Medical Dosimetry Program

Academic Policies
and
Clinical Education Handbook

2015 - 2016
Notice of Equal Opportunity

Thomas Jefferson University is committed to providing equal educational and employment opportunities for all persons without regard to race, color, national or ethnic origin, marital status, religion, sex, sexual orientation, gender identity, age, disability, veteran’s status or any other protected characteristic. The consideration of factors unrelated to a person’s ability, qualifications and performance is inconsistent with this policy. Any person having inquiries or complaints concerning Thomas Jefferson University’s compliance with Title VI, Title IX, the Age Discrimination Act of 1975, the Americans with Disabilities Act, or Section 504 of the Rehabilitation Act is directed to contact their Student Affairs Dean or Human Resources – Employee Relations, who have been designated by Thomas Jefferson University to coordinate the institution’s efforts to comply with the these laws. Any person may also contact the Assistant Secretary for Civil Rights, U.S. Department of Education, Washington, D.C. 20202, or the Director, U.S. Department of Education, Office for Civil Rights, Region Three, Philadelphia, Pennsylvania, regarding the University’s compliance with the equal opportunity laws.

Required Background Check

Students who are offered admission to Jefferson are required to pass a criminal background check and child abuse clearance. Some departments within the College, as well as some clinical sites may require students to be fingerprinted and/or drug tested. The Office of Admissions will provide you with the appropriate information to complete these requirements.

Clinical rotation and fieldwork sites that require a criminal background check, child abuse clearance and/or fingerprinting may deny a student’s participation in the clinical experience, rotation or fieldwork because of a felony or misdemeanor conviction or a record of child abuse. Clinical sites may also deny participation in clinical experiences for other reasons, including but not limited to failure of a required drug test, or inability to produce an appropriate health clearance. As participation in clinical experiences, rotations or fieldwork is a required part of the curriculum and a requirement for graduation, denial of participation by a clinical site may result in delay of graduation or the inability to graduate from the program.

Regardless of whether or not a student graduates from Jefferson, individuals who have been convicted of a felony or misdemeanor may be denied certification or licensure as a health professional. Information regarding individual eligibility may be obtained from the appropriate credentialing bodies.

Thomas Jefferson University reserves the right to amend any regulations, fees, conditions and courses described herein as circumstances may require without prior notice to persons who might thereby be affected. The provisions of this handbook are not and may not be regarded as contractual between the College and the students or its employees.

Revised and Adopted August 2015
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JEFFERSON COLLEGE OF HEALTH PROFESSIONS
MISSION STATEMENT
The Jefferson College of Health Professions is committed to educating health care professionals of the highest quality and ethical standards for contemporary practice in the global community. By promoting faculty excellence in teaching, research and service, we prepare caring professionals who are competent in the use of evidence based practice, critical in their thinking, committed to lifelong learning and prepared to be leaders in diverse health care settings. In keeping with the mission of the University and the future of health care delivery, the Jefferson College of Health Professions is committed to interdisciplinary education and technologies that draw upon the strengths of all disciplines.

MISSION OF THE DEPARTMENT OF RADIOLOGIC SCIENCES
The mission of the Department of Radiologic Sciences is to provide a comprehensive education preparing students for entry-level practice in radiologic and imaging sciences as competent, caring members of the health care team, cultivating professionalism and life-long learning.

DEPARTMENT GOALS
The didactic, laboratory and clinical components of the curricula within the Department of Radiologic Sciences (DRS), Jefferson College Health Professions (JCHP), Thomas Jefferson University (TJU), provide an environment for students to develop and master:
• Knowledge, insight and skills required to produce optimal diagnostic images or develop and deliver therapeutic treatment plans.
• Effective communication techniques required to interact successfully with both patients and other members of the health care team.
• Self-assessment skills required to evaluate correctly the quality and quantity of their work.
• Critical thinking and problem solving skills required to meet the challenges of the dynamic healthcare environment.
• Values for commitment to life-long learning, public education and involvement in their professional organizations.
MISSION OF THE MEDICAL DOSIMETRY PROGRAM

The Mission of the Medical Dosimetry Program and the Department of Radiologic Sciences is to provide a comprehensive education preparing students for entry-level practice into medical dosimetry, as competent, caring professionals, cultivating professionalism, interprofessional practice and life-long learning. Through innovative pedagogy, critical thinking and problem-solving theses skills are developed and enhanced.

Program Goals & Student Learning Outcomes

Goal # 1: Clinical Performance and Clinical Competence
Students will acquire the knowledge, insight and skills necessary to perform competently as entry-level dosimetrists

Student Learning Outcomes:
1A - Demonstrate the ability to develop precise 3D treatment plans
1B - Demonstrate the ability to develop precise IMRT plans
1C – Demonstrate the ability to develop deliverable SBRT Plans

Goal # 2: Problem Solving Skills and Critical Thinking
Students will apply critical thinking and problem-solving skills in making decisions about treatment planning/calculations for the care of the radiation oncology patients

Student Learning Outcomes:
2A – Students will adequately critique their treatment plans and modify to develop an optimal treatment plan
2B – Comparison of different modalities/techniques

Goal # 3: Communication Skills
Students will communicate effectively when interacting with patients and members of the radiation oncology team

Student Learning Outcomes:
3A – Students will demonstrate effective written communication skills
3B – Students will use effective oral communication skills

Goal # 4: Professional Development and Growth
Students will demonstrate professional growth and development

Student Learning Outcomes:
4A – The students will attend meetings with the Radiation Oncology Medical (staff and residents) Physicists
4B – The students will demonstrate ethical and professional behavior in a clinical Setting
4C – After graduation, the alumni will continue to exhibit ethical and professional manners
THE HANDBOOK

While we have attempted to provide you with a comprehensive departmental handbook, it does not stand alone. Important University-wide policies, including the Code of Conduct and Student Sexual Misconduct Policy, along with information on various University services, can be found on the Thomas Jefferson University Student Handbook website at www.jefferson.edu/handbook. Additionally, important information on the academic policies and procedures within the Jefferson College of Health Professions can be found on the JCHP home webpage. Please review all of these resources, as they will help guide you through a successful student experience at Thomas Jefferson University.

This Academic Policies and Clinical Education Handbook serves as a guide for students enrolled in the Department of Radiologic Sciences, Jefferson College of Health Professions, and Thomas Jefferson University.

A Thomas Jefferson University student is required to uphold a high standard of academic and nonacademic conduct. That standard is presented in this document and will be upheld by the Department of Radiologic Sciences. Academic and nonacademic misconduct at Thomas Jefferson University is subject to disciplinary action.

This handbook is given to matriculating students during orientation. The Department will obtain documentation of the receipt and review of the handbook.

Each student will be responsible for maintaining his/her knowledge of the information contained in the Academic Policies and Clinical Education Handbook, as well as the Jefferson College of Health Professions Catalog, and Jefferson College of Health Professions Student Handbook.

The Academic Policies and Clinical Education Handbook is also available online on the Medical Dosimetry Program website.

The Jefferson College of Health Profession Handbook is available online at www.jefferson.edu/handbook
NATIONAL CERTIFICATION EXAMINATION

Graduates of the Multicompetency and Advanced Placement Programs are eligible to take the associated certification examinations of the American Registry of Radiologic Technologists (ARRT), American Registry of Diagnostic Medical Sonographers (ARDMS), Cardiovascular Credentialing International (CCI), Medical Dosimetrist Certification Board (MDCB), and Nuclear Medicine Technology Certification Board (NMTCB), as applicable. Students who pass these examinations receive national certification.

ELIGIBILITY FOR MDCB EXAMINATION

As per the Medical Dosimetrist Certification Board (MDCB) – Route 1

(See Exam Information on the MDCB website at www.mdcb.org) for eligibility requirements.

PROGRAM ACCREDITATION

The educational programs of the Department are approved by the University administration. All programs are programmatically accredited by their respective accreditation body (e.g., JRCERT, JRCNMT, and JRCDMS). The Computed Tomography and Invasive Cardiovascular Technology programs are covered under the University’s accreditation by Middle States Commission on Accreditation.

PROGRAM COMPLIANCE

If a student feels the program is not in compliance with the accreditation standards, a complaint must be submitted in writing to the Program Director with documentation for the complaint. The Department Chair, Program Director, and Clinical Coordinator will review the complaint and documentation and respond to the student within three (3) business days of receiving the complaint. If the student is not satisfied with the response, he/she has the right to contact the accreditation body.

JRCERT
20 N. Wacker Drive
Suite 2850
Chicago, IL 60606-3182
Phone: (312) 704-5300
Fax: (312) 704-5304
http://www.jrcert.org/
ACADEMIC POLICIES
POLICIES ON STUDENT PROGRESSION

COURSE REQUIREMENTS
1. Prerequisites for courses outlined in the curriculum must be met in order to follow the necessary educational sequence.
2. Students are responsible for accessing courses through Blackboard Learn (Jefferson.blackboard.com) and downloading all course syllabi, handouts and assignments for each course every semester.
3. Students are responsible for completing course evaluations for each of their courses at the end of the semester. A link will be provided to the students at the end of the semester.
4. Students are responsible for checking their Jefferson e-mail accounts daily.
5. Students must complete the Health Insurance Portability and Accountability Act (HIPAA) and Safety Modules, prior to matriculation.

POLICIES ON STUDENT PROGRESSION IN THE RADIOLOGIC SCIENCES MAJOR
1. A student who earns one course grade of C- or below in the Radiologic Sciences curriculum in any academic year will be placed on departmental academic probation and will be required to meet with his/her assigned faculty advisor to monitor academic progress.
2. A student who earns two or more course grades of C- or below in the Radiologic Sciences curriculum in any academic year will be dismissed from the program in which he/she is currently enrolled. He/She will be subject to dismissal from the Department of Radiologic Sciences.
3. A student who earns a course grade of F in any Radiologic Sciences curriculum will be dismissed from the program modality in which he/she is currently enrolled. He/She will be subject to dismissal from the Department of Radiologic Sciences.
4. A multicompetency student who has been placed on departmental academic probation during his/her junior academic year, but has successfully completed his/her junior academic year, will be taken off departmental academic probation at the beginning of his/her senior academic year.
5. A student who does not maintain a minimum 2.00 cumulative grade point average will be placed on School academic probation for one semester. If the student is enrolled in courses totaling fewer than 12 credits during the subsequent semester, the probationary period will be extended to two semesters. At the end of the probationary period:
   a. The student achieves the minimum cumulative grade point average and is reinstated in good standing, or
   b. The student fails to achieve the minimum cumulative grade point average at the end of the probationary period and is dismissed from the School for academic underachievement, or
   c. In extraordinary cases, where the student has made significant progress toward achieving the minimum grade point average, the Department Chairperson may recommend granting one additional probationary semester. If, at the conclusion
of the extended probationary semester, the cumulative grade point average is still below the minimum 2.00, the student is dismissed for academic underachievement.

6. A student who is dismissed from the Department of Radiologic Sciences or the School of Health Professions due to unsatisfactory academic performance may, within one year of the dismissal, reapply for re-admission by submitting a written request directly to the Department Chairperson. After a one year time period, all applications for readmission must be made through the Office of Admissions. Please refer to the Academic Regulations section of the JCHP Course Catalog for the JCHP Readmission Statement.

7. A senior year multicompetency student who is dismissed from the Department of Radiologic Sciences due to unsatisfactory academic performance in his/her senior year may be given the option of applying for enrollment in a baccalaureate degree program in the Department of Professional & Continuing Studies.

8. Incomplete grades for a Radiologic Sciences course can be assigned only in the case of extenuating circumstances. These circumstances must be reviewed by the faculty prior to the issuance of an “Incomplete” grade. In all cases, an “Incomplete” grade is assigned only when the work already done has been of a quality acceptable to the instructor.

Every student is required to meet with his or her faculty advisor at least once during each semester.
COMPETENCY-BASED CLINICAL EDUCATION
COMPETENCY BASED CLINICAL EDUCATION

Competency-based clinical education has been established for the students enrolled in the Department of Radiologic Sciences programs. It is designed to permit accurate assessment of the cognitive, psychomotor and affect learning domains of students in addition to the requirements of the clinical education component of the program. Evaluation of students’ clinical competencies is completed by registered technologists under the direction of the Clinical Affiliate Supervisor.

All students must attend a minimum number of clinical training hours (see clinical syllabus). All students must complete clinical competencies in accordance with the requirement of their certification body, as applicable.

CLINICAL EDUCATION ELIGIBILITY

To be assigned to a Clinical Education Affiliate site, the student must meet the following requirements or obligations:

- Be a student in good academic standing in the Department of Radiologic Sciences.
- Maintain a cumulative grade point average of 2.00 or higher.
- Provide and maintain proof of certification in adult, child and infant cardiopulmonary resuscitation (BLS/CPR/AED for Healthcare Provider).
- Provide a current health certificate from a licensed physician indicating that the student is in good health. The document should include a description of any physical disability that may require monitoring during the student's course of study. If a disability interrupts the student's course of study, it should be discussed with the Clinical Coordinator.
- Meet program specific technical standards Appendix A.
- Use personal or public transportation to clinical sites. Commuting time and costs are not determining factors for clinical assignments. These time and cost factors are borne solely by the student.
- All immunization requirements must be completed prior to commencing or resuming clinical courses. Failure to meet these health requirements will result in the delay of clinical practical or the failure of clinical courses.
- Be in compliance with the University requirements for influenza vaccination.
- Additional requirements may be needed.
- Students not in compliance are not permitted to attend classes or clinical
CLINICAL PRACTICES AND POLICIES
CLINICAL PRACTICES AND POLICIES

1. Attendance at clinical practical is mandatory.
2. A student who does not demonstrate safe clinical practice will be in violation of clinical practices and policies.
3. A student who does not demonstrate professional behavior and professional practice is subject to review by the faculty.
4. Safe clinical or professional practice is defined as:
   a. Adheres to the Patients’ Bill of Rights - Appendix B.
   b. Performs clinical duties consistent with the professional Code of Ethics - Appendix C.
   c. Receives passing grades on clinical evaluations as evaluated by qualified personnel. See course syllabus.
   d. Adheres to the code of behavior/conduct outlined in the JCHP and Department of Radiologic Sciences handbooks.
   e. Adheres to all clinical practices and policies of the clinical site and JCHP and Department of Radiologic Sciences.
   f. Adheres to departmental radiation protection and monitoring practices where appropriate* - Appendix D, E & F (*only applicable to modalities that use ionizing radiation).

VIOLATIONS OF CLINICAL PRACTICES AND POLICIES

Violations of Clinical Practices and Policies will typically be addressed through progressive discipline, as follows:

- First violation – written warning and counseling by the Program Director /Clinical Supervisor.
- Second violation – possible suspension or dismissal.
- Third violation – dismissal from the Department.

Depending on the particular circumstances, one or more progressive disciplinary steps may be skipped in instances of particularly serious violations of policies and/or practices, and some egregious violations may result in immediate dismissal from the Department.

POLICY GOVERNING CLINICAL EDUCATION SCHEDULING

The purpose of the clinical assignment is to correlate didactic knowledge with practical skills.

The total number of students assigned to any clinical site shall be determined by the Department of Radiologic Sciences and approved by program accreditation bodies.

The student is subject to all rules and regulations of the clinical site. The clinical education center reserves the right to suspend or terminate from the clinical site a student who does not adhere to established policies of the program or the clinical site. A student who does not maintain appropriate behavior may be suspended or dismissed immediately. (Refer to the section entitled "Responsibilities of the Student" on page 14.)
If a student is suspended or dismissed from a clinical site, the Department Chair, Program Director/Clinical Coordinator will review the circumstances for this action. All parties are encouraged to address the issue promptly in writing (within five (5) business days whenever possible) so that resolution of grievance should require no more than three (3) weeks. If the decision to dismiss is upheld, the clinical dismissal will result in a final grade of “F”. Students who have reason to believe that the grade has been inappropriately assigned may request a review of the grade in accordance with the provisions of the Grade Appeal Protocol, which is published in the JCHP Student Handbook. For dismissal due to Unsafe Clinical Performance, students will follow the Policy on Dismissal for Unsafe Clinical Performance, which is published in the JCHP Student Handbook. All Jefferson College of Health Professions (JCHP) & University Policies are found in the JCHP student handbook located at the following link: www.jefferson.edu/handbook

**CLINICAL SITE ASSIGNMENT**

The Program Director/Clinical Coordinator determines student schedules and assignments at clinical education centers. Assignments at the clinical sites are intended to provide the student with a comprehensive clinical education as deemed appropriate by the faculty, and serves to correlate didactic knowledge with practical skills. Students are not guaranteed a specific clinical site, however, student input is considered. Should a student be dismissed from his/her clinical site, the department does not guarantee reassignment to an alternate site.

Student's clinical assignments will be based on:
- Student's experience and competency level.
- Clinical education needs, directed toward reaching the highest level of competency in medical dosimetry skills.

Any student requesting changes in the clinical schedule must submit written justification for the change to the Program Director. A decision will be made based on the student's educational needs and site availability.

**RESPONSIBILITIES OF THE CLINICAL AFFILIATE SUPERVISORS/INSTRUCTORS**

The clinical affiliate supervisors/instructors are available to students whenever they are assigned to a clinical setting. Responsibilities include:
- Providing orientation to the clinical department.
- Providing appropriate clinical supervision.
- Student clinical evaluation.
- Providing feedback to the student(s).
- Providing feedback to the program director/c clinical coordinator.
DIRECT SUPERVISION
All clinical assignments shall be carried out under the direct supervision of qualified Dosimetrists/Personnel - qualified personnel are “immediately available”

“Immediately available” is interpreted as the presence of a qualified dosimetrist/physicist adjacent to the room or location where the treatment planning procedure and calculations are being performed. This availability applies to all areas where treatment planning systems are in use as well as the following:

The Parameters of direct supervision by qualified personnel include:

- During any procedures involving direct patient contact, such as Fabrication of Immobilization devices, Simulation, Brachytherapy Procedure, Set-up in a Treatment Room, etc
- Any treatment plans which are used directly for patient care, **MAY NOT** be shown to the Radiation Oncology Physician UNLESS it has been FIRST approved by a qualified physicist or dosimetrist
- All approved dosimetry calculations and treatment plans are to be implemented for patient care **ONLY** under Direct Supervision by a qualified dosimetrist/physicist

The Direct Supervision Policy Sign must be posted in all areas where the Medical Dosimetry student may be under the direct supervision of qualified personnel (see **Appendix I**). The Clinical Affiliate Supervisor will return the signed form documenting that the Direct Supervision Policy has been reviewed with the Medical Dosimetry student as well as all of the appropriate Clinical Staff (**Appendices J & Ja**)

RESPONSIBILITIES OF THE DEPARTMENT CLINICAL COORDINATOR
The Department of Radiologic Science Clinical Coordinator coordinates the daily operations of clinical education. Duties include, but are not limited to:

- Providing clinical education centers.
- Mentoring students.
- Supervising students.
- Advising students.
- Providing guidance to clinical instructors.
- Reviewing program policies and procedures with clinical affiliate supervisor/instructors.
RESPONSIBILITIES OF THE STUDENT

The student is responsible for:

- Displaying professional appearance in compliance with the dress code policy.
- Establishing harmonious working relationships and earning the respect of the radiologic sciences personnel through a professional and dignified posture and attitude.
- Using all equipment and materials responsibly and safely.
- Embodying the highest standards of civility, honesty, and integrity.
- Respecting and protecting the privacy, dignity, and individuality of others.
- Observing and assisting the clinical staff.
- Attending and participating in all scheduled clinical activities.
- Consulting with clinical site supervisors and/or departmental faculty for help with problems.
- Participating in the development of an individualized clinical education plan.
- Maintaining an accurate record of clinical examinations/competencies.
- Recording the number and types of evaluations required during each academic semester.
- Striving to broaden his/her knowledge and background on clinical subject matter by reading professional literature and attending conferences and seminars.
- Incurring all travel costs and expenses.
- Meeting with faculty advisor at least once per semester.
- **Students are responsible for checking their Jefferson e-mail accounts daily. All Program related correspondence will be done through this account ONLY.**
DEPARTMENT POLICY ON CONDUCT
Students must comply with the rules and regulations of the Department of Radiologic Sciences. Deviation constitutes misconduct. This includes, but is not limited to:

- Sleeping during a clinical assignment.
- Failure to actively participate in clinical education.
- Leaving a clinical assignment or room/area assignment without qualified staff’s permission.
- Failure to notify Clinical Education Affiliate and the Program Director/Clinical Coordinator of absence or lateness.
- Using a cell phone (in any mode – call, text, checking e-mail, etc) OR any other electronic device during clinical hours. The Clinical Site Phone number is to be used as the student’s contact number for emergencies, unless otherwise arranged with the Clinical Supervisor for extenuating circumstances. In these instances, the cell phone MUST BE placed on VIBRATE.
- Using the hospital computer for any reason EXCEPT hospital business.
- Violation of any duly established rules or regulations. Cannot receive or obtain patient images and information that has not been de-identified

FAMILY/FRIENDS WORKING AT CLINICAL SITE POLICY

It may be deemed a conflict of interest for a student to be supervised or evaluated by family members or friends employed at his/her clinical site. If this situation arises, the student should inform his/her Program Director/Clinical Coordinator, so that alternative arrangements can be considered.

FAMILY MEMBERS/FRIENDS CLASSROOM, LAB & CLINICAL POLICY

At the Clinical Affiliate
- Family and friends should be discouraged from visiting the clinical site. In particular, unsupervised children are not permitted.
- Family and friends must wait in a public area, and are not permitted in scanning or treatment rooms.
- It is not acceptable for students to entertain their family and friends and neglect their professional duties.
- Students may not ask clinical affiliate staff to baby-sit for them.
- TJU’s liability insurance does not extend to students’ family and friends.

In the RS Department
- Students should discourage their family and friends from visiting the RS department while they (the students) are in class.
- Family and friends are not permitted to attend lectures or laboratory sessions
- Unaccompanied children are not permitted in the RS department.
• Students may not ask faculty or administrative staff to baby-sit for them.
• TJU’s liability insurance does not extend to students’ family and friends.

In the Radiologic Science (RS) laboratories (Sonography, Radiography, Nuclear Medicine, Dosimetry Planning Room and/or VERT Room)
• Only Radiologic Science students with proper Jefferson ID are permitted in the laboratory.
• The students are not permitted to bring family members or friends in the laboratory at any time.
• Other Jefferson students or employees who are not part of the Radiologic Sciences department are not permitted in the RS laboratory unless they have signed a waiver to be used as a student volunteer.
• TJU’s liability insurance does not extend to students’ family and friends
• The students should inform the security guard on 1st floor Edison, both when entering and leaving the laboratory, outside of the regular assigned hours.

Failure to comply with the policy may result in disciplinary action up to and including dismissal from the program.

**DRESS CODE POLICY**

**Uniforms**
• The dress code for students enrolled in Medical Dosimetry Program consists of business casual attire. A Jefferson ID badge needs to be worn at all times during clinical rotations.
• A short (blazer) length white lab coat jacket will also be purchased as a required part of the dress code. A TJU Patch must be sewn on the right sleeve/shoulder of the short white jacket with the profile facing forward.
• Name tags must be visible to patient and staff and worn at all times.
• Clogs, sandals or open-toed shoes are not permitted. Students are responsible for keeping shoes neat, clean, and polished. Shoestrings should also be kept clean and properly tied. Sneakers must be ALL black (no other colors) – low top sneakers are permitted.

**Appearance**
• Students are required to practice good personal hygiene and present a professional appearance at all times – at clinical and when on TJU campus.
• Appropriate and clean attire is required during ALL clinical and didactic sessions.
• Unacceptable apparel includes: short skirts/pants, torn/ripped garments, low-cut tops (no cleavage is to be visible) , lewd and/or suggestive slogans on any clothing, pajamas, etc
• Keep hair, mustaches and beards neatly trimmed. No extreme hairstyles or hair ornamentations will be considered professional.
• Fingernails:
  - No artificial nails.
  - Nail length must be no more than ¼ inches past fingertip
• Keep jewelry to a minimum. Earrings should be of the small type. Hanging earrings MAY NOT be longer than one inch. Only one earring per ear
• Any body piercing besides the ears should not be evident at clinical site. Tongue rings are unacceptable and are not allowed to be worn.
• Wear makeup conservatively. No strong perfumes, colognes, lotions or powders are to be worn at clinical sites.
• Any visible tattoos must be appropriately covered.
• Chewing gum is not permitted.
• Students are required to wear identification and radiation badges supplied by Thomas Jefferson University, and Clinical Affiliate Sites if provided, at all times.

VIOLATIONS OF DRESS CODE POLICY
Any student not complying with the dress code policy will be removed from the clinical site. Any clinical time missed due to dress code violation will be made up by the student at a later date. The Program Director/Clinical Coordinator in cooperation with the Clinical Affiliate Supervisor will determine make-up time. In addition:
• First Violation – written warning and counseling by the Program Director and Clinical supervisor
• Second Violation – possible suspension
• Third Violation – dismissal from the Department
Depending on the particular circumstances, one or more progressive disciplinary steps may be skipped in instances of particularly serious violations of policies/practices, and some egregious violations may result in immediate dismissal from the Department

STUDENT WORK POLICY
If a student is employed at any clinical site, he/she must abide by the following policies:
• Students must notify Program officials that they are working at the clinical site
• Students are not permitted to work during scheduled clinical hours.
• Students may not wear student uniforms or Jefferson ID.
• Students may not accrue competencies during non-clinical hours.
• Students may not apply work time to make-up time.
• Students are not covered by Jefferson liability insurance during non-clinical hours.

CELL PHONE/BEEPER POLICY
Cell phones and beepers must be placed on vibrate during lectures and laboratory sessions. Instructors will not tolerate interruptions from these devices and may ask the student to leave the classroom.
Students may not carry cell phones or beepers with them during clinical hours. These devices must be placed in lockers. Any student in violation of this policy will be asked to leave his/her clinical site and will be marked absent for that day.

In limited circumstances demanding immediate personal phone use, students should seek approval from their supervisor for any incoming communication, whether via call or text message, to ensure they are sanctioned.

**COMPUTER POLICY**

Students may not use computers for personal business during clinical hours. Personal business includes (but is not limited to) Internet surfing, shopping, emailing and instant-messaging.

Any student in violation of this policy will be asked to leave his/her clinical site and will be marked absent.

**VIOLATIONS OF THE CELL PHONE/BEEPER AND COMPUTER POLICIES**

Violations will typically be addressed through progressive discipline, as follows:

- First Violation – written warning and counseling by the Program Director and Clinical supervisor
- Second Violation – possible suspension
- Third Violation – dismissal from the Department

Depending on the particular circumstances, one or more progressive disciplinary steps may be skipped in instances of particularly serious violations of policies/practices, and some egregious violations may result in immediate dismissal from the Department.
HEALTH INFORMATION CONFIDENTIALITY POLICY:
HEALTH INSURANCE PORTABILITY AND ACCOUNTABILITY ACT (HIPAA)
Students must maintain strict confidentiality of all health information of patients at clinical affiliate sites during and after the course of their clinical rotations. Students may neither use nor disclose health information of patients to which they have access, other than as expressly authorized by the clinical affiliate. Students may not record any patient-identifiable information on their personal documents (e.g. clinical logs). Students must be familiar with and adhere to their clinical site HIPAA policy.

PREGNANCY POLICY
If a student becomes pregnant during a component of the program, she may voluntarily inform the Program Director, in writing, of her pregnancy.

Option 1 The student may continue in the program if she chooses, without modifications to any component of the program.

Option 2 The student may take a leave of absence from clinical education, but continue her didactic studies. Clinical assignments will be completed when the student returns.

Option 3 The student may withdraw from the program and reapply in accordance with College policies.

Option 4 The student, in writing, may withdraw her declaration of pregnancy at any time and/or for any reason.

Due to the need for special radiation protection education, counseling by the radiation safety officer (RSO) is available.

INCIDENT REPORTS AT THE CLINICAL EDUCATION SITES
If a student is injured or involved in an incident during a clinical rotation, he/she must:
1. Report immediately to his/her supervisor and follow departmental protocol.
2. Report immediately to the Program Director/Clinical Coordinator
3. Present a note to the Program Director/Clinical Coordinator from the Emergency Room Physician, Student Health Physician, or family physician stating the date the student may resume normal duties.
4. Student must report to Student Health Services as soon as possible (215-955-6835).

If a patient is injured while in the student's care, the student must:
1. Make sure that the patient is safe.
2. Report the incident immediately to the supervisor and follow departmental protocol.
3. Report the incident immediately to the Program Director/Clinical Coordinator.
INFECTIONOUS DISEASES

Should a student be diagnosed as having an infectious disease, he/she must report such diagnosis to the Clinical Coordinator and the Clinical Affiliate Supervisor. The student may be asked to leave clinical until cleared by his/her physician. The student must present a physician’s note to the Clinical Coordinator stating that the student may resume normal duties.

MEDICAL LEAVE OF ABSENCE

For medical leave of absence, student must proceed through the University Health Services (UHS), which will notify the office of the Dean of its recommendation regarding a medical leave. No medical leaves will be reviewed or received without the endorsement of the Director of UHS.

Medical leaves will be for a period of up to one year. A leave of more than one year’s duration will be granted only under the most extraordinary circumstances and only after review by the office of the Dean. Prior to reentry, which may be applied for prior to the one-year anniversary, appropriate medical screening will be arranged by the Director of University Health Services with consultation, if necessary, to provide assurance of the students fitness to return to class.
DIDACTIC/LABORATORY INSTRUCTION

Each course syllabus details the attendance policy. (See Appendix K for Student Religious Observance Policy)

CLINICAL ATTENDANCE RECORDS

Attendance Sheets provided by the Department are used for documenting clinical hours. Each student must personally sign the attendance form. Time not documented must be made up.

CLINICAL EDUCATION HOURS

Total clinical assignments will not exceed 40 hours per week. Assignments on any one day will not exceed 8 hours, unless otherwise requested by the student and approved by the Program Director/Clinical Coordinator in conjunction with the Clinical Affiliate Supervisor, or if patient care responsibilities dictate otherwise. No student will be permitted to leave a patient during the course of an examination, even if such completion requires remaining on duty beyond the end of the shift.

Students will be assigned a lunch period each day, which they are required to take. The lunch break will be commensurate with the practice of the department and area/rotation assignment. The lunch break may not be used to make-up or accrue time.

Clinical Affiliate Supervisors may re-schedule students (within an assigned eight hours) to provide complete exposure to the unique learning opportunities in radiologic sciences. The Clinical Affiliate Supervisor must notify the Program Director/Clinical Coordinator of these changes.

Students will participate in designated procedures during their clinical assignments under the guidance of qualified personnel in the areas to which they are assigned.

PERSONAL DAYS

Students are permitted ONE Personal Day PER SEMESTER. This time cannot be taken in half-days. Time off must be taken in full (8) hours. It must be used during the allotted semester and is not transferable to another semester. Students may not accrue additional personal any time during the year. This Personal Day off is for a Clinical Day ONLY. A missed Class Day will be reflected in the Course Grade as per the Instructor’s Syllabus.

Any absence on a clinical day (REGARDLESS of the REASON – sickness, car trouble, weather, religious observance, etc) will be counted as a used Personal Day. Extenuating circumstances will be addressed on an individual basis with the Program Director and the Clinical Affiliate Supervisor.

Advance notice is required for approval by the Clinical Supervisor. The completed form will be submitted to the Program Director within two days of the day off.
ABSENCE POLICY

Attendance is required for all clinical practicum sessions. If a student will be absent from a clinical assignment, he/she must call both the Clinical Affiliate Supervisor and Program Director/Clinical Coordinator prior to the start of the shift. Three or more consecutive absences require a doctor’s note. However, any sick days (even with a doctor’s note) are not considered excused absences – make-up time will be required. Extenuating circumstances will be dealt with on an individual basis.

If an emergency arises requiring an early departure from the clinical site, the student must notify both the Clinical Affiliate Supervisor and the Program Director/Clinical Coordinator. It is the responsibility of the student to make these calls. Absences must be made up at the discretion of the faculty.

PUNCTUALITY

Any student who is not in his/her clinical area at the assigned time will be considered late. A student who is late three times in one semester will be counted as one day’s absence. Habitual lateness could lead to dismissal from the program.

It is the policy of the Department of Radiologic Sciences that any student who is going to be late must notify both the Clinical Affiliate Supervisor and the Program Director/Clinical Coordinator prior to the start of his/her assigned time. All lost time due to lateness from the clinical area must be made up by the student. Failure to abide by these policies could lead to dismissal from the program.

A student will be advised in writing concerning his/her habitual lateness or violation of the Department of Radiologic Sciences lateness policies by the Clinical Coordinator and/or Program Director.

Disciplinary actions including suspensions from the clinical site or dismissal from the program may be taken against students who persist in habitual lateness or violations of the Departmental of Radiologic Sciences lateness policies, after previously having been counseled in writing by the Clinical Coordinator and/or Program Director at an Advisement Conference.

MAKE-UP TIME

Arrangements must be made with the Clinical Affiliate Supervisor and approved by the Program Director/Clinical Coordinator.

The make-up time form is signed upon fulfillment of the time missed. The form will be submitted to the Program Director/Clinical Coordinator.

All clinical absences must be made up at the Clinical Affiliate where the time was missed, consistent with the assignments in effect when the absence occurred. The lunch break may not be used to make-up or accrue time.
POLICY CONCERNING DEATH IN THE FAMILY
Upon notification to the Program Director, students will be allowed a maximum of three (3) days of leave of absence for death in the immediate family. Immediate family members include parents, grandparents, spouse, brother, sister or child. Leaves of absence requested because of the death of someone other than an immediate family member may be granted by special permission.

HOSPITAL JOB ACTIONS OR STRIKES
Whenever a strike or job action occurs at an assigned clinical site, the student must leave the assignment immediately and report to the Clinical Coordinator for further directions.

At no time should a student attempt to cross a picket line to enter a Clinical Education Center.

JURY DUTY
Being selected for jury duty is a civic responsibility in which the Department encourages students to participate. Please be advised that the college cannot intervene on the student's behalf should a student be summoned for jury duty. Documentation of jury attendance will be submitted to the Program Director upon return to clinical/class.
STUDENT ACTIVITIES
STUDENT ACTIVITIES
Students are encouraged to participate in campus activities, e.g., orientation programs, recruitment functions, social and cultural events, interprofessional activities and Class Night. They have the opportunity to represent the students’ viewpoints on Department, College and University committees. The University and Thomas Jefferson University Hospital sponsor many volunteer and mentoring programs. Professional organizations, Jefferson Alumni Association and the College sponsor many programs that focus on career and professional development.

HONORS AND AWARDS
Students are eligible for:
- JRCERT awards for clinical excellence.
- Department award/s
Awards are presented during class night.

PROFESSIONAL SOCIETIES
Students are strongly encouraged to participate in professional activities and to seek memberships in national, state and local societies. These organizations sponsor competitions for students and several offer scholarships and educational grants.

PROFESSIONAL ORGANIZATIONS:
- American Association of Medical Dosimetrists (AAMD)
  www.medicaldosimetry.org
  12100 Sunset Hills Road, Suite 130  Reston, VA  20190    Ph: 703-234-4063

- American Society of Radiologic Technologists (ASRT)
  www.asrt.org
  15000 Commerce Parkway, Suite C   Mt. Laurel, NJ  08054   Ph:  866-813-6322

HONOR SOCIETIES
- Alpha Eta Society
  - Honor society for health professionals
  - http://www.alphaeta.net
- Lambda Nu Society
  - Honor society for radiologic and imaging science professionals
  - http://www.lambdanu.org
Appendix A

Technical Standards for a Medical Dosimetrist

A Medical Dosimetrist is typically employed in a hospital or outpatient oncology center. Clinical and laboratory assignments for the Dosimetry program require certain physical demands that are the technical standards of admission. These standards are based upon Standards of Practice for the Medical Dosimetrist. Listed below are the technical standards which all applicants must meet in order to participate and complete the dosimetry program.

1. Sufficient visual acuity to read prescriptions & charts, medical images, computer displays, and observe conditions of the patient.
2. Sufficient auditory perception to receive verbal communication from patients and members of the healthcare team and to assess the health needs of people through the use of monitoring devices such as intercom systems, and fire alarms, etc.
3. Sufficient gross and fine motor coordination to respond promptly and to implement skills related to the performance of simulation and treatment planning on computer. Dosimetrists must be able to manipulate equipment such as the linear accelerator, treatment table and control panel.
4. Sufficient communication skills (verbal, reading, writing) to interact with individuals and to communicate their needs promptly and effectively, as may be necessary in the patient’s/client’s interest.
5. Sufficient intellectual and emotional function to plan and implement patient care.

Examples of specific technical standards the dosimetry student must be able to meet are:

- Lift, transfer and/or move patients from wheelchair/stretcher to simulation or treatment table.
- Stand and reach to make measurements of patients
- Manual dexterity and ability to bend/stretch
- Distinguish colors and shades of gray
- Grasp complex 3-D spatial relationships
- Demonstrate effective interpersonal skills, including patient instruction
- Read and extract information from the medical chart or patient prescriptions
- Explain the clinical study and treatment plan verbally and/or in writing
- Physical and mental abilities to handle moderate and frequent exposure to infectious agents (blood, urine etc.) and moderate and limited exposure to ionizing radiation
- Ability to lift 30 pounds of weight (treatment aids).
- Ability to type and use a computer keyboard and mouse and read or draw contours on screen
APPENDIX B

Patients’ Bill of Rights

We consider you a partner in your hospital care. When you are well informed, participate in treatment decisions, and communicate openly with your doctor and other health professionals, you help make your care as effective as possible. This hospital encourages respect for the personal preferences and values of each individual.

While you are a patient in the hospital, your rights include the following:

- You have the right to considerate and respectful care.
- You have the right to be well informed about your illness, possible treatments, and likely outcome and to discuss this information with your doctor. You have the right to know the names and roles of people treating you.
- You have the right to consent to or refuse a treatment, as permitted by law, throughout your hospital. If you refuse a recommended treatment, you will receive other needed and available care.
- You have the right to have an advance directive, such as a living will or health care proxy. These documents express your choices about your future care or name someone to decide if you cannot speak for yourself. If you have a written advance directive, you should provide a copy to your family, and your doctor.
- You have the right to privacy. The hospital, you doctor, and others caring for you will protect your privacy as much as possible.
- You have the right to expect that treatment records are confidential unless you have given permission to release information or reporting is required or permitted by law. When the hospital releases records to others, such as insurers, it emphasizes that the records are confidential.
- You have the right to review your medical records and to have the information explained except when restricted by law.
- You have the right to expect that the hospital will give you necessary health hospital services to the best of its ability. Treatment, referral, or transfer may be recommended. If transfer is recommended or requested, you will be informed of risks, benefits, and alternatives. You will not be transferred until the other institution agrees to accept you.
- You have the right to know if this hospital has relationships with outside parties that may influence you treatment and care. These relationships may be with educational institutions, other health care providers, or insurers.
- You have the right to consent or decline to take part in research affecting your care. If you choose not to take part, you will receive the most effective care the hospital otherwise provides.
- You have the right to be told of realistic care alternatives when hospital care is no longer appropriate.
• You have the right to know about hospital rules that affect you and your treatment and about charges and payment methods. You have the right to know about hospital resources, such as patient representatives or ethic committees that can help you resolve problems and questions about your hospital stay and care.

• You have responsibilities as a patient. You are responsible for providing information about your health, including past illnesses, hospital stays, and use of medicine. You are responsible for asking questions when you do not understand information or instructions. If you believe you can't follow through with your treatment, you are responsible for telling your doctor.

• This hospital works to provide care efficiently and fairly to all patients and the community. You and your visitors are responsible for being considerate of the needs of other patients, staff, and the hospital. You are responsible for providing information for insurance and for working with the hospital to arrange payment, when needed.

• Your health depends not just on your hospital care but, in the long term, on the decisions you make in your daily life. You are responsible for recognizing the effect of life-style on your personal health.

• A hospital serves many purposes. Hospitals work to improve people's health; treat people with injury and disease; educate doctors, health professionals, patients, and community members; and improve understanding of health and disease. In carrying out these activities, this institution works to respect your values and dignity.
Appendix C

AAMD Code of Ethics

Preamble

The purpose of the American Association of Medical Dosimetrists (AAMD) Code of Ethics is to establish an ideal of professional conduct to which members of the Medical Dosimetry profession should aspire. The Code of Ethics expresses the moral values of the AAMD. While, by itself, the AAMD cannot create or reform moral character, it may at least inform a conscience. Such a code also signals the organization is moral commitment to those who depend upon its members for services. In any profession, the test of moral seriousness depends upon personal compliance with ethical standards.

As Medical Dosimetrists, our primary objective is to use our training, experience, skills, and talents for the benefit of society. To this end, we recognize our professional relationships with and obligations to the:

(1) **Patient.**

Although never directly responsible for prescribing medical procedures, the health and welfare (even life) of many patients may directly depend upon the skill and dedication with which Medical Dosimetrists carry out their work.

(2) **Employer or Client.**

As professionals, Medical Dosimetrists have the obligation to act as faithful agents for their employers or clients and to devote their skills and talents to further the legitimate aims of their employers. In turn, they have the right to expect rue professional consideration from their employers or clients.

(3) **Fellow Medical Dosimetrists.**

Medical Dosimetrists should contribute to the advancement of their profession and should avoid all practices which detract from the stature of Medical Dosimetry.

In furtherance of the principles stated in this preamble, the AAMD has adopted this Code of Ethics.
Principles of Ethics

The following principles represent goals to which all Medical Dosimetrists should aspire:

(1) Medical Dosimetrists are obliged to uphold the honor and dignity of their profession by exhibiting sound moral character and the highest degree of competence in their work.

(2) Medical Dosimetrists must be honest and forthright at all times in their dealings with employers, clients, and patients. Remuneration expected should be consistent with the type and quality of service provided.

(3) Patient privacy must be respected and confidentiality of patient information must be maintained.

(4) Medical Dosimetrists should strive continually to improve their knowledge and skills and participate in programs that lead to the improvement of the Medical Dosimetry profession and the health of the community.

(5) Collegiality, openness, and mutual respect shall characterize the relationships among Medical Dosimetrists.

(6) Medical Dosimetrists should conduct their affairs in a manner consistent with standards of excellence.

http://www.medicaldosimetry.org/generalinformation/mission.cfm
Appendix D

Radiation Protection Practices

RADIATION PROTECTION PRACTICES

1. A student is required to exercise sound radiation protection practices at all times. At no time may a student participate in a procedure utilizing unsafe protection practices.

2. A student must be aware of and enforce the policies and procedures of radiation safety in keeping with institutional, state, and national standards.

3. A student will always wear radiation dosimeters in the Clinical Site.

4. A student will wear the radiation film badge outside the clothing, on the torso. A ring badge will be worn when handling radioactive materials.

5. A student will always remove personal radiation dosimeters while having diagnostic medical or dental radiographs taken.

6. A student who deliberately exposes his/her radiation dosimeter will be suspended and/or dismissed from the program.

7. A student will use appropriate shielding.

8. Radiation protection of the patient and others within the examination room is the student's responsibility when he/she is performing the study.

9. A student may not procedures utilizing ionizing radiation on other students or staff at their request without a prescription for the exam by a physician. The student will be dismissed from the program for this violation.*

10. A technologist or physician may not perform procedures utilizing ionizing radiation on a student without a prescription for the exam from the student’s physician. The student will be dismissed from the program for this violation.*

*(PA Code, Title 25. Environmental Protection. Department of Environmental Protection, Chapter 211.11.)
APPENDIX E

Personal Radiation Monitoring

PERSONNEL RADIATION MONITORING

1. Each student is responsible for wearing properly dated radiation dosimeters (body and ring badges) at Clinical Sites.

2. Dosimeters will be given to students each month.

3. Each student is responsible to submit the TLD monitoring badge on time to the Program Director.

   A $20.00 cash fee will be collected for all unreturned or late TLD’s

4. Dosimeter loss or accident must be reported immediately to the Program Director.

5. The Program Director receives radiation dose reports from the RSO, and informs each student of his/her exposures.

6. Monthly radiation exposures for students must not exceed the maximum permissible dosage to occupationally exposed persons as established by state and federal agencies for radiologic health.

   The Office of Radiation Safety maintains a history of each individual’s exposure and anyone may examine his/her own radiation exposure record, or obtain a copy by sending a signed, written request to the Radiation Safety Office.

7. “High” Radiation Dosimeter Readings

   High or unusual radiation dosimeter readings are investigated by Thomas Jefferson University’s Radiation Safety Officer. Readings above designated “Investigation Levels” are evaluated with regard to workload and type of duties performed by the dosimeter wearer; adherence to proper work practices; proper care and use of the dosimeter; and possible exposure of the dosimeter to “non-occupational” radiation sources. In cases where it appears that the high readings may be due to inadequate safe work practices or improper use or storage of the dosimeter(s), the wearer is counseled by Radiation Safety Officer and/or the wearer’s supervisor(s).
APPENDIX F

TJUH DEPARTMENT POLICIES & PROCEDURES

DEPARTMENT NAME: Radiation Safety

Policy No: RSO-053
Effective Date: 11/02/2000
Revision Date: 08/07/2014

Category: Operations - Programmatic
Title: Radiation Dosimeter Use
Policy Owner: John C. Keklak
Contributors/Contributing Departments:

PURPOSE

To assess employee occupational radiation dose from ionizing radiation sources external to the body.

POLICY

Radiation dosimeters (“individual monitoring devices” as defined in 10 CFR 20.1203) are to be issued for the purpose of assessing occupational radiation dose as follows:

1. Radiation dosimeters are to be issued to anyone (employee/student/volunteer) whose assigned duties involve potential exposure to ionizing radiation and whom the Radiation Safety Officer has determined meets the requirements for individual monitoring devices as described in applicable federal or state regulations.

2. Radiation dosimeters may also be required for individuals in specific work areas or performing designated tasks, even if not required by state or federal regulations.

3. Radiation dosimeters may be offered as an option to individuals in areas where use of individual monitoring devices is not required by regulations, but where employees may have concerns about their level of radiation exposure. Optional use must be approved by the appropriate Department and/or Division Head and the RSO.

4. Radiation dosimeter readings are routinely reviewed by Radiation Safety Staff and appropriate follow-up action taken as may be indicated by the results.
Definitions:

For the purposes of this Policy and related procedures, the following terms are defined.

“ALARA Investigation Levels” are pre-set dosimeter reading values that trigger formal reviews by Radiation Safety Staff. [ALARA stands for “as low as reasonably achievable” and is a radiation protection philosophy whereby the objective is to keep radiation doses to individuals and populations as far below (maximum) regulatory limits “as is reasonably achievable”.]

“ALARA Investigation Level 1” means total radiation doses in any single calendar quarter (e.g., January 1 to March 31) above the following:
- Effective Dose Equivalent (EDE) [“whole body”] above 125 mrem
- Lens Dose Equivalent (LDE) above 375 mrem
- Shallow (“Skin”) Dose Equivalent (SDE) above 1250 mrem
- Extremity Dose reading above 1250 mrem

“ALARA Investigation Level 2” means total radiation doses in any single calendar quarter (e.g., January 1 to March 31) above the following:
- Effective Dose Equivalent (EDE) [“whole body”] above 375 mrem
- Lens Dose Equivalent (LDE) above 1125 mrem
- Shallow (“Skin”) Dose Equivalent (SDE) above 3750 mrem
- Extremity Dose reading above 3750 mrem

“Dose Equivalent” means the absorbed radiation dose to a human being, modified by appropriate radiation weighting factors, depending on the type of ionizing radiation source, or tissue/organ weighting factors (as may be necessary).

“Effective Dose Equivalent” (for the purposes of this policy) means the deep dose equivalent (tissue dose from external radiation sources at 1 cm below the surface of the skin) as measured by a radiation dosimeter, adjusted where appropriate by mathematical formulas to take into account the wearing of protective lead garments in the presence of diagnostic energy x-ray radiation.

“Extremity Dose” means the dose equivalent (tissue dose from external radiation sources) to the hands or forearms (below the elbows), or to the feet or lower legs (below the knees) determined for a tissue depth of 0.007 cm, as measured by a radiation dosimeter (e.g., ring dosimeter).

“Lens Dose Equivalent” means the dose equivalent (tissue dose from external radiation sources) determined for a tissue depth of 0.3 cm, as measured by a radiation dosimeter “Millirem (mrem)” is a unit of measure for any “dose equivalent” terms.

Date: 08/07/2014
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“Radiation dosimeters (individual monitoring devices”) means devices designed to be worn by a single individual for the assessment of dose equivalent such as film badges, thermoluminescence dosimeters (TLDs), pocket ionization chambers, etc.

“Shallow (“Skin”) Dose Equivalent” means the dose equivalent (tissue dose from external radiation sources) determined for a tissue depth of 0.007 cm, as measured by a radiation dosimeter.

Procedures:

[The following procedures and/or requirements have been approved by the Jefferson Radiation Safety Committee and instituted by the Radiation Safety Officer under his authority as established by federal and state regulations and institutional policy.]

Dosimeter Wearer Responsibilities

1. Regardless of whether the dosimeters are issued as required or optional, any employee who is issued any dosimeter is responsible for:

   a. Wearing the dosimeter while on duty in those areas where there is a potential for radiation exposure.

   b. Exchanging worn dosimeters for new ones on the first workday of each wear period (e.g., first day of month or calendar quarter, depending on assigned wear period), unless the new replacement dosimeters’ arrival has been delayed, in which case the exchange may be made as soon as possible after the arrival of the new dosimeters).

   c. Taking proper care of dosimeters, as described by Office of Radiation Safety instructions, to avoid damaging or contaminating the dosimeters.

   d. Not storing dosimeters near radiation sources when not being worn.

   e. Not wearing dosimeters when being exposed to radiation sources for personal medical purposes (Notify Radiation Safety if this inadvertently occurs or you are administered a radiopharmaceutical).

   f. Notifying Radiation Safety immediately whenever dosimeters are lost, accidentally damaged, name change is required, place of work has changed, or any reason why accidental exposure may have occurred (i.e., dosimeter accidentally left near source when not worn).

   g. Returning all dosimeters and holders upon termination of duties with/near radiation sources.

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h. Notifying Radiation Safety/dosimeter distributor of pending employment termination.

i. Otherwise wearing assigned dosimeters in accordance with any other Office of Radiation Safety instructions

2. Failure to comply with guidelines and responsibilities listed above may result in forfeiture of (optional) dosimeters and/or disciplinary action.

3. Any inquiries related to dosimeter use should be directed to the individual’s supervisor, dosimeter distributor, or Radiation Safety.

**Dosimeter Issuance:**

Dosimeters are issued and distributed in accordance with internal Radiation Safety Department Procedure RSO-041: “Badging and Distribution”

Review of Dosimetry Readings

1) Dosimetry reports from Jefferson’s dosimetry provider (currently Mirion Technologies) are to be reviewed by Radiation Safety staff within 5 business days of receipt.

2) The purposes of such reviews are to:
   a) Determine if the reading is valid (accurately represents occupational radiation dose)
   b) Identify possible opportunities for intervention to reduce future dose

3) The reviewer is to examine readings for the following:
   a) Individual readings substantially above others doing similar work
   b) Individual readings substantially above the wearer’s past recorded readings
   c) Evidence of misuse or damage to the dosimeter
   d) Evidence of radioactive contamination to the dosimeter
   e) Calendar quarter total dose readings above “ALARA Investigation Levels” (see definitions)
   f) Evidence that the wrong analysis algorithms were applied by the vendor in generating the reported reading
   g) Evidence that the dosimeter had not been properly designated (e.g., “whole body” instead of “collar w/ EDE”)
   h) Any other contributing factor as may be identified in the vendor’s report notes.

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4) The reviewer is to look for possible causes for high or unusual readings including:
   a) Badges not being properly worn (wrong location, wrong orientation, worn outside of holder, etc.)
   b) Sub-optimal work practices by the wearer
   c) Dose to the dosimeter while not being worn (dosimeter left in room during procedures, dose stored near a radiation source or otherwise in a high background area, etc.)
   d) Dose due to the wearer undergoing a medical procedure involving radiation (e.g., wearer administered a Nuclear Medicine radiopharmaceutical as a patient)
   e) Dosimeter exposed to unusual environmental conditions (e.g., excessive heat)
   f) Any other potential cause

5) Regarding the review/investigation process:
   a) Reviews/investigations may require personal contact with the wearer and/or wearer’s supervisor in order to perform an evaluation as per the preceding item 4.
   b) All total readings above “ALARA Investigation Levels” are to be performed and documented. “Level 2” investigations should include direct contact with the wearer and evaluation of work practices where feasible, unless the readings are consistent with an historical pattern previously determined to be reasonable for the workload and practices employed.
   c) All ALARA Level Investigations are to be documented.
   d) Summary reports of readings above ALARA Investigation Levels are reported to the Radiation Safety Committee at its regular quarterly meetings.

6) Readings for dosimeters issued to specifically assess radiation dose to embryo/fetus of a pregnant individual are to be closely scrutinized with regard to cumulative dose being acquired through the gestation period, in case intervention (e.g., job reassignment) is necessary to assure that applicable dose limits are not exceeded.

**Dose History Adjustments:**

1) Readings determined to be due to non-occupational radiation sources, or to be inaccurate due to some identifiable cause may be adjusted.

2) Adjustments to the wearer’s occupational dose history are made after review by the Radiation Safety Officer by notifying the dosimetry vendor in writing, in accordance with the vendor’s procedures.

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Reports to Wearers:

1. Dosimeter wearers will be notified of radiation doses as obtained as per the criteria specified in regulations contained in 10 CFR 19 or any other applicable state or federal regulation.

2. Individuals may be notified if their cumulative readings in any calendar quarter exceed pre-established ‘investigation levels’, or if any unusual or apparently ‘high’ dosimeter reading(s) are identified by Radiation Safety personnel.

3. Regular dose reports [excised of personal information other than dosimeter wearer id number] are provided to the dosimeter distribution group distributor for availability to wearers.

4. Individuals may also obtain their dosimeter results by making proper request to the Radiation Safety Department. Such requests generally are required to be made in writing to protect the individual’s personal information from release to unauthorized personnel.

Confidentiality:

1. Individual radiation dose readings are considered as protected information and access to this information is limited to Radiation Safety personnel, supervisors, program directors, management personnel, members of the Radiation Safety Committee, regulatory inspectors, or others (with RSO approval) with a legitimate need-to-know,

2. Release of individual dose information in any circumstances is limited to the minimum necessary.

3. Any other personal information obtained by the Radiation Safety Department in the administration of the dosimeter program is treated as confidential.

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APPENDIX G

Accreditation Standards

Can be accessed at the following address:

JRCERT
20 N. Wacker Drive, Suite 2850
Chicago, IL 60606-3182
Phone: (312) 704-5300
Fax: (312) 704-5304
http://www.jrcert.org/
APPENDIX H

Descriptions of Clinical Education Forms

ATTENDANCE RECORD
Students must document their attendance on an Attendance Record form. It is the student’s responsibility to fill out the daily time sheet and submit it electronically to the Clinical Supervisor at the end of the month.
Attendance Record forms are to be verified by the Clinical Supervisor. Completed forms must be e-mailed to the Program Director by the Clinical Supervisor within two weeks of the end of the month or as requested by the Program Director.

CLINICAL COMPETENCIES EVALUATION
Clinical Affiliate staff is to complete these forms while evaluating students for competency in clinical procedures. Students will complete all of the competencies as assigned per semester unless there is a discussion and agreed upon sequence between the Clinical Supervisor and the Program Director.
All completed Clinical Evaluation forms must be submitted within two weeks at the end of the semester or as requested by the Program Director.

STUDENT PERSONAL EVALUATION
One Student Personal Evaluation form is to be completed by the Clinical Supervisor (or his/her designee) each semester.
Completed forms must be e-mailed to the Program Director by the Clinical Supervisor within two weeks of the end of the month or as requested by the Program Director.

PERSONAL DAY REQUEST
Students are permitted ONE Personal Day PER SEMESTER. It must be used during the allotted semester and is not transferable to another semester. This time cannot be taken in half-days. Time off must be taken in full (8) hours. Students may not accrue additional personal any time during the year. This Personal Day off is for a Clinical Day ONLY. A missed Class Day will be reflected in the Course Grade as per the Instructor’s Syllabus. Any absence on a clinical day (REGARDLESS of the REASON – sickness, car trouble, weather, religious observance, etc) will be counted as a used Personal Day. Extenuating circumstances will be addressed on an individual basis with the Program Director and the Clinical Affiliate Supervisor.
Advance notice is required for approval by the Clinical Supervisor. The completed form will be submitted to the Program Director within two days of the day off.
MAKE-UP TIME
Any clinical time missed (other than the allowed personal days) must be made up at a
time agreed on by the Program Director and the Clinical Supervisor.
The student must complete the Make-up Time form and have it e-mailed, in advance, to
the Program Director.
After completion of the make-up time, the student must have the Clinical Supervisor
forward the Make-up Time form via e-mail to the Program Director.
Students must have the Make-up Time forms submitted within two weeks of the
completed clinical time or as requested by the Program Director.

CLINICAL SITE EVALUATION
At the end of each semester, the student will evaluate his/her clinical site. The completed
form will be e-mailed to the Program Director within two weeks of the completion of the
semester.
APPENDIX I

THOMAS JEFFERSON UNIVERSITY
MEDICAL DOSIMETRY PROGRAM
DIRECT SUPERVISION POLICY FOR STUDENTS AT CLINICAL SITES

This document is to be placed in all areas at a clinical site where Medical Dosimetry students would be under the supervision of a Medical Dosimetrist, Physicist, Oncologist, certified Radiation Therapist Simulation Technologist, Nurse, etc.

This includes, but is not limited to, the Treatment Planning area, Treatment Room and Console, Nursing Station, Mold Room, Brachytherapy Suites or any other area where students would be participating in the care of a patient.

Direct Supervision

Students are to be directly supervised – (qualified personnel are “immediately available”). “Immediately available” is interpreted as the presence of a qualified dosimetrist/physicist adjacent to the room or location where the treatment planning procedure and calculations are being performed. This availability applies to all areas where treatment planning systems are in use as well as the following:

The Parameters of direct supervision by qualified personnel include:

- During any procedures involving direct patient contact, such as Fabrication of Immobilization devices, Simulation, Brachytherapy Procedure, Set-up in a Treatment Room, etc.

- Any treatment plans which are used directly for patient care, MAY NOT be shown to the Radiation Oncology Physician UNLESS it has been FIRST approved by a qualified physicist or dosimetrist.

- All approved dosimetry calculations and treatment plans are to be implemented ONLY under Direct Supervision by a qualified dosimetrist/physicist.
APPENDIX J

THOMAS JEFFERSON UNIVERSITY
MEDICAL DOSIMETRY PROGRAM DIRECT SUPERVISION POLICY
FOR STUDENTS AT CLINICAL SITES

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- Any treatment plans which are used directly for patient care, MAY NOT be shown to the Radiation Oncology Physician UNLESS it has been FIRST approved by a qualified physicist or dosimetrist

- All approved dosimetry calculations and treatment plans are to be implemented ONLY under Direct Supervision by a qualified dosimetrist/physicist

The signature below documents that:
- The Clinical Supervisor has reviewed The Direct Supervision Policy with the Medical Dosimetry student as well as all of the Clinical Staff who are involved with the education of Thomas Jefferson’s Medical Dosimetry Students.
- The Direct Supervision Policy sign will be posted in all appropriate areas.

Name: ________________________________ Facility: ________________________________ Date: __________________________

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APPENDIX K

While we have attempted to provide you with a comprehensive departmental handbook, it does not stand alone. Important University-wide policies, including the Code of Conduct and Student Sexual Misconduct Policy, along with information on various University services, can be found on the Thomas Jefferson University Student Handbook website at www.jefferson.edu/handbook. Additionally, important information on the academic policies and procedures within the Jefferson College of Health Professions can be found on the JCHP home webpage.

All Jefferson College of Health Professions (JCHP) & University Policies are found in the JCHP student hand book located at the following link: www.jefferson.edu/handbook

Please note the following is an example of the various policies found at www.jefferson.edu/handbook. Each student will be responsible for maintaining his/her knowledge of the information contained in the Academic Policies and Clinical Education Handbook, as well as the Jefferson College of Health Professions Catalog, and Jefferson College of Health Professions Student Handbook

University Policies

- Campus Violence Policy
- Code of Conduct/Students Rights, Freedoms and Responsibilities
- Confidentiality of Student Records
- Disability Accommodations
- Drug and Alcohol Policy
- Diversity Statement
- Emergency Preparedness
- Flu Vaccination Policy
- Health Insurance Policy
- Occupational Exposure to Blood and Body Fluids
- Peer-To-Peer File Sharing on University Networks
- Policy on Equal Opportunity; Policy Prohibiting Sexual Harassment, Policy on Other Forms Of Harassment; Policy Prohibiting Retaliation
- JEFFAlert Emergency Notification System
- Student Religious Observance Policy
- Required Background Check
- Social Media Policy
- Student Alcohol Policy
- Student Directory
- Student Grievance Procedure
- Student Identification Cards
- Student Sexual Misconduct Policy
- Tobacco Free Environment
- Updated Address Policy
- Use of College’s Name/University Logo
- Weapons Policy
- Weather Emergency Policy