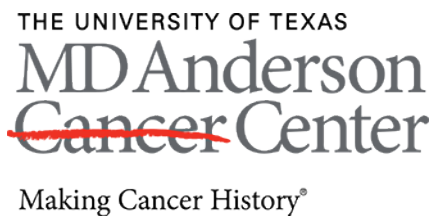




## ***School of Health Professions***



## ***Diagnostic Imaging Program Radiography Emphasis***

# **CLINICAL POLICIES**

## **2022-2023**

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# **Diagnostic Imaging Program Radiography Policies**

DIAGNOSTIC IMAGING PROGRAM POLICY # DI 3.00  
Clinical Education Center Rules and Regulations

DIAGNOSTIC IMAGING PROGRAM POLICY # DI 3.01  
Clinical Supervision

DIAGNOSTIC IMAGING PROGRAM POLICY # DI 3.02  
Clinical Attendance

DIAGNOSTIC IMAGING PROGRAM POLICY # DI 3.03  
Clinical Rotation Assignments

DIAGNOSTIC IMAGING PROGRAM POLICY # DI 3.04  
Clinical Competency Grading and Remediation

DIAGNOSTIC IMAGING PROGRAM POLICY # DI 3.05  
Radiography Simulations

DIAGNOSTIC IMAGING PROGRAM POLICY # DI 3.06  
Radiation Monitoring

DIAGNOSTIC IMAGING PROGRAM POLICY # DI 3.07  
MRI Safety

DIAGNOSTIC IMAGING PROGRAM POLICY # DI 3.08  
Pregnant Radiation Workers/Students

DIAGNOSTIC IMAGING PROGRAM POLICY # DI 3.09  
Clinical Dress and Personal Appearance

DIAGNOSTIC IMAGING PROGRAM POLICY # DI 3.10  
Emergency Medical Care

DIAGNOSTIC IMAGING PROGRAM POLICY # DI 3.11  
Patient Related Incidents

DIAGNOSTIC IMAGING PROGRAM POLICY # DI 3.12  
Student Employment While Attending Clinical Education

DIAGNOSTIC IMAGING PROGRAM POLICY # DI 3.13  
Demonstrating Clinical Competency

DIAGNOSTIC IMAGING PROGRAM POLICY # DI 3.14  
Electronic Devices

DIAGNOSTIC IMAGING PROGRAM POLICY # DI 3.15  
Internet Usage

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Clinical Merits

DIAGNOSTIC IMAGING PROGRAM POLICY # DI 3.17  
Clinical Demerits

DIAGNOSTIC IMAGING PROGRAM POLICY # DI 3.18  
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DIAGNOSTIC IMAGING PROGRAM POLICY # DI 3.19  
Clinical Suspension

DIAGNOSTIC IMAGING PROGRAM POLICY # DI 3.20  
Energized Radiographic Lab

DIAGNOSTIC IMAGING PROGRAM POLICY # DI 3.21  
Clinical Safety

## **CLINICAL EDUCATION CENTER RULES AND REGULATIONS**

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### **PURPOSE**

Due to the multiple Clinical Education Centers affiliated with the DI program, it is possible for conflicts to arise between the policies & procedures of the DI Program and its clinical affiliates. This policy and procedure serve to provide clarification in these situations.

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### **POLICY STATEMENT**

The policies and procedures of the Clinical Education Center always **supersede** the DI Program policies and procedures should such a conflict arise between them. STUDENTS ARE SUBJECT TO ALL OF THE POLICIES AND PROCEDURES OF THE CLINICAL EDUCATION CENTER.

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### **SCOPE**

The entire student body of the Diagnostic Imaging Program - Radiography.

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### **PROCEDURE**

Students will adhere to all policies and procedures of the Clinical Education Center that they are attending.

## CLINICAL SUPERVISION

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### PURPOSE

To ensure patient safety and the best possible care of our patients, clinical supervision is required for all diagnostic imaging students.

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### POLICY STATEMENT

Students are required to work under **DIRECT SUPERVISION** until they have successfully demonstrated competency. After demonstrating competency of a specific examination, the student may perform the examination under **INDIRECT SUPERVISION**.

**Repeat images must be completed under direct supervision. The presence of a qualified radiographer during the repeat of an unsatisfactory image assures patient safety and proper educational practices.**

**Students must be directly supervised during surgical and all mobile, including mobile fluoroscopy, procedures regardless of the level of competency**

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### SCOPE

The entire student body of the Diagnostic Imaging Program Radiography Emphases.

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### PROCEDURE

1.0 The Diagnostic Imaging Program follows the JRCERT definitions for supervision. All clinical supervisors and clinical instructors and preceptors are aware of this policy and agree to assure compliance.

2.0 JRCERT Definitions

- 1.1 **Direct Supervision:** Student supervision by a qualified practitioner who
- reviews the procedure in relation to the student's achievement,
  - evaluates the condition of the patient in relation to the student's knowledge,
  - is physically present during the conduct of the procedure, and
  - reviews and approves the procedure and/or image.

**Students must be directly supervised during surgical and all mobile, including mobile fluoroscopy, procedures regardless of the level of competency**

- 1.2 **Repeat Exams:** The presence of a qualified radiographer during the repeat of an unsatisfactory image assures patient safety and proper educational practices. Direct supervision is mandatory.
- 1.3 **Indirect Supervision:** After demonstrating competency of a specific examination, the student may perform the examination under indirect supervision. A qualified radiographer must be immediately available to assist students regardless of the level of student achievement. Immediately available is interpreted as the physical presence of a qualified practitioner adjacent to the room or location where the radiographic procedure is being performed. This availability applies to all areas where ionizing radiation is in use.

- 1.4 **Qualified Practitioner:** A radiographer or magnetic resonance technologist possessing ARRT certification or equivalent, and active registration in the pertinent discipline and practicing in the profession.
- 3.0 Failure to comply with the supervision or repeat policy is a violation of supervision requirements. The first offense will result in a written reprimand, the second offense placed on clinical probation, and additional incidents will result in dismissal from the program of study.

## **CLINICAL ATTENDANCE**

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### **PURPOSE**

To ensure that adequate time is being spent in clinic to complete assignments, procedure repetitions and competencies, students are required to attend clinical as assigned.

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### **POLICY STATEMENT**

The University of Texas MD Anderson Cancer Center School Of Health Professions Diagnostic Imaging Program is competency-based.

1. The Clinical Faculty will assign students to a clinical affiliate and schedule all rotations within MD Anderson, its satellites, and other clinical education sites.
2. Clinical rotation schedules will reflect equal and equitable experience for all students enrolled in the program. Requested assignments and changes will NOT be made for a student's convenience. Faculty may change schedules for operational/educational purposes ONLY.
3. The clinical and didactic schedule for the Radiography and MRI emphases will not exceed 40 hours per week during the academic semester.
4. Students are required to adhere to the clinical schedule posted in Trajecs. Students are required to be at their assigned clinical area ready to participate in the clinical activities at their assigned arrival time.
5. Students in the Radiography and MRI emphases will not be assigned by the program to more than 10 hours of clinical education in a 24-hour period.
6. Evening, night, and weekend clinical assignments are required to ensure that all students complete the necessary competency requirements.
7. Students are required to take a 30-minute meal break during their assigned clinical shift. Students are REQUIRED to clock in and out for meal breaks in the clinical area at all clinical sites.
8. Please refer to the Absence/Tardiness/Early Departure Report form (see Appendix L) regarding missed clinical time.
9. Students are required to attend scheduled tours and meetings.

---

### **DEFINITIONS**

**Absence:** Time off from a scheduled clinical shift or mandatory school-sponsored events. Please refer to the clinical syllabus regarding excused/unexcused absences.

**Early Departure:** Leaving clinical prior to the scheduled departure time of a clinical shift or school function. Early departure is considered a tardy. Demerits will be assessed in the same manner.

**Make-up time:** Clinical time assigned by the Clinical Faculty and/or Program Director to account for time missed due to excused or unexcused absences from clinical assignment.



**No call/No Show (NC/NS):** Failure to follow the notification procedure and report to an assigned clinical shift. NC/NS is a Severe Attendance Infraction. One NC/NS occurrence will immediately result in clinical probation and 5 demerits per occurrence.

**Pattern:** A series of incidents (tardiness, early departure, unexcused absences, NC/NS, and/or LWP) documented over a period of months. Examples:

- Frequent absences adjacent to institutional holidays.
- A pattern of frequently reporting tardiness or absences from a clinical assignment.

**Personal Time Off (PTO):** excused absence allowance of two (2) clinical shifts per semester.

**Tardy:** When a student reports to his/her clinical rotation after the scheduled start time or returns late from a scheduled break or school function. Demerits will be given for the third occurrence and beyond per semester.

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## SCOPE

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The entire student body of the Diagnostic Imaging Program Radiography Emphases.

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## PROCEDURE

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- 1.0** Students will clock in and out as they enter and leave the clinical setting using approved systems.
- 2.0** In the event of an absence or tardy, the student will notify a Clinical Instructor/Preceptor or Clinical Supervisor directly, by phone prior to the beginning of his or her shift, and send an email to the entire clinical team. Leaving a message is not acceptable.
- 3.0** In the event of an absence, the student will notify the Clinical Faculty via e-mail at least **one hour prior to the beginning of the assigned shift**.
- 4.0** In the event of a tardy arrival, the student will notify the Clinical Faculty via e-mail **upon arrival**.
- 5.0** If clinical shifts are missed in excess of the two (2) PTO shift allowances, they must be made up as assigned by program faculty.
- 6.0** The student is allowed to use the PTO in four (4) hour increments or eight (8) hour increments.

## **CLINICAL ROTATION ASSIGNMENTS**

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### **PURPOSE**

To assure each student receives an equal and valid educational experience. Clinical rotations allow equal opportunity for each student to complete clinical competencies and the requirements for their clinical education.

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### **POLICY STATEMENT**

All students are responsible for completing all procedure repetitions and competencies as outlined in the clinical syllabi. Clinical rotations will be arranged by the Clinical Faculty and must be strictly adhered to. Students will receive a rotation schedule outlining each phase of clinical education at the beginning of each semester. It is the student's responsibility to know and report to the clinical area to which he or she is assigned. Students must have a reliable form of transportation that will enable them to travel to all of the clinical affiliates. The costs of travel, lodging, parking, meals, and other expenses are the student's responsibility. The program does not provide transportation to clinical affiliates.

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### **SCOPE**

The entire student body of the Diagnostic Imaging Program Radiography Emphases.

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### **PROCEDURE**

Students will report on time to their assigned clinical area/site. Students who report to the incorrect clinical site will be considered absent/tardy.

- 1.0** The Clinical Faculty will assign students to a clinical affiliate and schedule all rotations within The University of Texas MD Anderson Cancer Center, its satellites, and other clinical education sites.
- 2.0** Clinical rotation schedules will reflect equal and equitable experience for all students enrolled in the program. Requested assignments and changes will NOT be made for a student's convenience. Faculty may change schedules for operational purposes ONLY. No student schedule change requests will be accepted once the schedule is published.
- 3.0** The clinical and didactic schedule will never exceed 40 hours per week during the academic semester.
- 4.0** Students are required to adhere to the clinical schedule that will be posted in Trajecsyst. At the arrival shift time, students are expected to be at their assigned clinical area ready to participate in the clinical activities.

## **CLINICAL COMPETENCY GRADING AND REMEDICATION**

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### **PURPOSE**

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To have all on-line and/or written competency forms completed by an appropriate clinical evaluator to document clinical competency.

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### **POLICY STATEMENT**

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Demonstrating competency is the primary objective of the clinical experience. The process should be followed closely to ensure the student's success. A clinical competency score of less than 80% is considered a failure and must be repeated. The Radiography curriculum requires the student to successfully pass all didactic and simulation exams prior to proving competency in the clinical setting.

Students must declare that they will challenge an examination for competency prior to the beginning of the procedure. Once the student declares to challenge the competency, he or she is required to complete it. Declaration of the competency attempt can only be revoked by the Clinical Faculty.

All clinical competencies must be completed successfully to complete the Diagnostic Imaging Program.

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### **SCOPE**

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The entire student body of the Diagnostic Imaging Program Radiography Emphases.

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### **PROCEDURE**

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- 1.0** In the event the student fails a competency the student will perform the exam again two times prior to challenging for competency.
- 2.0** In the event, of a second failed competency, the student will be required to perform remediation activities provided by clinical faculty.
- 3.0** Failing a competency on a third attempt will result in the student being placed on clinical probation.

## **RADIOGRAPHY SIMULATIONS**

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### **PURPOSE**

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To have students demonstrate competency from the ARRT content specification projections prior to proving competency in the clinical setting.

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### **POLICY STATEMENT**

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Demonstrating competency is the primary objective of the clinical experience. The process should be followed closely to ensure the student's success.

A simulation competency score of less than 80% is considered a failure and must be repeated after remediation is provided.

All clinical competencies must be completed successfully to complete the Diagnostic Imaging Program.

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### **SCOPE**

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The entire body of the Diagnostic Imaging Program Radiography students.

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### **PROCEDURE**

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#### **1.0 Simulations.**

- 1.1 Following the didactic lectures, the student will be required to pass simulations of the procedures covered during the semester. The ARRT content specifications and lab schedule will be provided.
- 1.2 The student **MUST** pass the simulation with a grade of 80% or above before attempting competency in the clinical setting.
- 1.3 In the event the student fails the simulation, remediation will be provided, and the student will be required to re-test on the failed projection. The original score will stand and be recorded as the simulation grade.
- 1.4 The simulation grade will be included in the Anatomy and Procedure courses.

#### **2.0 Simulation Finals.**

- 3.1 At the end of each semester, the student will be required to pass a comprehensive final simulation. The procedures (3-8 projections) will be taken from the ARRT content specifications. The student must pass the simulations to continue to the next semester.
- 3.2 In the event the student fails the final simulation, remediation will be provided, and the student will be required to re-test on the failed projection and additional projections at the discretion of the Program Faculty.

- 3.3 In the event the student fails the **second** attempt, the student will be placed on clinical probation and with an additional opportunity to remediate on the failed projection and additional projections at the discretion of the Program Faculty.
- 3.4 Continuous failures of final simulations each semester will result in dismissal from the program.
- 3.5 The **FINAL** simulation grade will be included in the final Clinical Education grade.

## RADIATION MONITORING

### PURPOSE

State laws require that all radiation workers be monitored for radiation exposure in the clinical setting. The program will provide the student with a radiation badge. This badge must be worn at all times while in the clinic and care must be taken not to damage the badge.

### POLICY STATEMENT

All standard radiation safety practices must be strictly adhered to for the safety of personnel and patients. A cumulative exposure record is available to the student from the radiation officer and/or the program director.

In restricted areas, controls must be such that no student over 18 years of age will receive in any one calendar year, an occupational radiation effective dose equivalent in excess of the following:

#### Effective Dose Equivalent

Whole body (external deep <sup>a</sup> dose equivalent to the whole body <sup>b</sup> plus the committed <sup>c</sup> organ dose equivalents resulting from internal uptakes of radionuclides, taking into account applicable weighting factors as per subsection 289.202 (f) of 25 TAC 289.	5000 mrem (50 mSv) <sup>d</sup>
Lens of eye (external dose equivalent to the lens <sup>a</sup> of the eye)	15000 mrem (150 mSv) <sup>d</sup>
Extremity (external shallow <sup>a</sup> dose equivalent to an extremity <sup>b</sup> – averaged dose over a 1 cm <sup>2</sup> area)	50000 mrem (500 mSv) <sup>d</sup>
Skin (external shallow <sup>a</sup> dose equivalent to the skin of whole body – averaged over a 1 cm <sup>2</sup> area)	50000 mrem (500 mSv) <sup>d</sup>
Total Organ Dose Equivalent, TODE, (max. committed <sup>c</sup> dose equivalent to any organ or tissue, other than the lens of the eye, plus the whole body external deep dose equivalent)	50000 mrem (500 mSv) <sup>d</sup>

<sup>a</sup> External **deep** dose equivalent is measured (or calculated) for a tissue depth of 1.0 cm (1000 mg/cm<sup>2</sup>); **eye** dose equivalent at a tissue depth of 0.3 cm (300 mg/cm<sup>2</sup>) and **shallow** dose equivalent at a tissue depth of 0.007 cm (7 mg/cm<sup>2</sup>).

<sup>b</sup> External **whole body** doses means doses to the trunk (including male gonads); arms above the elbow; or legs above the knee: **Extremity** means the hands; arms at or below the elbow; feet; or legs at or below the knees).

<sup>c</sup> **Committed** dose equivalent (HT,50) to an organ (or tissue) means the dose equivalent to that organ or tissue of reference (T) that will be received from an intake of radioactive material by an individual during the 50-year period following the intake.

<sup>d</sup> SI units in parentheses.

## Minimum Exposure Limits for Exposure Report Period

Exposure Area	Level I	Level II	Level III	Level IV
Total Effective Dose Equivalent*	200 mrem (2 mSv)**	410 mrem (4.1 mSv)	1250 mrem (12.5 mSv)	5000 mrem (50 mSv)
Extremity: Shallow dose to hands, forearms, lower legs, feet or ankles	2000 mrem (20 mSv)**	4000 mrem (40 mSv)	12500 mrem (125 mSv)	50000 mrem (500 mSv)
Skin of Whole Body: Shallow dose to major portion of skin	2000 mrem (20 mSv)**	4000 mrem (40 mSv)	12500 mrem (125 mSv)	50000 mrem (500 mSv)
Lens of Eye	600 mrem (6 mSv)**	1250 mrem (12.5 mSv)	3750 mrem (37.5 mSv)	15000 mrem (150 mSv)
Total Organ dose Equivalent***	2000 mrem (20 mSv)**	4000 mrem (40 mSv)	12500 mrem (125 mSv)	50000 mrem (500 mSv)

\* TEDE is the deep dose equivalent (from external, whole body exposure) plus the committed effective dose equivalent from internal radionuclide uptakes during the monitoring period. An external exposure to the head, trunk, gonads, arms above the elbow or legs above the knee is considered to constitute a whole body exposure.

\*\* SI units are shown in parentheses.

\*\*\*TODE is the maximum dose equivalent to any organ or tissue not listed above. The TODE is calculated by adding the deep dose equivalent external) and committed dose equivalent to that organ or tissue.

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## SCOPE

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The entire student body of the Diagnostic Imaging Program Radiography Emphases.

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## PROCEDURE

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- 1.0 Each student is issued a Luxel OSL (optically stimulated luminescent) dosimeter.
  - 1.1 The student is required to wear the radiation safety monitoring badges during clinical hours and during energized laboratory experiences.
  - 1.2 Dosimeters are exchanged every quarter by the clinical faculty.
- 2.0 Dosimeters must not be exposed to excessive heat or moisture.
  - 2.1 Dosimeters must be worn in the proper position (outside the protective lead apron, on the collar).
  - 2.2 Results of the radiation monitoring will be available quarterly upon receipt of the report.
  - 2.3 To access your radiation dose history report
    - A. Login to <https://www.myldr.com/WebSelfService/>
    - B. Username: mdanderson

- C. Password: EndCancer77030
- D. Select 85100- MD ANDERSON –QUARTERLY from the drop down menu.
- E. Enter the required numbers from the back of your dosimeter as shown on the webpage.

2.4 It is the responsibility of the students to track their own radiation exposure.

- 3.0 In addition to the established state laws for effective dose equivalents and maximum permissible dose limits and actions taken by the RSO and institution, the Diagnostic Imaging Program wants to establish that for students in their clinical education experience, the administrative dose equivalent limit is 1,000 mrem/yr or 10 mSv/yr. Therefore, investigational action levels set by the Diagnostic Imaging Program at The University of Texas MD Anderson Cancer Center School of Health Professions are as follows:

**A student who receives more than 150 mrem or 1.5 mSv per calendar quarter will be counseled on safe radiation protection practices for the patient, self, and others during imaging exposures.**

- 4.0 Additionally, students who receive radiation badge exposure above maximum permissible dose limits established by NRC will be removed from the clinical setting and the following actions will occur:
- 4.1 Level I - The student and his/her Program Director and Clinical Coordinator are interviewed, by a Radiation Safety Officer (RSO) to determine the reason for the exposure, any specific procedural or other problems during the monitoring period which might account for the exposure and a note is added to the student's exposure report and individual exposure file.
  - 4.2 Level II - The Clinical Coordinator must complete and return an exposure investigation form that is entered into the student's individual exposure file. The student, Program Director and Clinical Coordinator are interviewed by a RSO to determine the reason for the exposure and any specific procedural or other problem that might account for the exposure. Methods are discussed and recommended for avoiding future such exposures.
  - 4.3 Level III - In addition to Level II actions, the RSO (or designee) interviews the student to obtain a detailed account of the person's activities during the monitoring period.
  - 4.4 Level IV - In addition to Level III actions, a report is sent to the TAC giving details of the exposure and procedures instituted to avoid repeated exposures at this level. A copy is entered into the student's individual exposure file. A report is also sent to the person involved and their Program Director and Clinical Coordinator are given the same information as above. A Texas Bureau of Radiation Control (TBRC) inspector will probably investigate the exposure and interview the persons involved. Repeated exposures at this level without reasons acceptable to the RSO and the MD Anderson, Radiation Safety Committee will require the person to be removed from the Diagnostic Imaging Program.

Reference: Appendix G

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## REFERENCES

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Radiation badge self-service dosimetry reports and MD Anderson Safety Manual



## **MRI SAFETY**

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### **PURPOSE**

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This policy and procedure serve to define safe MR practices for MR students and student observers.

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### **POLICY STATEMENT**

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This policy and procedure are based on the *ACR Manual on MR Safety: 2020*.

There are potential risks in the magnetic resonance (MR) environment, not only for the patient but also for the attending health care professionals, including students, who may encounter the magnetic fields and other energy sources associated with MR scanners.

The static magnetic field of the MRI machine is always on requiring that Zones III and IV be secured. Ferromagnetic objects carried into Zone IV can become projectiles that may cause serious injury, death, or equipment failure.

MRI machines generate strong magnetic fields and radio frequencies in the areas within and surrounding the MRI scanner, therefore all individuals must be screened to ensure safety prior to entering Zones III or IV of the MR environments. MR students will be educated to maintain safety in the MR environment prior to beginning clinical rotation assignment.

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### **SCOPE**

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The entire student body of the Diagnostic Imaging Program Radiography Emphases who have been designated by the Medical Director and completed the annual Magnetic Resonance Imaging (MRI) safety training (Basic) within the last 12 months.

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### **DEFINITIONS**

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**Level 1 MR Personnel** – Designated by the MR Medical Director. Individuals who have successfully passed Basic MRI Safety Training, sufficient to ensure their own safety and that they do not pose a potential threat to themselves or others as they work within Zone III within the past 12 months. This includes student observers enrolled in the Diagnostic Imaging Program. Level 1 MR Personnel are permitted unaccompanied access throughout Zones III and IV. Level 1 MR Personnel are not permitted to directly admit or to be responsible for, Non-MR Personnel in Zones III or IV.

**Level 2 MR Personnel** – Those who have been more extensively trained and educated in the broader aspects of MR safety issues, including, but not limited to, RF safety, dB/dt-related safety of time-varying imaging gradients, cryogen safety, contrast agent safety, etc., within the past 12 months. This includes, but is not limited to, MRI technologists, radiologists, and radiology department nursing staff. These personnel are responsible for ensuring the safety of all non-MR Personnel who enter Zone IV.

**Non-MR Personnel** – any individual who has not had MR specific safety training within the past 12 months. This includes but is not limited to, patients and visitors. Non-MR Personnel must be accompanied by, or under the

immediate supervision of and in visual contact with, an individual from Level 2 MR Personnel throughout their stay in Zones III or IV. Level 2 MR Personnel are responsible for the safety of all non-MR Personnel in the MR environment.

Non-MR Personnel are only allowed in Zone IV if they are:

- o screened for any contraindications to exposure to large static magnetic fields, and
- o under direct monitoring of Level 2 MR Personnel.

### **MRI Zoning: MD Anderson's MRI environment is divided into four safety zones.**

**Zone I:** This region includes all areas that are freely accessible to the general public. This zone includes public hallways and other areas by which patients, health care personnel, and other employees of the MR site access the MR environment.

**Zone II:** Interface between the publicly accessible, uncontrolled Zone I and the strictly controlled Zone III. This zone includes the patient preparation and holding areas. Patients are not free to move throughout Zone II at will, but rather under supervision of MR Personnel.

**Zone III:** Within this zone, personnel may be exposed to the regulatory limit (currently, 5 Gauss or greater fringe fields). All access to Zone III is tightly restricted. Anyone entering this zone must be appropriately screened. Non-MR Personnel must be under the direct supervision of Level 2 MR Personnel. This zone includes the MR technical corridors and other restricted access areas near the MR scan rooms. Access doors to this zone must have appropriate signage including, if appropriate, 5 Gauss line markings. Zone III areas should be physically restricted from general public access by a reliable, physically restricting method. Zone III may also extend to other floors as potential magnetic field hazards should be considered for areas above and below the room housing the MR scanner. Any hazard areas identified should be clearly marked and the area controlled.

**Zone IV:** This zone represents the MR scan room. Anyone entering this zone must be appropriately screened and must be Level 1 MR Personnel, Level 2 MR Personnel, or must be directly supervised by Level 2 MR Personnel.

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## **PROCEDURE**

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**1.0 MR SCREENING** All Non-MR Personnel needing to enter Zone III must first pass an MR safety screening process. Before Non-MR Personnel enter Zone III, final authorization must originate from Level 2 MR Personnel.

**1.1** Radiography students and student observers will complete the **UTMDACC Basic MRI Safety Training module** in the online Education Center, which includes a MR safety screening, prior to beginning their clinical rotation assignment. This training is repeated annually.

**1.2** Students should report the following on the screening form:

History of ferromagnetic foreign body penetration: Non-MR Personnel including radiography students with a history of injury or implantation associated with a ferromagnetic foreign body or implant must undergo further investigation prior to being permitted entry to Zone III.

Implanted/onplanted devices: Non-MR Personnel including radiography students with implanted cardiac pacemakers, implantable cardioverter defibrillators (ICDs), diaphragmatic pacemakers, medication pumps, cochlear implants, or other electromechanically activated devices on which the Non-MR Personnel are dependent.

Intracranial aneurysm clips and pacemakers.

**1.3** Students who have been certified Level 1 MR Personnel may personally enter Zones III and IV unaccompanied.

- 1.4** Additionally, they may escort patients and visitors into Zone III; however, MR Students and student observers may not grant any individual access to Zone IV.
- 1.5** MRI students and student observers will not bring ferromagnetic objects into Zone IV.
- 2.0** Only Level 2 MR Personnel from the clinical site may grant an individual access to Zone IV. Students must comply with each clinical site's policies and procedures on MRI safety.

## **PREGNANT RADIATION STUDENTS**

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### **PURPOSE**

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To inform the enrolled female student of the program pregnancy policy and assure the student the policy is consistent with applicable federal regulations and state laws and does not discriminate.

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### **POLICY STATEMENT**

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#### **Diagnostic Imaging Program Radiography, Computed Tomography, and Interventional Emphases**

Exposure to ionizing radiation may pose a risk to the developing fetus. The Diagnostic Imaging Program assures the safety of students through the implementation of published policies and procedures that are in compliance with Nuclear Regulatory Commission (NRC) regulations, state laws that monitors student's radiation exposure data and Title IX regulations.

The enrolled female student must inform program official of pregnancy status so that appropriate radiation safety practices can be implemented to help assure that radiation exposure to the student and fetus are kept as low as reasonably achievable (ALARA). Monitoring of the fetus is not automatic and can only occur through voluntary disclosure. The pregnancy policy of the DI Program contains three vital elements to guide the female student and the procedures taken by program officials. The pregnancy policy must be made known to accepted and enrolled female students, and include:

- a written notice of voluntary declaration,
- an option for written withdrawal of declaration
- an option for student continuance in the program without modification.

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### **SCOPE**

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The entire student body of the Diagnostic Imaging Program Radiography Emphases.

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### **PROCEDURE**

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Upon admittance into the program the female student must read and sign an Acknowledgment of the Pregnancy Policy. Included in the student clinical policy manual is also a copy of the Voluntary Declaration of Pregnancy Form. In the event the female student becomes pregnant and chooses to voluntarily inform the program of her pregnancy status the following steps must occur.

#### **1.0 Diagnostic Imaging Program Radiography**

- 1.1 The student must submit in **writing**, a declaration of pregnancy (see Appendix C) with the expected due date, to the Program Director (PD), Clinical Faculty (CF), and or the Radiation Safety Officer (RSO). **Written** declaration is voluntary, but disclosure is required to begin monitoring the fetus. The student will meet with Program official who will

advise the student about the possible health risks involved as a result of occupational exposure during pregnancy.

- 1.2 The student will meet with the Program official who will advise the student about the possible health risks involved as a result of occupational exposure during pregnancy and discuss radiation safety and radiation biology regarding the fetus.
- 1.3 It is recommended the student inform her health provider the nature of her clinical experiences before this discussion.
- 1.4 Program official and student will discuss the options available to the pregnant student the option for continuance in the program. The student has the following 3 options:

**Option 1 - continuance in the program without modification**

1. The student will complete the form for a second OSL fetal radiation monitoring device.
  - **This device will be worn at waist level at all times and underneath the protective lead apron during fluoroscopy.**
  - **The fetal OSL will be exchanged monthly.**
2. The student must attend all clinical rotations and continue without any changes.
3. The student will review the current clinical rotation schedule with the CC to ensure compliance with the recommended **Effective Dose Equivalent** to the fetus from occupational exposure to the expectant mother. The total occupational dose to the fetus of a declared pregnant worker must not exceed 500 mrem (5 mSv) for the gestational period.
  - If pregnancy occurs during the 1<sup>st</sup> through 5<sup>th</sup> semester of the program and the student continues in the program, the student must make up the time and complete the required competencies before the radiography program completion.
    - (a) The student will be given a grade of **/ (Incomplete)** until all competencies and clinical time are made- up.
    - (b) The student will be allowed to sit for the American Registry of Radiologic Technologist (ARRT) Radiography exam and continue to the final year of the program.
  - If pregnancy occurs during the 6<sup>th</sup> semester of the program and the student continues in the program, the student must make up the clinical time and complete the required competencies before the radiography program completion.
    - (a) The student will be given a grade of **/ (Incomplete)** until all competencies and clinical time are made- up.
    - (b) **The student will be not able to sit for the ARRT Radiography exam until all requirements are met.**
3. The program will notify all appropriate radiology department personnel of the expectant status of the student in order to ensure proper clinical education experiences while

maintaining standards of radiation safety.

### **Option 2 - continuance in the program with modification**

1. The student will complete the form for a second OSL fetal radiation monitoring device.
  - **This device will be worn at waist level at all times and underneath the protective lead apron during fluoroscopy.**
  - **The fetal OSL will be exchanged monthly.**
2. The student will review the current clinical rotation schedule with the CC to ensure compliance with the recommended **Effective Dose Equivalent** to the fetus from occupational exposure to the expectant mother. The total occupational dose to the fetus of a declared pregnant worker must not exceed 500 mrem (5 mSv) for the gestational period.
3. The student and program personnel will discuss modifications to clinical rotations. The student must understand that all missed clinical rotations must be made up at the completion of receiving the **written withdrawal of pregnancy declaration**. A physician clearance is required to return to the clinical rotation.
4. If the student requests modifications that the program cannot reasonably accommodate, the student may take a leave of absence.
5. The student will seek reinstatement once the pregnancy has ended by submitting the **written withdraw of declaration of pregnancy** and request to return to the Program.
6. If more than once year has passed from the first date of withdrawal, the student must reapply to the DI Program.

### **Option 3 - Request for a leave of absence**

1. The student may request the leave of absence by completing the required documentation to withdraw from the Program.
  2. The student will seek reinstatement once the pregnancy has ended by submitting the **written withdraw of declaration of pregnancy** and request to return to the Program.
  3. If more than once year has passed from the first date of withdrawal, the student must reapply to the DI Program.
- 
- 6.0 The student has the **option for written withdrawal of declaration** of pregnancy at any time. Once pregnancy has ended, the student must inform program officials and the RSO in **writing to withdraw declaration of pregnancy**. The fetal monitoring badge must be returned. A doctor's note is required to return to the clinical rotation.
  - 6.1 All forms related to the student's voluntary declaration of pregnancy are kept in the secured student files.

## **CLINICAL DRESS AND PERSONAL APPEARANCE**

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### **PURPOSE**

Students are to abide by the program requirements related to personal appearance, in order to present a positive, well-groomed, and professional appearance; to be easily identified by patients and co-workers; and to maintain safety related to attire for themselves and their patients.

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### **POLICY STATEMENT**

The Program expects each student to present a professional, businesslike image to our patients and to the public while in the workplace. All students are expected to meet the requirements for safety in the conditions they work under and to apply common sense and good taste regarding personal appearance. Students are also expected to follow entity guidelines regarding uniforms and other specifics of personal appearance and grooming.

#### **General Appearance**

1. Clinical scrubs must be clean, properly fitted, and appropriate to the work situation.
2. Only black or white long-sleeve tops can be worn underneath scrub tops.
3. Tattoos should not be visible in the clinical setting.
4. Wearing of tight-fitting, suggestive or see-through attire is prohibited.

#### **Footwear**

1. Clean, comfortable, and closed-toe shoes that are ALL white or ALL black are required. Shoelaces should match accordingly.
2. Hosiery or socks must be worn by students who provide patient care.

#### **Grooming**

1. Good personal hygiene is an essential element of appearance. Students are expected to be clean and to practice good hygiene habits.
2. Nails must be clean, well-groomed, and of a length appropriate to the work situation.
3. Artificial nails and nail jewelry is prohibited based upon health and safety guidelines related to patient contact (infection control).
4. No chipped nail polishes permitted.

#### **Hair**

1. Hair must be clean, combed, neatly trimmed, or arranged.

2. Hair must be pulled back in a manner that does not hang/dangle/fall on a patient while performing an exam.
3. Colored hair must appear professional and in good taste.
4. When required, students shall adhere to departmental guidelines regarding hair covering. Sideburns, mustaches, and beards must be neatly trimmed. Students whose work requires protective or other equipment on the face may be required to remove facial hair, depending upon the type of work and equipment.
5. Fake eyelashes must be kept in good taste and not be of a singular lash application type.

#### **Accessories**

1. Jewelry may be worn in moderation.
2. One set of small stud earrings worn in earlobes only, a wristwatch, and one ring on either hand. All other jewelry is considered excessive for the clinical setting and therefore prohibited (i.e. large dangling/hoop earrings, any ear jewelry besides small studs).
3. Jewelry on other parts of the face is prohibited.

#### **Cosmetics**

1. Cosmetics must be used in good taste and moderation.
2. Heavy makeup and eye shadow is not acceptable.

#### **Fragrances**

1. Strong smelling colognes and perfumes are prohibited.
2. Colognes, perfumes, and any other scents should be used sparingly, if at all. Please note that colognes, perfumes, and other scents may be especially offensive to very sick patients.
3. **An effective antiperspirant/deodorant is a MUST.**

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### **SCOPE**

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The entire student body of the Diagnostic Imaging Program Radiography Emphases.

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### **PROCEDURE**

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#### **Appropriate Clinical Attire**

- 1.0** First year students must wear the appropriate program uniform which is burgandy colored scrubs with The University of Texas MD Anderson SHP Logo.
- 2.0** First and second year students may wear a black or appropriate program color coordinated uniform scrub jacket with the MD Anderson SHP Logo.
- 3.0** Second year students must wear the appropriate program uniform which is burgundy colored scrubs with the MD Anderson SHP Logo.
- 4.0** Clean, comfortable, and closed-toe shoes that are all white or all black are required. Shoelaces should match accordingly.



- 5.0** Students in areas where ionizing radiation is used must wear assigned radiation monitors. By law any student attending clinical education without their radiation-monitoring device will be immediately sent to retrieve it. Time missed from clinical education must be recorded as a PTO and made up.
- 6.0** Radiography students must carry at least one set of personalized lead markers at all times during clinical.
- 7.0** Students are to abide by the policy statement above pertaining to professional appearance and dress. Students in violation of the dress and personal appearance policy will receive demerits, which may impact their clinical grade
- 8.0** Students must carry their clinical binder and notepad at all times during clinical.

## **EMERGENCY MEDICAL CARE**

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### **PURPOSE**

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In the case of a medical emergency, students may go to The University of Texas MD Anderson Cancer Center emergency center or the emergency center of the clinical affiliate for care. The student is responsible for any expenses incurred.

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### **POLICY STATEMENT**

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MD Anderson and its affiliates will provide emergency medical care for enrolled students during program hours at the student's expense. Students are required to carry their own health insurance coverage to defray the cost of any medical service rendered. The University of Texas System offers medical insurance policies to eligible students. **The program/institution and/or its affiliates are not responsible for any costs incurred by the student.**

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### **SCOPE**

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The entire student body of the Diagnostic Imaging Program Radiography Emphases.

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### **PROCEDURE**

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- 1.0** In the event of an emergency, students may take themselves to the emergency center to be cared for. The Student badge must be presented upon check in.
- 2.0** Students are encouraged, when prudent, to use the UT Health Services, 7000 Fannin St. Ste. 1620, Houston, TX 77030. 713-500-3267.
- 3.0** The student's health insurance card must be presented upon check in. The student is responsible for any expenses incurred during his or her care.

## **PATIENT RELATED INCIDENTS**

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### **PURPOSE**

For the protection of our patients and our staff, any unprofessional performance is not tolerated in the clinic.

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### **POLICY STATEMENT**

Any incident, that would warrant an incident report for staff would be, considered an incident for students with the following inclusion. Failing to report an incident warranting a report constitutes a major infraction.

1. Remarks deemed unprofessional by Clinical Instructors/Preceptors.
2. Any complaint lodged by a patient concerning a student's conduct in the presence of patients.

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### **SCOPE**

The entire student body of the Diagnostic Imaging Program Radiography Emphases.

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### **PROCEDURE**

- 1.0** Students will stay in the assigned area until the clinical instructor completes an incident report. The Clinical Staff and Program Faculty will be made aware of the incident.
- 2.0** The student will give an oral report to the Clinical Supervisor and Program Clinical Faculty, and if necessary, to the Attending Physician as well.
- 3.0** The Program Director will decide, based on the incident report and the student's oral report, whether or not there was an infraction of rules and if any disciplinary action is to be taken.
- 4.0** If a patient-related incident occurs as a result of an infraction of program rules, the student will be placed on probation.
  - 4.1** Another patient-related incident during the student's tenure in the program will be grounds for dismissal.
  - 4.2** Serious incidents may warrant immediate dismissal as determined by the Program Director and Dean.

## **STUDENT EMPLOYMENT WHILE ATTENDING CLINICAL EDUCATION**

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### **PURPOSE**

We recognize the need for students to work while attending school. Due to the nature of the limited working business hours of the clinical sites, the faculty and staff will not make accommodations.

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### **POLICY STATEMENT**

If you are employed or gain employment during your academic preparation you **must** maintain separate schedules of hours for work and clinical education. Your employment must be arranged outside of the clinical schedule. **Employment MUST not interfere with regular academic and clinical responsibilities.** Outside activities and employment will not be considered valid excuses for poor clinical performance or lack of attendance within the program. The employment must be non-compulsory, paid, and subject to all employee regulations

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### **SCOPE**

The entire student body of the Diagnostic Imaging Program Radiography Emphases.

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### **PROCEDURE**

- 1.0 Students have the opportunity to gain employment at The University of Texas MD Anderson Cancer Center and its affiliates while enrolled in school, however, they must maintain separate schedules from work and clinical assignments. It is the student's responsibility to maintain and balance their schedules.
- 2.0 **Any exam that is performed while working as a paid employee at MD Anderson or one of its affiliates will not be considered for clinical competency.**

## **DEMONSTRATING CLINICAL COMPETENCY**

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### **PURPOSE**

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To ensure students are ready to enter the workplace as entry-level Radiological Technologists, they must prove competence in the clinical setting.

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### **POLICY STATEMENT**

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The Program Faculty and Clinical Staff will evaluate the student's clinical competencies and assignments. Group or committee review may be used when deemed appropriate by the Clinical Faculty, Associate Program Director, or Program Director.

Specific requirements for each rotation will vary according to the department in which the student is assigned. Students will be assigned to work with an ARRT Certified Registered Technologist or other professional depending on the area rotation.

During clinical education, the student is expected to participate in all aspects of patient care (i.e., clean and stock room and all duties as assigned). The included Clinical Competencies (see appendices) have been established to assist the student in obtaining competency in Clinical Practice.

The student is expected to continue strengthening his or her skills and technical understanding of the imaging equipment, further developing manual skills in patient contact, positioning and machine manipulation, teamwork, and attention to clinical data. The student will also be expected to continue to learn professional skills and performance.

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### **SCOPE**

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The entire student body of the Diagnostic Imaging Program Radiography Emphasis.

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### **PROCEDURE**

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**1.0** Students will be active in clinical education and obtain a variety of experiences.

- 1.1 The student will prove competency through clinical evaluations of their skills as well as documented clinical competencies on specific imaging procedures as outlined by the ARRT and the program's requirements.
- 1.2 The following process has been established to assure the successful completion of the required clinical competencies.
  - A. Observe and assist in the care of patients and the performance of diagnostic imaging procedures.
  - B. Document all attempts at demonstrating clinical competency.
  - C. Complete clinical competencies.

- D. Notify the Associate Program Director and/or Clinical Faculty through MD Anderson's email of exam completion immediately.
  - E. Review the competency by evaluating images with the Clinical or Education Coordinator. This process should be completed within two (2) weeks of performing the exam.
  - F. Ensure all required signatures are on the competency forms and ARRT master log. The program will not grant competency if the required signatures are not present.
- 1.3 **Always remember that the patient's safety and comfort is your primary goal as well as obtaining the highest possible standards in Diagnostic Imaging.**
- A. **Do not attempt any imaging procedures you do not feel comfortable performing.**
  - B. **You must always work under the direct or indirect supervision of an ARRT Registered Technologist.**

## **2.0 Continued Competency**

- 2.1 All students are required to first demonstrate competency in performing a procedure and then demonstrate continued competency on the procedure.
- 2.2 To demonstrate continued competency, starting Semester 2, the student may be challenged on any competency previously completed.
- 2.3 If you are unable to satisfactorily complete and pass the competency, it will be **REVOKED**.
- 2.4 When a competency is revoked, the student must prove competency on the procedure again with direct supervision.
- 2.5 **Any student who has more than one competency REVOKED in any one semester will be placed on clinical probation.**

## **3.0 Final Competencies**

- 3.1 All radiography students must complete Programmatic Final Competency requirements to be eligible to complete the radiography curricula and take the ARRT certification exam. The student will be provided the required Final Programmatic Competency Log at the completion of the ARRT Master Competency requirement.

## **ELECTRONIC DEVICES**

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### **PURPOSE**

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For the safety and consideration of all patients and other students, pagers, mobile phones, smart watches, laptop computers, and other electronic devices are not permitted in the clinical setting.

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### **POLICY STATEMENT**

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All electronic devices including mobile phones are **PROHIBITED** in the clinical setting. Mobile phone usage is considered hazardous in many areas of the clinical/hospital setting. Additionally, the use of mobile phones and accessories may violate HIPAA regulations.

Students may keep mobile phones in backpacks or lockers. The phones may be used **ONLY** during breaks.

Students who need to be available by phone for their children or family members may provide the telephone number of the program office, during normal business hours at 713-792-3455, option 3. The Administrative Assistant will take a message and notify the program faculty. The program faculty will contact the student in the clinical area/site. Family may contact the Clinical Faculty on evening and weekend rotations for emergency situations.

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### **SCOPE**

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The entire student body of the Diagnostic Imaging Program Radiography Emphasis.

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### **PROCEDURE**

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Students who carry a mobile phone or other electronic devices on their person in the clinical setting will be in violation of this policy and will be subject to demerits.

## **INTERNET USAGE**

### **PURPOSE**

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The purpose of this policy is to provide rules and guidelines regarding the appropriate use of the institution's equipment, network, and Internet access.

### **POLICY STATEMENT**

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Student use of school and clinical sites computers, networks, and Internet services is a privilege, not a right. Students are not to use computers at clinical sites for personal use. This includes "surfing" the Internet for non-clinical information, checking personal emails, or instant messaging. Students shall only use the Internet and computers of the clinical sites for clinic or school related activities. The use of the clinical sites computers and Internet services must be preapproved by the clinical supervisor.

### **SCOPE**

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The entire student body of the Diagnostic Imaging Program Radiography Emphasis.

### **PROCEDURE**

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Students who violate the policy and/or rules by misusing the clinical sites computers or Internet, including checking email, or using them for non-business or non-school related purposes may have their computer privileges revoked and may also be subject to further disciplinary action.



## **CLINICAL MERITS**

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### **PURPOSE**

To provide numerical documentation of clinical performance that exceeds the stated expectations and requirements.

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### **POLICY STATEMENT**

Merits will be issued for:

<b>ACCOMPLISHMENT</b>	<b>NO. OF MERITS</b>
Written thanks or praise from patients	1
Any written comments from clinical staff regarding performance	1
Participation in program activities e.g. information sessions, student interviews	1

**One merit equals one hour of compensating time off from clinical assignments. Merits can only be used during the final week of the clinical semester and all course requirements must be met prior to approval.**

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### **SCOPE**

The entire student body of the Diagnostic Imaging Program Radiography Emphasis.

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### **PROCEDURE**

- 1.0** Merits are assigned by Program Faculty and are used in exchange for compensating time off from clinical assignments.
- 2.0** One merit equals one hour of compensating time.
- 3.0** Merits **cannot** be carried from one semester to the next.
- 4.0** Merits **DO NOT** offset demerits or makeup time.
- 5.0** Any student placed on probation/disciplinary action forfeits merits earned.
- 6.0** Students found to be soliciting for merits will result in the removal of merit and possible addition of demerits.

## CLINICAL DEMERITS

### PURPOSE

To provide numerical documentation of unsatisfactory clinical performance in which will affect the student's clinical grade.

### POLICY STATEMENT

Demerit(s) will be issued for:

INFRACTIONS	NO. OF DEMERITS
Not following the notification procedure when tardy to or absent from clinic	2
Not submitting the required number of clinical evaluations	1
Clocking in or out on unapproved electronic devices (i.e. mobile phones, tablet, laptop, etc.)	5
Leaving clinic or assigned clinical area without permission (LWP)	5
Violation of dress code.	2
Violation of electronic devices policy	5
Violation of Internet usage policy	5
All late arrivals or early departures after two (2) excused	2
Not following professional standards of ethics	2
Being unprepared for clinical assignments (dosimeter, markers, etc.)	2
Mislabeling images	2
Failure to finish a procedure after starting it	2
Inconsistent performance in the clinical setting	2
All missed punches after two (2) excused (e.g., lunch breaks)	2
Passing any image without Clinical Instructor's/Preceptor's approval	3
Not entering the appropriate data in the computer system	2
Failure to attend or participate in scheduled tours and/or meetings	5
Sleeping or the appearance of being asleep in the clinic	5
Not following professional code of conduct	5

*NOTE: This is only a partial list; the above list and other infractions may result in the issuance of demerits at the discretion of program faculty.*

One demerit equals one-point deduction from the final clinical grade. Students are expected to maintain a consistent professional attitude and performance.

### SCOPE

The entire student body of the Diagnostic Imaging Program Radiography Emphasis.

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## **PROCEDURE**

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- 1.0** Demerits are assigned by Program Faculty.
- 2.0** The number of demerits given will depend upon the severity and frequency of the infraction.
- 3.0** One demerit equals one point deducted from the final clinical grade.

## **CLINICAL PROBATION**

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### **PURPOSE**

To notify students who demonstrate a consistent lack of performance in the clinical requirements of the program and/or are performing below average (grade "C") that they are failing to progress clinically. Continued performance without progress will result in clinical suspension and/or dismissal from the program.

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### **POLICY STATEMENT**

When a student demonstrates a consistent lack of performance in the clinical requirements of the program and is performing below average (grade "C") the student is placed on clinical probation. A student can also be placed on clinical probation for severe infraction of program policy or the continuation of an unprofessional attitude or performance that has required previous counseling by the Program Faculty.

If a student is placed on clinical probation, he or she will have a time frame designated for him or her to demonstrate that their weakness in clinical performance can be overcome. At the time of assigning the probationary status, the student will be advised of the problem and be offered suggestions and methods to improve his or her clinical performance. If the student does not demonstrate improvement he or she will be suspended from clinic.

If a student's performance is found to be lacking and or a severe infraction of any program policy occurs at the end of a semester or during the final weeks of that semester the clinical probation may be assessed on the next semester.

Probation will result in a one-letter grade drop in final clinical grade applicable in the current semester. It can also result in the student being removed from the program for failure to meet or abide by the published program policies and requirements. The student will be allowed due process.

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### **SCOPE**

The entire student body of the Diagnostic Imaging Program Radiography Emphasis.

---

### **PROCEDURE**

- 1.0** Students who fail to progress clinically and are earning a below average (grade "C") will be placed on clinical probation.
- 2.0** The student will formulate a plan of action based on the suggestions and methods for improvement provided in the counseling from the Program Faculty.
- 3.0** Students who fail to meet the stated goals in their plan of action will be suspended.
- 4.0** A student can also be placed on clinical probation for severe infraction of program policy, or the continuation of an unprofessional attitude or performance that has required previous counseling by the Program Faculty.

## **CLINICAL SUSPENSION**

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### **PURPOSE**

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To protect patients, staff, faculty, and fellow students a student can be placed on clinical suspension for a severe infraction of program policy, or the continuation of an unprofessional attitude or performance that has required previous counseling by the Program Faculty.

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### **POLICY STATEMENT**

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The program may take such immediate disciplinary action as is appropriate under the circumstances when it reasonably appears to the program from the circumstances that the continuing presence of the student poses a potential danger to persons or property or a potential threat for disrupting any activity in the clinic.

When placed on clinical suspension, the student will be advised and counseled on his or her clinical performance. In the event, the student does not demonstrate improvement he or she may be dismissed from the program.

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### **SCOPE**

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The entire student body of the Diagnostic Imaging Program Radiography Emphasis.

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### **PROCEDURE**

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- 1.0** Any student may be summoned by request of the Program Director for a meeting for purposes of the investigation and/or to discuss the allegations. The request shall specify the meeting location, date and time.
- 2.0** Clinical suspension will result in a one-letter grade drop in the clinical grade.
  - 2.1** It may also result in dismissal from the program for failure to meet or abide by the program policies and clinical requirements.
  - 2.2** The student will be allowed due process.

## **ENERGIZED RADIOGRAPHIC LAB**

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### **PURPOSE**

The purpose of this policy is to assure compliance with JRCERT standard 5.2 and state requirements to provide a safe environment for DI students prior to utilization of the energized Radiographic Lab.

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### **POLICY STATEMENT**

An overview of Radiation Safety is provided in DI 2210, RT 4101 and DI 2331. All students have instructions in radiation safety prior to using the lab.

**JRCERT standards 5.2 Assures that students employ proper radiation safety practices.**

The program must also assure radiation safety in energized laboratories. Student utilization of energized laboratories must be under the supervision of a qualified radiographer who is readily available. If a qualified radiographer is not readily available to provide supervision, the radiation exposure mechanism must be disabled.

The DI energized lab is located in B3.4583. The unit meets all state and federal regulations. The unit is utilized to obtain objectives in courses as stated in the curricula.

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### **SCOPE**

The entire student body of the Diagnostic Imaging Program Radiography Emphasis.

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### **PROCEDURE**

- 1.0** Students are allowed to utilize the lab to practice and prepare for simulation and clinical competencies and synthesize actual practice with didactic material. All students must abide by the lab policy.
  - 1.1 Laboratory use is restricted to educational assignments and only those students enrolled in the School of Health Professions Diagnostic Imaging Program.
  - 1.2 **UNDER NO CIRCUMSTANCES shall students be allowed to operate ionizing equipment without the guidance of a faculty member. A faculty member must be immediately available before exposures are made.**
  - 1.3 General safety rules (use of electrical equipment, hazardous materials precautions, etc.) must be followed when utilizing the laboratory.
  - 1.4 The door entering the laboratory must be closed during radiographic exposure.
  - 1.5 All persons must be physically located in the control area before and during radiographic exposure.
  - 1.6 All students **must wear** radiation-monitoring devices during all labs requiring exposure.

- 1.7 **Only phantoms or non-living objects may be used as subjects when actually performing an experiment or practice examination. Exposure to fellow students or non-living subjects in the lab or for lab experiments will result in immediate dismissal from the program.**
- 1.8 Phantoms can be checked out for practice during downtime in the clinic environment. The students must check out the equipment from the course instructor and return them the same day.
- 1.9 The laboratory must be kept neat and clean. Students are responsible for maintaining the laboratory when performing experiments or practice procedures.
- A. IR returned to the appropriate storage device.
  - B. Safelights and overhead lights shall be turned off after all lab sessions.
  - C. The radiographic tube will be powered off and placed on top of the pillow
  - D. After use, the table and upright Bucky will be cleaned with an antiseptic solution.
- 1.10 Any equipment failure must be immediately reported to a faculty member.
- 2.0** Failure to follow this policy may result in the dismissal of the student from the program.
- 3.0** The Energized Radiographic Lab must be only operated under the direct supervision of a faculty member. Only phantoms or non-living objects may be used as subjects when performing an experiment or practicing examinations. Exposure to fellow students or non-living subjects in the lab or for lab experiments will result in immediate dismissal from the program.

## **CLINICAL SAFETY**

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### **PURPOSE**

To ensure patient safety by minimizing radiation exposure to patients, selves, and other selves, and other students are instructed in the utilization of imaging equipment, accessories, optimal exposure factors, and proper patient positioning to minimize radiation exposure to patients, selves, and others.

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### **POLICY STATEMENT**

Per JRCERT Standard 5.3, The program assures that students employ proper safety practices. Students must understand basic safety practices prior to assignment to clinical settings.

- Students must not hold image receptors during any radiographic procedure.
- Students should not hold patients during any radiographic procedure when an immobilization method is the appropriate standard of care.

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### **SCOPE**

The entire student body of the Diagnostic Imaging Program Radiography Emphases.

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### **PROCEDURE**

- 1.0 As students' progress in the program, they must become increasingly proficient in the application of radiation safety practices. Under no circumstance are students to **hold the IR** during any radiographic procedures regardless of the level of competency.
- 2.0 As students' progress in the program, they must become increasingly proficient in the application of radiation safety practices. Under no circumstance are students to **hold patients** during radiographic procedures regardless of the level of competency.
- 3.0 Failure to comply with the policy is a violation of supervision requirements. The first offense will result in a written reprimand, the second offense placed on clinical probation, and additional incidents will result in dismissal from the program of study.



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## **Appendix A**

# **Letter of Understanding**

The following agreement is intended to acquaint the Diagnostic Imaging Program student with the requirements and guidelines bearing on his/her program at The University of Texas MD Anderson Cancer Center, School of Health Professions (SHP).

I understand that during my education at UT MD Anderson, patient safety is the first priority of all students, faculty, and staff. Signing this document is verification that I have read and understand the Program Policies to include but not limited to:

1. During my clinical education, I understand I must be directly or indirectly supervised 100% of the time during clinical assignments. All repeat examination requires direct supervision.
2. Three year track students: The program is nine semesters in length and continues throughout the summer semesters.
3. I have reviewed and understand the governing regulations of the SHP printed in the SHP Catalog and the SHP Student Handbook.
4. I have reviewed and understand the governing regulations of the Diagnostic Imaging Program as printed in the Diagnostic Imaging Program Policies Manual.
5. I understand that I am responsible to adhere to all applicable provisions concerning conduct, general departmental and grooming standards promulgated by the Program and its clinical affiliate facilities.
6. I acknowledge that as part of my professional education, attendance is required and missing clinical experiences and didactic classes will affect my grade and can be grounds for dismissal from the program.
7. I acknowledge that as part of my professional education, I am required to demonstrate continued competency in the academic and clinical setting. Failure to maintain competency may result in dismissal from the program. If I have or am diagnosed with a physical, mental or learning disability prior to starting or during the program, it is my responsibility to notify the Program Director in writing so that reasonable accommodations can be made.
8. I will purchase the required uniform including lab coats, scrubs and any protective materials the clinical education center requires. The upkeep of these items is my responsibility.
9. I will purchase the required textbooks and course materials.
10. I will attend clinical education as scheduled and I will strictly adhere to the clinical rotation and time schedule. I understand assignments are made to clinical affiliates to gain additional experience. Clinical assignments may include but are not limited to rotations to all JRCERT approved clinical sites.

11. I understand clinical assignments are 2-3 days per week and students are scheduled for days, evening, nights and weekends rotations. Refer to clinical syllabus for rotation schedules.
12. I understand rotations will require travel up to 60 miles from the Houston, Texas Medical Center. All costs associated with the rotations are the student's responsibility.
13. I understand during clinical rotation a 30-minute meal break is mandatory.
14. I understand that any major breach of policy will be grounds for immediate dismissal from the program. A major breach of policy includes, but is not limited to: Injuring a patient, performing clinical activities without appropriate supervision, not reporting patient related incidents, unprofessional conduct that causes a patient to question the integrity of their care, unprofessional conduct related to patients, faculty and staff, falsification or destruction of any student or patient related (academic or clinical) records, mislabeling images with approved lead letter markers.
15. Students can grieve any disciplinary actions.
16. I must document my clinical experience using the program-approved method. Additionally, I understand that documenting my clinical attendance with any unauthorized electronic means is not permitted.
17. I will clock in and out of clinical education assignment only on computers identified at my clinical education center deemed acceptable by the program. Documenting clinical attendance for another student and/or purposely documenting clinical attendance inaccurately is considered falsifying academic/clinical records and may result in immediate dismissal from the program.
18. I understand that due to the compromised immunity of patients, if I become ill, including having a temperature of greater than 99.0 degrees Fahrenheit, nausea, vomiting and/diarrhea or a known contagious illness, I will not attend clinical or didactic education. Do not report to clinic if you are unsure about the nature of your illness, contact program officials immediately to discuss attendance. My absences from clinical education must be made up during the semester break following the absence. Make- up time must be approved by clinical faculty. All clinical education must be completed in a minimum of a four-hour block of time.
19. I understand I am expected to fully participate in all didactic and professional growth opportunities offered at the MD Anderson School of Health Professions, regardless of grading criteria.
20. I understand that I must wear my assigned radiation monitor badge at all times during clinical education
21. I acknowledge I must earn a 75% or higher grade in each course in order to progress to the following semester.
22. I understand I will not be released from the program until I achieve 80% or higher on the Capstone comprehensive exam. I will not be released to sit for the ARRT examination in Radiography.
23. I understand I will not be released to sit for the ARRT examination in Radiography until all programs didactic and clinical requirements are completed.
24. I understand health care coverage is required, and it is my responsibility to maintain it. I understand that medical insurance may be purchased through The University of Texas Health Sciences Center.

25. I will abide by the guidelines of HIPAA and maintain patient confidentiality. I understand that sources of patient information that contain more than one way of patient identification should not leave hospital. (ie. patient requisitions or patient identification stickers).

26. I understand that I must maintain my American Heart Association Health Care Provider CPR credentials.

27. I understand that I am required to complete all satellite clinical requirements before rotation. This may include ID badges, Health and Safety paperwork and immunization.

28. I understand that each satellite facility has their own requirements and may require immunization annually. Flu shots and TB tests are mandatory.

I understand any substantial breach of regulations, any serious departure from professional bearing or any prominent deficit in my academic achievement, motivation or attitude may constitute grounds for my expulsion from the program.

Signed \_\_\_\_\_ Date \_\_\_\_\_

Print Name \_\_\_\_\_

Witness \_\_\_\_\_ Date \_\_\_\_\_

---

## **Appendix B**

### **Acknowledgement of Pregnancy Policy**

The program does not discriminate based on pregnancy status. However, since exposure to ionizing radiation or magnetic and radiofrequency fields may pose a risk to the developing fetus, there are three options available to the student per the pregnancy policy.

1. Students providing written notice of voluntary declaration.
2. Program official and student discussion for option for continuance in the program with, without modification or leave of absence.
3. Student option for written withdrawal of declaration of pregnancy.

The policy states the student submit in writing, a declaration of pregnancy with the expected due date, to the Program Director and the Radiation Safety Officer (if applicable.)

The student will be issued a fetal badge to monitor exposure to the fetus during pregnancy when the pregnancy is declared in writing.

The Program director or designee and when applicable the Radiation Safety Officer will provide counsel concerning the rules, regulations and rights of the student as an occupationally exposed health care worker, inform her health care provider of the nature of student clinical experiences and of the potential risk that may exist for exposure to ionizing radiation (if applicable.)

Review her clinical rotation schedule with the Program Director, the Educational Coordinator, the Clinical Coordinator/Faculty, and the Radiation Safety Officer (if applicable.) The student retains the right to continue in her preset schedule, just as she retains the right to not declare herself pregnant.

If the student chooses to revise her clinical rotation schedule and this revision causes her to miss a required clinical rotation, this clinical rotation must be completed prior to graduation.

I have read this policy and understand my rights to declare pregnancy status.

Signed \_\_\_\_\_ Date \_\_\_\_\_

Print Name \_\_\_\_\_

Witness \_\_\_\_\_ Date \_\_\_\_\_

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## **Appendix C**

# **Voluntary Declaration of Pregnancy Radiography Emphases**

I am pregnant and I wish to declare and discuss my options to continue my clinical and didactic education as specified in policy 3.08. I understand I have the following options

- an option for student continuance in the program without modification
- an option for student continuance in the program with modification
- option to take a leave of absence and seek reinstatement with a written declaration of withdrawal of pregnancy.

I understand if I choose to continue without modification, it will be in the same capacity and with the same clinical rotation assignments. Exception will only be granted if an appraisal of the radiation exposure, based on all available data including monitoring records, leads to the reasonable conclusion that such exposure may result in a fetal dose during my pregnancy and exceeds 0.5 rem (5 mSv). I will meticulously follow established radiation protection techniques to minimize the radiation exposure to the fetus. I do not expect to receive an exemption from any regular assignments during my pregnancy.

Signed \_\_\_\_\_ Date \_\_\_\_\_

Print Name \_\_\_\_\_

### **Endorsement 1**

I recommend the clinical education status of \_\_\_\_\_ be continued under the terms set forth above concerning the exposure of pregnant students to ionizing radiation. I believe this individual's continued education will not result in a fetal exposure exceeding 0.5 rem and shall supervise work assignments and pay particular attention to monitoring records in order to minimize the possibility this dose will be exceeded.

Signed \_\_\_\_\_ Date \_\_\_\_\_  
Clinical Coordinator/Preceptor

Print Name \_\_\_\_\_

**School of Health Professions  
Diagnostic Imaging Program**

**Endorsement 2**

I have reviewed this application and recommend (approval) (disapproval) of this student's application of continued clinical and didactic education during pregnancy.

Conditions:

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Signed \_\_\_\_\_ Date \_\_\_\_\_  
Hospital Radiation Safety Officer

Print Name \_\_\_\_\_

Signed \_\_\_\_\_ Date \_\_\_\_\_  
Program Faculty

Print Name \_\_\_\_\_

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## **Appendix D**

### **Procedure for Completion**

Upon satisfactory completion of the program's required competencies, a student will submit the following checklist for program completion.

- ☐ 1. Complete all required courses in the MD Anderson Diagnostic Imaging Program's Radiography, CT/IR or MRI emphasis. Grades must be verified before completion is granted.
- ☐ 2. Complete Final Competency Evaluation (Radiography) with 18 hours per week clinical experience until complete.
- ☐ 3. Complete and submit the "Diagnostic Imaging Completion Request" form by obtaining the required signatures and submitting with this form to the Program Director. The Completion Request form must have attached to it the following:
  - A. Master Clinical Competency Form/Checklist
  - B. Final Competency Forms
  - C. Current Radiation Exposure Report (does not apply to MRI emphasis)
- ☐ 4. Clinical hours will be verified by the Clinical Coordinator/Faculty or Education Coordinator and a final copy of total hours will be kept in your permanent file.

After satisfactorily completing the above steps, you have successfully completed The University Texas, MD Anderson Cancer Center School of Health Professions Diagnostic Imaging Program Requirements. CONGRATULATIONS!

## Appendix E

### Completion Request

Upon satisfactory completion of the program's required competencies, a student will submit the following checklist for program completion.

DATE \_\_\_\_\_

TO The University of Texas MD Anderson Cancer Center School of Health Professions Diagnostic Imaging Program, Program Director

FROM \_\_\_\_\_  
Student's Name Student's Signature

SUBJECT **Request to be released from the following curriculum:**

- ☐ Computed Tomography (CT) ☐ Education/Management Curriculum (circle one)
- ☐ Interventional (IR) ☐ Magnetic Resonance Imaging (MRI) ☐ Radiography

This is my formal request to complete and be released from the MD Anderson School of Health Professions, Diagnostic Imaging Program's Radiography, CT, CT/IR, or MRI Emphasis.

I will have completed all course requirements to the level of competence in both didactic and clinical education in my chosen professional emphasis.

**I certify the clinical education competency of this student and recommend the student's request be honored.**

Signed \_\_\_\_\_ Date \_\_\_\_\_  
Clinical Coordinator/Faculty or Education Coordinator

Print Name \_\_\_\_\_

**I certify the didactic education of this student and recommend the student's request be honored.**

Signed \_\_\_\_\_ Date \_\_\_\_\_  
Education Coordinator

Print Name \_\_\_\_\_

### REQUEST GRANTED

Signed \_\_\_\_\_ Date \_\_\_\_\_  
Diagnostic Imaging Program Director

Print Name \_\_\_\_\_

The ARRT Clinical Competency Requirements must be attached to this form as well as all other required documentation listed in the policy entitled "Procedure for Completion" when submitting the request for release. This is the student's responsibility. Students will not be released from the program without the required documentation.



## Appendix F

My signature and initials below is an acknowledgment that I have read and understand the policies of the Diagnostic Imaging Program contained within the 2019-2020 Diagnostic Imaging Student Handbook and Clinical Policies Manual.

Signed \_\_\_\_\_ Date \_\_\_\_\_  
Student

Print Name \_\_\_\_\_

Initials	Policy	Initials	Clinical Policy
_____	Statement of Policy Change	_____	Clinical Education Center Rules &
_____	Professional Liability	_____	Regulations
_____	Reporting Illness	_____	Clinical Supervision
_____	Program Communication	_____	Clinical Attendance
_____	Professional Conduct	_____	Clinical Rotation Assignments
_____	Blogging and Social Networking	_____	Clinical Competency Grading and
_____	Statement of Criminal Conduct	_____	Remediation
_____	Representation on the SHP	_____	Radiography Simulations
_____	Student Congress	_____	Radiation Monitoring
_____	Lambda Nu/Honors Recognition	_____	MRI Safety
_____	Release for Registry Eligibility	_____	Pregnant Radiation Workers/Students
_____	Release of Student Information	_____	Clinical Dress and Personal Appearance
_____	Due Process	_____	Emergency Medical Care
_____	Dismissal	_____	Patient-Related Incidents
_____	Readmission	_____	Student Employment While Attending
_____	Credit Award Calculation	_____	Clinical Education
_____	Grading Standards	_____	Demonstrating Clinical Competency
_____	Technical Standards	_____	Electronic Devices
_____	Make-up Exams and Quizzes	_____	Internet Usage
_____	Testing	_____	Clinical Merits
_____	Course Syllabi	_____	Clinical Demerits
_____	Programmatic Standards of	_____	Clinical Probation
_____	Accreditation	_____	Clinical Suspension
_____	Certification Requirement	_____	Energized Radiographic Lab

## **Appendix G**

### **Radiation Monitoring Confirmation of Receipt and Understanding of Program Policy**

My signature and date below signify the acknowledgment and understanding of Diagnostic Imaging Program Radiography EMPHASIS Policy # DI 3.06 of Radiation Monitoring contained in the Diagnostic Imaging Student Handbook and Clinical Policies Manual.

I have read this policy and understand my rights to monitoring.

Signed \_\_\_\_\_ Date \_\_\_\_\_

Print Name \_\_\_\_\_

## Appendix H Reinstatement Plan

The Student is subject to all School of Health Professions (SHP) and DI Program attendance, grade, and dismissal policy.

Upon student reinstatement to the program, the student must complete all didactic and clinical requirements for graduation, to include:

1. Completion of all competencies and repetitions as indicated in the Syllabus and below.
2. Completion of all pertaining Competency Forms

I understand that I am subjected to the current DI clinical attendance, clinical grade calculation and dismissal policies. Failure to complete the above requirements will result in dismissal from the DI Program Radiography Emphases.

Student Name \_\_\_\_\_ Student ID \_\_\_\_\_

1. Completion of 36 Mandatory and 15 elective radiographic procedures as indicated by the American Registry of Radiologic Technologists and the Masterlog (Appendix H).
  - a. Competencies must be completed on patients in the clinical environment.
  - b. **No lab simulations** will be used to re-assess competency.
2. Attend Summer 20\_\_ clinical rotations as assigned to acquire mandatory competencies.
  - a. Successfully complete competency image critiques on all mandatory competencies with assigned clinical faculty. (See Image Critique form in Appendix I).
  - b. If all competencies are not completed the student will receive a grade of *Incomplete (I)* Summer 20\_\_ academic period and continue in the Fall 2020 academic period to complete the masterlog.
  - c. Student must pass all competencies and image critiques to continue in the program.
  - d. Student is subject to all School of Health Professions (SHP) and DI Program attendance, grade, and dismissal policy.
3. Once the mandatory competencies are completed the student may begin The Final Log Competencies. (See Appendix J).
  - a. Complete ARRT Final Competencies in Fall 20\_\_ academic period.
  - b. ARRT Final Competencies must be completed prior to taking the ARRT Certification Exam.
4. All Radiography requirements and ARRT certification must be completed prior to advancing to the senior advanced modalities.

Signed \_\_\_\_\_ Date \_\_\_\_\_  
Student

Approved \_\_\_\_\_ Date \_\_\_\_\_  
Clinical Faculty

Approved \_\_\_\_\_ Date \_\_\_\_\_  
Education Coordinator

Approved \_\_\_\_\_ Date \_\_\_\_\_  
Program Director

## Appendix I ARRT Master Log



RADIOGRAPHY  
DIDACTIC AND CLINICAL COMPETENCY REQUIREMENTS

ARRT BOARD APPROVED: JANUARY 2021  
EFFECTIVE: JANUARY 2022

### 4.2.2 Imaging Procedures (continued)

Imaging Procedures	Mandatory or Elective		Eligible for Simulation	Date Completed	Competence Verified By
	Mandatory	Elective			
<b>Chest and Thorax</b>					
Chest Routine	✓				
Chest AP (Wheelchair or Stretcher)	✓				
Ribs	✓		✓		
Chest Lateral Decubitus		✓	✓		
Sternum		✓	✓		
Upper Airway (Soft-Tissue Neck)		✓	✓		
Sternoclavicular Joints		✓	✓		
<b>Upper Extremity</b>					
Thumb or Finger	✓		✓		
Hand	✓				
Wrist	✓				
Forearm	✓				
Elbow	✓				
Humerus	✓		✓		
Shoulder	✓				
Clavicle	✓		✓		
Scapula		✓	✓		
AC Joints		✓	✓		
<b>Trauma:</b> Shoulder or Humerus (Scapular Y, Transthoracic or Axial)*	✓				
<b>Trauma:</b> Upper Extremity (Non-Shoulder)*	✓				
<b>Lower Extremity</b>					
Toes		✓	✓		
Foot	✓				
Ankle	✓				
Knee	✓				
Tibia-Fibula	✓		✓		
Femur	✓		✓		
Patella		✓	✓		
Calcaneus		✓	✓		
<b>Trauma:</b> Lower Extremity*	✓				

\* Trauma requires modifications in positioning due to injury with monitoring of the patient's condition.

**School of Health Professions**  
**Diagnostic Imaging Program**



RADIOGRAPHY  
 DIDACTIC AND CLINICAL COMPETENCY REQUIREMENTS

ARRT BOARD APPROVED: JANUARY 2021  
 EFFECTIVE: JANUARY 2022

**4.2.2 Imaging Procedures (continued)**

Imaging Procedures	Mandatory or Elective		Eligible for Simulation	Date Completed	Competence Verified By
	Mandatory	Elective			
<b>Head</b> — Candidates must select at least one elective procedure from this section.					
Skull		✓	✓		
Facial Bones		✓	✓		
Mandible		✓	✓		
Temporomandibular Joints		✓	✓		
Nasal Bones		✓	✓		
Orbits		✓	✓		
Paranasal Sinuses		✓	✓		
<b>Spine and Pelvis</b>					
Cervical Spine	✓				
Thoracic Spine	✓		✓		
Lumbar Spine	✓				
Cross-Table (Horizontal Beam)	✓		✓		
Lateral Spine (Patient Recumbent)					
Pelvis	✓				
Hip	✓				
Cross-Table (Horizontal Beam)	✓		✓		
Lateral Hip (Patient Recumbent)					
Sacrum and/or Coccyx		✓	✓		
Scoliosis Series		✓	✓		
Sacroiliac Joints		✓	✓		
<b>Abdomen</b>					
Abdomen Supine	✓				
Abdomen Upright	✓		✓		
Abdomen Decubitus		✓	✓		
Intravenous Urography		✓			

## School of Health Professions Diagnostic Imaging Program



RADIOGRAPHY  
DIDACTIC AND CLINICAL COMPETENCY REQUIREMENTS

ARRT BOARD APPROVED: JANUARY 2021  
EFFECTIVE: JANUARY 2022

### 4.2.2 Imaging Procedures (continued)

Imaging Procedures	Mandatory or Elective		Eligible for Simulation	Date Completed	Competence Verified By
	Mandatory	Elective			
<b>Fluoroscopy Studies</b> – Candidates must select two procedures from this section and perform per site protocol.					
Upper GI Series, Single or Double Contrast		✓			
Contrast Enema, Single or Double Contrast		✓			
Small Bowel Series		✓			
Esophagus (NOT Swallowing Dysfunction Study)		✓			
Cystography/Cystourethrography		✓			
ERCP		✓			
Myelography		✓			
Arthrography		✓			
Hysterosalpingography		✓			
<b>Mobile C-Arm Studies</b>					
C-Arm Procedure (Requiring Manipulation to Obtain More Than One Projection)	✓		✓		
Surgical C-Arm Procedure (Requiring Manipulation Around a Sterile Field)	✓		✓		
<b>Mobile Radiographic Studies</b>					
Chest	✓				
Abdomen	✓				
Upper or Lower Extremity	✓				
<b>Pediatric Patient</b> (Age 6 or Younger)					
Chest Routine	✓		✓		
Upper or Lower Extremity		✓	✓		
Abdomen		✓	✓		
Mobile Study		✓	✓		
<b>Geriatric Patient</b> (At Least 65 Years Old and Physically or Cognitively Impaired as a Result of Aging)					
Chest Routine	✓				
Upper or Lower Extremity	✓				
Hip or Spine		✓			
<b>Subtotal</b>					
Total Mandatory exams required	36				
Total Elective exams required		15			
Total number of simulations allowed			10		



RADIOGRAPHY  
 DIDACTIC AND CLINICAL COMPETENCY REQUIREMENTS

ARRT BOARD APPROVED: **JANUARY 2021**  
 EFFECTIVE: **JANUARY 2022**

#### 4.2.1 General Patient Care Procedures

Candidates must be CPR/BLS certified and have demonstrated competence in the remaining nine patient care procedures listed below. The procedures should be performed on patients whenever possible, but simulation is acceptable if state regulations or institutional practice prohibits candidates from performing the procedures on patients.

<b>General Patient Care Procedures</b>	<b>Date Completed</b>	<b>Competence Verified By</b>
CPR/BLS Certified		
Vital Signs – Blood Pressure		
Vital Signs – Temperature		
Vital Signs – Pulse		
Vital Signs – Respiration		
Vital Signs – Pulse Oximetry		
Sterile and Medical Aseptic Technique		
Venipuncture*		
Assisted Patient Transfer (e.g., Slider Board, Mechanical Lift, Gait Belt)		
Care of Patient Medical Equipment (e.g., Oxygen Tank, IV Tubing)		

\*Venipuncture can be simulated by demonstrating aseptic technique on another person, but then inserting the needle into an artificial forearm or suitable device.

## Appendix J

# Radiography Competency Image Critique

<b>Radiation Protection</b>	<input type="radio"/> Unacceptable Performance	<input type="radio"/> Below Expectations	<input checked="" type="radio"/> Meets expectations, Satisfactory Performance	<input type="radio"/> Exceeds expectations, Outstanding Performance	<input type="radio"/> N/A	<input type="text"/>
<b>Equipment Operation and Quality Control</b>	<input type="radio"/> Unacceptable Performance	<input type="radio"/> Below Expectations	<input checked="" type="radio"/> Meets expectations, Satisfactory Performance	<input type="radio"/> Exceeds expectations, Outstanding Performance	<input type="radio"/> N/A	<input type="text"/>
<b>Image Acquisition and Evaluation</b>	<input type="radio"/> Unacceptable Performance	<input type="radio"/> Below Expectations	<input checked="" type="radio"/> Meets expectations, Satisfactory Performance	<input type="radio"/> Exceeds expectations, Outstanding Performance	<input type="radio"/> N/A	<input type="text"/>
<b>Imaging Procedures</b>	<input type="radio"/> Unacceptable Performance	<input type="radio"/> Below Expectations	<input checked="" type="radio"/> Meets expectations, Satisfactory Performance	<input type="radio"/> Exceeds expectations, Outstanding Performance	<input type="radio"/> N/A	<input type="text"/>
<b>Patient Care and Education</b>	<input type="radio"/> Unacceptable Performance	<input type="radio"/> Below Expectations	<input checked="" type="radio"/> Meets expectations, Satisfactory Performance	<input type="radio"/> Exceeds expectations, Outstanding Performance	<input type="radio"/> N/A	<input type="text"/>
<b>Image critique performed within 2 weeks?</b>	<input type="radio"/> No <input type="radio"/> Yes					<input type="text"/>

☐ Check to complete later, then click "Submit"

☒ Approved    ☐ Not Approved  
☐ Simulated

Previous competency attempts for Abdomen Decubitus:



## APPENDIX K

### Final Competency Log

The University of Texas M.D. Anderson Cancer Center  
 School of Health Professions  
 Diagnostic Imaging Program: Radiography Emphasis

#### FINAL COMPETENCY LOG

The supervising technologist MUST print their name and initial each final competency to receive credit. Complete the number of Procedures for each competency category (11 final competencies total). *Practices and image critiques are NOT required for Final Competencies.*

Printed Student Name: \_\_\_\_\_ DATE Received: \_\_\_\_\_

Education Coordinator Signature: \_\_\_\_\_

#### Abdominal, Chest, and Thorax: 2 Procedure

Imaging Procedure	Date	MRN	Supervising CI	CI Initials	Clinical Affiliate
Chest Routine					
Chest AP/PA (W/Stretcher)					
Abdomen: KUB					
Abdomen: Upright					
Ribs					

#### Mobile: 1 Procedure

Imaging Procedure	Date	MRN	Supervising CI	CI Initials	Clinical Affiliate
Abdomen: Mobile					
Chest: Mobile					
Orthopedic: Mobile					

#### Upper Extremity: 3 Procedures

Imaging Procedure	Date	MRN	Supervising CI	CI Initials	Clinical Affiliate
Clavicle					
Elbow					
Forearm					
Hand					
Humerus					
Thumb or Finger					
Shoulder/Scapula					
wrist					

**School of Health Professions  
 Diagnostic Imaging Program**

Student Name \_\_\_\_\_

**Lower Extremity: 3 Procedures**

Imaging Procedure	Date	MRN	Supervising CI	CI Initials	Clinical Affiliate
Foot					
Ankle					
Knee					
Tibia-Fibula					
Femur					
Toe*					

**Spine and Pelvis: 2 Procedures**

Imaging Procedure	Date	MRN	Supervising CI	CI Initials	Clinical Affiliate
Cervical Spine					
Thoracic Spine					
Lumbar Spine					
Pelvis					
Hip					

Student Signature: \_\_\_\_\_ Completion Date: \_\_\_\_\_

Education Coordinator Signature: \_\_\_\_\_

**Education Coordinator Image Audit**

Procedure	Date	Education Coordinator

MAG REV: 1-31-23