO | N/A |
|---|---|---|---|---|
| **A1 Demonstrates critical thinking** | | | | |
| 1 | A1.1 Apply critical thinking and problem solving strategies to ensure best practices | | | |
| **A2 Practice in accordance with legislation, regulations and ethical guidelines related to the profession** | | | | |
| 2 | A2.1 Practice patient care that protects the patient's legal rights | | | |
| 3 | A2.3 Perform all duties in compliance with sexual abuse prevention guidelines | | | |
| 4 | A2.4 Practice in accordance with national associations/provincial regulatory body's code of ethics | | | |
| 5 | A2.5 Practice within scope of practice in accordance regulatory body legislation requirements | | | |
| 6 | A2.6 Practice in accordance with regulatory body standards of practice | | | |
| 7 | A2.7 Practice in accordance with legislation regulations/ By- laws regulating medical radiation technologists | | | |
| **A3 Demonstrate professional behaviours** | | | | |
| 8 | A3.1 Demonstrate respect and sensitivity in both patient and professional interactions | | | |
| 9 | A3.2 Utilize stress management techniques | | | |
| 10 | A3.3 Utilize conflict management techniques | | | |
| 11 | A3.5 Exchange knowledge /skills with other members of health care teams to promote collaborative practice | | | |
| 12 | A3.8 Present a professional appearance manner | | | |
| | **A7 Participate in resource management** | | | |
| 13 | A7.1 Prioritize workflow to optimize patient outcomes | | | |
| 14 | A7.2 Monitor inventory of material and supplies | | | |
| **B1 Provide a safe environment to minimize the risk of adverse events to the patient and to staff** | | | | |
| 15 | B1.1 Provide a safe, clean and comfortable environment | | | |
| 16 | B1.2 Transport the patient safely using equipment based on the patients physical and cognitive needs and resources available | | | |
| 17 | B1.3 Transfer the patient safely using equipment and techniques based on the patients physical and cognitive needs | | | |
| 18 | B1.4 Employ proper body mechanics to prevent harm to self and patient | | | |
| 19 | B1.5 Implement immobilization based on age , physical and cognitive status of the patient and type of procedure | | | |
| 20 | B1.6 Adjust the patients position to prevent harm and promote comfort | | | |
| 21 | B1.7 Verify patients identity following standardized protocol | | | |
| 22 | B1.8 Assess documentation for compliance with legal requirements | | | |
| 23 | B1.9 Complete documentation for compliance with regulations | | | |
| **B 2 Interact within the healthcare environment** | | | | |
| 24 | B2.1 Establish patient rapport | | | |
| 25 | B2.2 Use various forms of communication to provide relevant, accurate, and complete information | | | |
| 26 | B2.3 Exchange information regarding details of the procedure with patients and their support persons, to enable them to make informed decisions | | | |
| 27 | B2.4 Assess and Respond to cultural, ethnic, linguistic, religious and socioeconomic variable affecting communication | | | |
| **B3 Perform patient assessments and medical interventions within scope of practice in accordance with provincial regulatory body's legislation requirements.** | | | | |
| 28 | B3.1 Perform patient assessment | | | |
| 29 | B3.2 Assess, monitor and respond to various levels of patient status | | | |
| 30 | B3.3 Perform /participate in medical interventions | | | |
| 31 | B3.4 Assess, monitor and respond to the patients therapeutic and supportive devices to ensure patient safety and comfort | | | |
| 32 | B3.5 Ensure the patient's needs are met prior to release from the technologist's care | | | |
| **B4 Implement infection control practices** | | | | |

| | Competency | YES | NO | N/A |
|---|---|---|---|---|
| 33 | B4.1 Understand transmission mode of nosocomial infections (host, agent and environment) | | | |
| 34 | B4.2 Utilize routine practices for preventing the transmission of infection in health care | | | |
| 35 | B4.3 Apply principles of asepsis | | | |
| 36 | B4.4 Apply protocols when handling and disposing contaminated and biohazard materials such as sharps and body fluids | | | |
| 37 | B4.5 Adhere to protective environment protocols with patients who have compromised immunity | | | |
| 38 | B4.6 Adhere to protocols when caring for patients with antibiotic resistant organisms | | | |
| 39 | B4.7 Adhere to transmission based precautions for airborne, droplet and contact modes of transmission | | | |
| **B5 Respond to patients hygiene needs** | | | | |
| 40 | B5.1 Assist the patient with personal care | | | |
| **C1 Apply MR safety practices with respect to MR screening** | | | | |
| 41 | C1.1 Ensure that the patient screening forms are completed | | | |
| 42 | C1.2 Demonstrate an understanding of the magnetic properties of foreign objects | | | |
| 43 | C1.3 Determine whether foreign objects in /on the patient's body constitute a contraindication to MR | | | |
| 44 | C1.4 Determine exceptions to contraindications during the screening process | | | |
| 45 | C1.5 Determine patient's pregnancy status and take appropriate action | | | |
| 46 | C1.6 Screen MR personnel and support staff | | | |
| 47 | C1.7 Assess and remove any ancillary contraindicated objects from the patient, MR personnel and Support Staff | | | |
| 48 | C1.8 Identify the safety considerations related to the presence of ferromagnetic equipment/accessories (MR compatible or MR safe) in the magnetic field | | | |
| **C2 Apply safety guidelines with respect to MR bio-effects** | | | | |
| 49 | C2.1 Provide hearing protection to the patient and attending individuals. | | | |
| 50 | C2.6 Utilize safe practice in RF coil and equipment cable placement | | | |
| **F1 Perform duties that are common to all MR Imaging Procedures** | | | | |
| 51 | F1.1 Assess documentation for compliance with legal requirements | | | |
| 52 | F1.2 Demonstrate an understanding of related disciplines in order to review data available from images and/or reports of previous studies and procedures | | | |
| 53 | F1.3 Utilize the clinical information provided to adapt the requested exam to the individual patient | | | |
| 54 | F1.4 Ascertain the reasons for the MR examination, given an adequate clinical history | | | |
| 55 | F1.5 Adapt the procedure for the patients physical and cognitive condition | | | |
| 56 | F1.6 Monitor patients therapeutic tubes, lines, and supportive devices | | | |
| 57 | F1.7 Utilize equipment for monitoring patient's condition during the MR procedure | | | |
| 58 | F1.8 Enter and verify patient information into the MR system | | | |
| 59 | F1.9 Activate, monitor and manage the MR acquisition | | | |
| 60 | F1.10 Maintain communication with the patient throughout the examination | | | |
| 61 | F1.12 Assess and monitor the patient's condition | | | |
| 62 | F1.13 Recognize adverse reactions | | | |
| 63 | F1.14 Respond to adverse reactions | | | |
| 64 | F1.15 Monitor vital signs | | | |
| 65 | F1.16 Verify accuracy of patient demographics on the image using respective medium | | | |
| 66 | F1.17 Perform post processing to optimize the digital image | | | |
| 67 | F1.20 Recognize and respond to the need for medical consultation before dismissal of the patient | | | |
| 68 | F1.21 Recommend additional sequences in consultation with the physician | | | |
| 69 | F1.22 Ensure the patient's needs are met prior to release from the technologist's care | | | |
| **G1 Perform Musculoskeletal Imaging Procedures** | | | | |
| 70 | G1.1 Understand pathology and anomalies related to the musculoskeletal system | | | |
| 71 | G1.2 Recognize signal characteristics consistent with pathology and anomalies related to the musculoskeletal system | | | |
| 72 | G1.3 Select the appropriate imaging parameters for the musculoskeletal imaging procedures | | | |
| 73 | G1.4 Evaluate image quality | | | |

| | Competency | YES | NO | N/A |
|---|---|---|---|---|
| 74 | G1.5 Evaluate image artifacts and take appropriate action | | | |
| 75 | G1.6 Evaluate the effects of changing imaging parameters and options on the image quality | | | |
| 76 | G1.7 Evaluate the effects of changing imaging parameters and options on the scan time | | | |
| 77 | G1.8 Evaluate the effects of changing imaging parameters and options on the anatomical coverage | | | |
| 78 | G1.9 Evaluate the effects of changing imaging parameters and options on the pathological visualization | | | |
| 79 | G1.10 Evaluate the effects of changing imaging parameters and options on the SAR reduction techniques | | | |
| 80 | G1.11 Understand the use of advanced imaging techniques | | | |
| **G13 Perform knee imaging procedure** | | | | |
| 81 | G13.1 Understand gross anatomy, cross sectional anatomy, and physiology of the knee | | | |
| 82 | G13.2 Select the optimal coil to image the knee | | | |
| 83 | G13.3 Prepare the patient for knee imaging procedure based on the requested protocol and the patients physical and cognitive status | | | |
| 84 | G13.4 Position the patient and coil using anatomical landmark and relational anatomy | | | |
| 85 | G13.5 Landmark the shoulder to the positioning light and advance the patient to isocenter | | | |
| 86 | G13.6 Select the optimal imaging plane for the knee | | | |
| 87 | G13.7 Determine and select the appropriate pulse sequence for optimal visualization of the knee | | | |
| 88 | G13.8 Consider the patient related factors when modifying imaging planes and sequences to achieve optimal visualization of the knee | | | |
| 89 | G13.9 Select the optimal imaging options for each pulse sequence for the knee | | | |
| 90 | G13.10 Optimize imaging parameters for the knee | | | |
| 91 | G13.11 Determine the limit and extent of image coverage for the knee | | | |
| | **Total** | | | |

Total:

$$\frac{\text{(\# of YES)}}{91 - \text{(\# of N/A)}} = \frac{\quad}{\quad} = \quad \%$$

Must attain a minimum of 60 % to achieve satisfactory results

The evaluating Technologist reserves the right to fail the student regardless of the number of “No’s” if there was a critical error.
Example: the exam was done perfectly but the patient had a pacemaker.

_____
Student Signature Date

_____
Evaluator’s signature Date

## Module A, B, C, F, G: Clinical Competency Evaluation: MR Ankle/Foot Attempt ____

**Patient number** _____ **Date of Competency**_____

| | Competency | YES | NO | N/A |
|---|---|---|---|---|
| **A1 Demonstrates critical thinking** | | | | |
| 1 | A1.1 Apply critical thinking and problem solving strategies to ensure best practices | | | |
| **A2 Practice in accordance with legislation, regulations and ethical guidelines related to the profession** | | | | |
| 2 | A2.1 Practice patient care that protects the patient's legal rights | | | |
| 3 | A2.3 Perform all duties in compliance with sexual abuse prevention guidelines | | | |
| 4 | A2.4 Practice in accordance with national associations/provincial regulatory body's code of ethics | | | |
| 5 | A2.5 Practice within scope of practice in accordance regulatory body legislation requirements | | | |
| 6 | A2.6 Practice in accordance with regulatory body standards of practice | | | |
| 7 | A2.7 Practice in accordance with legislation regulations/ By- laws regulating medical radiation technologists | | | |
| **A3 Demonstrate professional behaviours** | | | | |
| 8 | A3.1 Demonstrate respect and sensitivity in both patient and professional interactions | | | |
| 9 | A3.2 Utilize stress management techniques | | | |
| 10 | A3.3 Utilize conflict management techniques | | | |
| 11 | A3.5 Exchange knowledge /skills with other members of health care teams to promote collaborative practice | | | |
| 12 | A3.8 Present a professional appearance manner | | | |
| **A7 Participate in resource management** | | | | |
| 13 | A7.1 Prioritize workflow to optimize patient outcomes | | | |
| 14 | A7.2 Monitor inventory of materials and supplies | | | |
| **B1 Provide a safe environment to minimize the risk of adverse events to the patient and to staff** | | | | |
| 15 | B1.1 Provide a safe, clean and comfortable environment | | | |
| 16 | B1.2 Transport the patient safely using equipment based on the patients physical and cognitive needs and resources available | | | |
| 17 | B1.3 Transfer the patient safely using equipment and techniques based on the patients physical and cognitive needs | | | |
| 18 | B1.4 Employ proper body mechanics to prevent harm to self and patient | | | |
| 19 | B1.5 Implement immobilization based on age , physical and cognitive status of the patient and type of procedure | | | |
| 20 | B1.6 Adjust the patients position to prevent harm and promote comfort | | | |
| 21 | B1.7 Verify patients identity following standardized protocol | | | |
| 22 | B1.8 Assess documentation for compliance with legal requirements | | | |
| 23 | B1.9 Complete documentation for compliance with regulations | | | |
| **B 2 Interact within the healthcare environment** | | | | |
| 24 | B2.1 Establish patient rapport | | | |
| 25 | B2.2 Use various forms of communication to provide relevant, accurate, and complete information | | | |
| 26 | B2.3 Exchange information regarding details of the procedure with patients and their support persons, to enable them to make informed decisions | | | |
| 27 | B2.4 Assess and Respond to cultural, ethnic, linguistic, religious and socioeconomic variable affecting communication | | | |
| **B3 Perform patient assessments and medical interventions within scope of practice in accordance with provincial regulatory body's legislation requirements.** | | | | |
| 28 | B3.1 Perform patient assessment | | | |
| 29 | B3.2 Assess, monitor and respond to various levels of patient status | | | |
| 30 | B3.3 Perform /participate in medical interventions | | | |
| 31 | B3.4 Assess, monitor and respond to the patients therapeutic and supportive devices to ensure patient safety and comfort | | | |
| 32 | B3.5 Ensure the patient's needs are met prior to release from the technologist's care | | | |

| | Competency | YES | NO | N/A |
|---|---|---|---|---|
| | **B4 Implement infection control practices** | | | |
| 33 | B4.1 Understand transmission mode of nosocomial infections (host, agent and environment) | | | |
| 34 | B4.2 Utilize routine practices for preventing the transmission of infection in health care | | | |
| 35 | B4.3 Apply principles of asepsis | | | |
| 36 | B4.4 Apply protocols when handling and disposing contaminated and biohazard materials such as sharps and body fluids | | | |
| 37 | B4.5 Adhere to protective environment protocols with patients who have compromised immunity | | | |
| 38 | B4.6 Adhere to protocols when caring for patients with antibiotic resistant organisms | | | |
| 39 | B4.7 Adhere to transmission based precautions for airborne, droplet and contact modes of transmission | | | |
| **B5 Respond to patients hygiene needs** | | | | |
| 40 | B5.1 Assist the patient with personal care | | | |
| **C1 Apply MR safety practices with respect to MR screening** | | | | |
| 41 | C1.1 Ensure that the patient screening forms are completed | | | |
| 42 | C1.2 Demonstrate an understanding of the magnetic properties of foreign objects | | | |
| 43 | C1.3 Determine whether foreign objects in /on the patient's body constitute a contraindication to MR | | | |
| 44 | C1.4 Determine exceptions to contraindications during the screening process | | | |
| 45 | C1.5 Determine patient's pregnancy status and take appropriate action | | | |
| 46 | C1.6 Screen MR personnel and support staff | | | |
| 47 | C1.7 Assess and remove any ancillary contraindicated objects from the patient, MR personnel and Support Staff | | | |
| 48 | C1.8 Identify the safety considerations related to the presence of ferromagnetic equipment/accessories (MR compatible or MR safe) in the magnetic field | | | |
| **C2 Apply safety guidelines with respect to MR bio-effects** | | | | |
| 49 | C2.1 Provide hearing protection to the patient and attending individuals. | | | |
| 50 | C2.6 Utilize safe practice in RF coil and equipment cable placement | | | |
| **F1 Perform duties that are common to all MR Imaging Procedures** | | | | |
| 51 | F1.1 Assess documentation for compliance with legal requirements | | | |
| 52 | F1.2Demonstrate an understanding of related disciplines in order to review data available from images and/or reports of previous studies and procedures | | | |
| 53 | F1.3 Utilize the clinical information provided to adapt the requested exam to the individual patient | | | |
| 54 | F1.4 Ascertain the reasons for the MR examination, given an adequate clinical history | | | |
| 55 | F1.5 Adapt the procedure for the patients physical and cognitive condition | | | |
| 56 | F1.6 Monitor patients therapeutic tubes, lines, and supportive devices | | | |
| 57 | F1.7 Utilize equipment for monitoring patient's condition during the MR procedure | | | |
| 58 | F1.8 Enter and verify patient information into the MR system | | | |
| 59 | F1.9 Activate, monitor and manage the MR acquisition | | | |
| 60 | F1.10 Maintain communication with the patient throughout the examination | | | |
| 61 | F1.12 Assess and monitor the patient's condition | | | |
| 62 | F1.13 Recognize adverse reactions | | | |
| 63 | F1.14 Respond to adverse reactions | | | |
| 64 | F1.15 Monitor vital signs | | | |
| 65 | F1.16 Verify accuracy of patient demographics on the image using respective medium | | | |
| 66 | F1.17 Perform post processing to optimize the digital image | | | |
| 67 | F1.20 Recognize and respond to the need for medical consultation before dismissal of the patient | | | |
| 68 | F1.21 Recommend additional sequences in consultation with the physician | | | |
| 69 | F1.22 Ensure the patient's needs are met prior to release from the technologist's care | | | |
| **G1 Perform Musculoskeletal Imaging Procedures** | | | | |
| 70 | G1.1 Understand pathology and anomalies related to the musculoskeletal system | | | |
| 71 | G1.2 Recognize signal characteristics consistent with pathology and anomalies related to the musculoskeletal system | | | |
| 72 | G1.3 Select the appropriate imaging parameters for the musculoskeletal imaging procedures | | | |

| | Competency | YES | NO | N/A |
|---|---|---|---|---|
| 73 | G1.4 Evaluate image quality | | | |
| 74 | G1.5 Evaluate image artifacts and take appropriate action | | | |
| 75 | G1.6 Evaluate the effects of changing imaging parameters and options on the image quality | | | |
| 76 | G1.7 Evaluate the effects of changing imaging parameters and options on the scan time | | | |
| 77 | G1.8 Evaluate the effects of changing imaging parameters and options on the anatomical coverage | | | |
| 78 | G1.9 Evaluate the effects of changing imaging parameters and options on the pathological visualization | | | |
| 79 | G1.10 Evaluate the effects of changing imaging parameters and options on the SAR reduction techniques | | | |
| 80 | G1.11 Understand the use of advanced imaging techniques | | | |
| **G15 or 16 Perform Foot or ankle imaging procedure** | | | | |
| 81 | G15 or 16.1Understand gross anatomy, cross sectional anatomy, and physiology of the foot or ankle | | | |
| 82 | G15 or 16.2 Select the optimal coil to image the foot or ankle | | | |
| 83 | G15 or 16.3 Prepare the patient for foot or ankle imaging procedure based on the requested protocol and the patients physical and cognitive status | | | |
| 84 | G15 or 16.4 Position the patient and coil using anatomical landmark and relational anatomy | | | |
| 85 | G15 or 16.5 Landmark the foot/ankle to the positioning light and advance the patient to isocenter | | | |
| 86 | G15 or 16.6 Select the optimal imaging plane for the foot or ankle | | | |
| 87 | G15 or 16.7 Determine and select the appropriate pulse sequence for optimal visualization of the foot or ankle | | | |
| 88 | G15 or 16.8 Consider the patient related factors when modifying imaging planes and sequences to achieve optimal visualization of the foot or ankle | | | |
| 89 | G15 or 16.9 Select the optimal imaging options for each pulse sequence for the foot or ankle | | | |
| 90 | G15 or 16.10 Optimize imaging parameters for the foot or ankle | | | |
| 91 | G15 or 16.11 Determine the limit and extent of image coverage for the foot or ankle | | | |
| | **Total** | | | |

Total:

$$\frac{(\#\text{ of YES})}{91 - (\#\text{ of N/A})} = \frac{\quad}{\quad} = \quad \%$$

Must attain a minimum of 60 % to achieve satisfactory results

The evaluating Technologist reserves the right to fail the student regardless of the number of “No’s” if there was a critical error.
Example: the exam was done perfectly but the patient had a pacemaker.

Student Signature Date

Evaluator’s signature Date

# Competency Module D: Quality Management

FANSHAWE
Faculty of Health Sciences
& Human Services

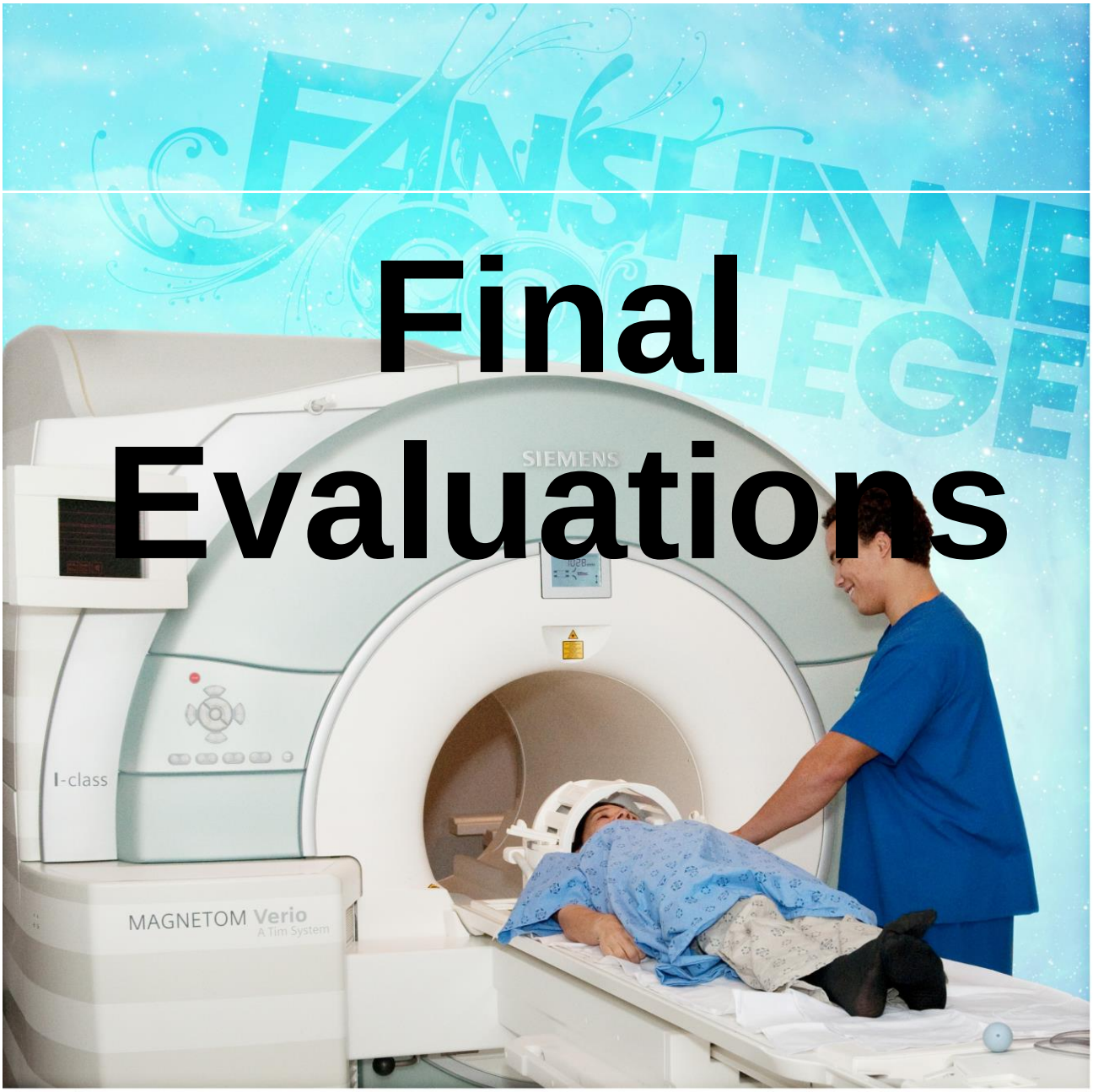
## Module D: Competency Evaluation: Quality Management Attempt ____

| Competency | YES | NO | N/A |
|---|---|---|---|
| **D1 Participate in Quality Assurance Program** | | | |
| D1.1 Participate in activities that support quality assurance | | | |
| D1.1.1 Ensure that technical protocols are updated a required | | | |
| D1.1.2 Ensure the examinations protocols are updated as required | | | |
| D1.1.3 Optimize patient scheduling | | | |
| D 1.1.4 Participate in the revision of departmental policies | | | |
| D 1.1.5 Verify that accurate data is collected, securely stored, and shared only with appropriate persons | | | |
| D 1.1.6 Analyse data to improve departmental outcomes, including | | | |
| D 1.1.6 .1 Identify trends | | | |
| D 1.1.6 .2 Monitor repeat/reject rate | | | |
| D 1.1.6 .3 Monitor calibration of instrument | | | |
| D 1.1.7 Maintain quality control records and charts | | | |
| D 1.1.8 Participate in quality assurance surveys | | | |
| D 1.1.9 Facilitate effective flow and exchange of information with all stakeholders | | | |
| D 1.1.10 Participate in performance appraisal | | | |
| D 1.2 Apply principles of risk management | | | |
| D 1.2.1 Complete an incident report | | | |
| D 1.2.2 Maintain accurate record keeping | | | |
| D 1.2.3 Comply with infection control policies and procedures | | | |
| D 1.2.4 Practice in a manner that will help prevent workplace injuries | | | |
| D 1.2.5 Comply with policies to eliminate workplace harassment | | | |
| D 1.2.6 Promote safe practices to prevent harm to patient and others | | | |
| D 1.2.7 Direct patient with specific concerns to appropriate resource person | | | |
| D 1.2.8 Be familiar with emergency disaster plans | | | |
| D 1.3 Adhere to Workplace Hazardous Materials Information System (WHMIS) regulations and Occupational Health and Safety (OH&S) regulations | | | |
| **D 2 Participate in Quality Control Program** | | | |
| D 2.1 Evaluate the performance of the RF coils according to the manufacturer's specification | | | |
| D 2.2 Evaluate the performance of the cryogen levels according to the manufacturers specification | | | |
| D 2.3 Evaluate the performance of the chiller and cold head (Cryogen reclamation system) according to the manufacturer's specification | | | |
| D 2.4 Evaluate the performance of the magnet according to the manufacturer's specification | | | |
| D 2.4.1 Shim | | | |
| D 2.4.2 Magnet align lights | | | |
| D 2.4.3 Magnet table | | | |
| D 2.5 Evaluate the performance of the display monitors according to the manufacturer's specification | | | |
| D 2.5.1 MR console | | | |
| D 2.5.2 PACS | | | |
| D 2.5.3 Other workstations | | | |
| D 2.6 Evaluate the performance of the accessory equipment according to the manufacturer's specification | | | |
| D 2.6.1 Cardiac gating equipment | | | |
| D 2.6.2 Monitoring equipment | | | |
| D 2.6.3 Power injector | | | |
| D 2.7 Participate in quality control testing using phantoms | | | |
| D 2.8 Document errors | | | |
| D 2.9 Initiate corrective actions to address equipment issues | | | |

| Competency | YES | NO | N/A |
|---|---|---|---|
| D 2.9.1 Ascertain the source of common errors/faults | | | |
| D 2.9.2 Discriminate between system faults and operator errors | | | |
| D 2.9.3 List the steps to run preliminary diagnostic tests for hardware and software errors | | | |
| D 2.9.4 Demonstrate the necessary procedures to reset the system | | | |
| D 2.9.5 Describe a procedure to test a coil fault or malfunction | | | |
| D 2.9.6 Assess the effect of a fault on further scanning | | | |
| D 2.9.7 Troubleshoot effectively before calling for service | | | |

_____
Student Signature Date

_____
Evaluator's signature Date




# Final Evaluations

## Critical Errors

***Critical Errors occur when:***

***Deviation from established protocols and skill performance jeopardizes the safety and/or health of the patient, themselves, and/or others.***

E.g.

1. Safety standards not observed
2. Deviation from screening protocol
3. Medication error
4. Failure to maintain competencies

***AND/OR***

***There are recurrent problems in general clinical protocol and performance during the completion of the clinical competency profiles and/or clinical practicum in general with regards to professional behavior and competency attainment.***

E.g. Refer to Student Responsibilities in the Student Manual

Then a Critical Error Form (Final Evaluation section) will be filed, a review will follow and a committee decision will recommend one of the following: Action, Dismissal, Volunteer Withdrawal, Remediation, or Other

- The student should attempt an examination when he/she feels able to successfully perform the task
- The Competency Profile Summative Evaluation Report can be found in the Final Evaluation section

After the 16 week rotation, all modules and examinations listed in the Competency Profile Summative Evaluation Report must be signed off by the Clinical Coordinator for the Clinical Practicum to be deemed complete

# Critical Error Form

Fanshawe College
MRI Program

FANSHAWE
Faculty of Health Sciences
& Human Services

Attachment included ☐

Incident Date

Brief Description

Preceptor / Clinical Coordinator Notes

Student Notes

Preceptor /Clinical coordinator Name _____ Signature _____ Date _____

Student Name _____ Signature _____ Date _____

Faculty Notes

Faculty Name _____ Signature _____ Date _____

Action: ☐ Dismissal ☐ Voluntary Withdrawal ☐ Remediation ☐ Other

## Student Evaluation of Clinical Coordinator

*Each student must complete the following evaluation of his or her Clinical Coordinator. This evaluation(s) is to be submitted at the conclusion of the clinical practicum during the Consolidation and Review course.*

Clinical Coordinator's Name _____ Date_____

| Competency | YES | NO |
|---|---|---|
| The Clinical Coordinator maintains a professional appearance and demeanour | | |
| The Clinical Coordinator demonstrates a working knowledge of MRI procedures | | |
| The Clinical Coordinator encourages questions and comments | | |
| The Clinical Coordinator offers constructive feedback | | |
| The Clinical Coordinator spends sufficient time assisting students in the performance of MRI scans | | |
| The Clinical Coordinator performs Competency Evaluations thoroughly | | |
| The Clinical Coordinator is familiar with and maintains adherence to the program's policies and procedures | | |
| The Clinical Coordinator relates to students in a concerned and appropriate manner | | |
| I have brought my concerns to the Clinical Coordinator's attention | | |
| I have shared this evaluation with my Clinical Coordinator | | |

Additional Comments: _____

_____

_____

_____
(Signature of Student)

## Student Evaluation of Clinical Site(s)

*Each student must complete the following evaluation of his or her Clinical Site. This evaluation(s) should be submitted at the conclusion of the clinical practicum during the Consolidation and Review course.*

Clinical site: _____ Date_____

| Evaluation criteria | Excellent | Very Good | Good | Fair | NI (needs improvement) |
|---|---|---|---|---|---|
| 1. The staff were friendly | | | | | |
| 2. It was a welcoming environment | | | | | |
| 3. The staff were willing to show me what I needed to learn | | | | | |
| 4. The staff were willing to show me many aspects of the clinical site and let me work in them | | | | | |
| 5. The staff were helpful | | | | | |
| 6. I was given duties to complete independently | | | | | |
| 7. I was given challenging tasks | | | | | |
| 8. I was given personal responsibility | | | | | |
| 9. I enjoyed this clinical environment | | | | | |
| 10. I experienced a lot of variety at this clinical site | | | | | |
| 11. The staff were knowledgeable | | | | | |
| 12. The staff took the time to get to know me | | | | | |
| 13. I was able to attain the majority of my competencies at this clinical site | | | | | |
| 14. I would recommend this clinical site to future MRI students | | | | | |
| 15. The MRI Program prepared me for this clinical experience | | | | | |

Additional Comments: _____

_____

_____

_____

(Signature of Student)

## Clinical Coordinator Evaluation of Student

*Each student must complete the following evaluation of his or her Clinical Site. This evaluation(s) should be submitted at the conclusion of the clinical practicum during the Consolidation and Review course.*

Student's Name _____ Date_____

| **Vocational Outcomes (MTCU 2010)** | Yes | No |
|---|---|---|
| Perform, in accordance with current standards, various magnetic resonance imaging procedures involving the head and neck, spine, chest, abdomen and pelvis, as well as the musculoskeletal and vascular systems. | | |
| Apply the theoretical concepts of physics. | | |
| Ensure the safety of clients and staff when delivering MRI services | | |
| Interact effectively with the clients, and their families. | | |
| Prepare and position the client according to the established protocol, in order to optimize image quality. Prepare and position the client according to the established protocol, in order to optimize image quality. | | |
| Use the MRI equipment, accessories and software efficiently. | | |
| Assess the client's condition during the diagnostic test and/or the procedure and intervene effectively, if necessary. Evaluate MRI system performance, using quality control procedures. | | |
| Apply the theoretical concepts of anatomy, physiology and pathophysiology | | |
| Efficiently transfer and store images, using the various media available (PACS, film, CDs, hard drive). | | |
| Work with the various members of the health care team: radiologists and other physicians, physicists, nursing staff and other health professionals. | | |
| Demonstrate professionalism in the performance of his or her duties as a member of the health care team | | |
| Evaluate MRI system performance, using quality control procedures. | | |
| Use their didactic knowledge effectively and readily in order to perform the clinical procedures listed in the CAMRT Competency Profile | | |

Additional Comments:

_____
_____
_____
_____
_____
_____
_____

(Signature of Clinical Coordinator)

## Competency Profile Summative Evaluation Report

***Instructions:*** *Students are to enter the date the examinations for the 8 module profiles have successfully been completed. Include the Clinical Coordinator's signature for an official record of completion. All of the examinations must be achieved prior to the end of the clinical rotation with the exception of the spine with contrast examination. Only one section of the spine needs to be evaluated with contrast, even though all three sections are listed. ** This has been done to provide some flexibility in the various clinical settings.*

| **Module G and H: Head and Neck** | **Date of Successful Examination** | **Attempt #** | **Percentage Achieved** | **Verifying Clinical Coordinator's Name** | **Signature** |
|---|---|---|---|---|---|
| **Routine** | | | | | |
| **Contrast** | | | | | |
| **Seizures** | | | | | |
| **Sella/ Pituitary** | | | | | |
| **Internal Auditory Canal** | | | | | |
| **Orbits** | | | | | |
| **TMJ** | | | | | |
| **Soft tissue neck** | | | | | |
| **Module G and I: Spine** | **Date of Successful Examination** | **Attempt #** | **Percentage Achieved** | **Verifying Clinical Coordinator's Name** | **Signature** |
| **Routine Cervical Spine** | | | | | |
| **Routine Thoracic Spine** | | | | | |
| **Routine Lumbar Spine** | | | | | |
| **Spine/ Contrast**** | | | | | |
| **Sacral spine/SI joints** | | | | | |
| **Complete spine** | | | | | |
| **Brachial plexus** | | | | | |
| **Module J and K : Thorax /Abdomen** | **Date of Successful Examination** | **Attempt #** | **Percentage Achieved** | **Verifying Clinical Coordinator's Name** | **Signature** |
| **Heart (observed)** | | | **N/A** | | |
| **Great Vessels(Observed)** | | | **N/A** | | |
| **Breast (observed )** | | | **N/A** | | |
| **Liver** | | | | | |
| **MRCP** | | | | | |
| **Pancreas** | | | | | |

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|---|---|---|---|---|---|
| **Kidneys** | | | | | |

(Please submit additional sheets if necessary)

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|---|---|---|---|---|---|
| **Pancreas** | | | | | |
| **Kidneys** | | | | | |
| **Module L: Pelvis (Non Ortho)** | **Date of Successful Examination** | **Attempt #** | **Percentage Achieved** | **Verifying Clinical Coordinator's Name** | **Signature** |
| **Female** | | | | | |
| **Male** | | | | | |
| **Module G and H : MRA/MRV** | **Date of Successful Examination** | **Attempt #** | **Percentage Achieved** | **Verifying Clinical Coordinator's Name** | **Signature** |
| **Head** | | | | | |
| **Neck** | | | | | |
| **Peripheral (observed)** | | | **N/A** | | |
| **Module G: Musculoskeletal** | **Date of Successful Examination** | **Attempt #** | **Percentage Achieved** | **Verifying Clinical Coordinator's Name** | **Signature** |
| **Shoulder** | | | | | |
| **Humerus/forearm** | | | | | |
| **Wrist/ Elbow** | | | | | |
| **Hips** | | | | | |
| **Femur/tibfib** | | | | | |
| **Knees** | | | | | |
| **Foot/ Ankle** | | | | | |
| **Module D: Quality Management** | **Date of Successful Examination** | **Attempt #** | **Percentage Achieved** | **Verifying Clinical Coordinator's Name** | **Signature** |
| **Participate in Quality Assurance Program** | | | | | |
| **Participate in Quality Control Program** | | | | | |

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| Clinical Only Competencies | A1.1 | | D1.1 | | F1.1 | |
| | A4.1 | | D1.3 | | F1.8 | |
| | | | | | F1.9 | |
| | | | | | F1.21 | |

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|---|---|
| Competency Profile reviewed by: | |
| Date of review: | |

For office use only: