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University of Iowa Health Care
Department of Radiology

Radiation Sciences Education
Nuclear Medicine Technology Education

medicine.uiowa.edu/radsci

Technical Standards

Individuals admitted to a Radiation Sciences or Nuclear Medicine Technology program must possess the capability to complete the entire curriculum and achieve certification. Demonstrated proficiency in a variety of cognitive, problem-solving, manipulative, communicative and interpersonal skills is required. All admitted students must possess the following abilities and to be able to meet all expectations with or without reasonable accommodation. Contact the respective program director with questions regarding the standards or your ability to meet the standards.

Candidates are expected to:

1. Observe and participate in all demonstrations and experiments in the basic sciences, including group and self-learning situations.
2. Learn to analyze, synthesize, solve problems, and reach evaluative judgment.
3. Relate reasonably to patients and establish a sensitive, professional, and effective relationship with them and communicate verbally in an effective manner to direct patients during procedures.
4. Provide physical and emotional support to the patient during the procedures, respond to situations requiring first aid, and provide emergency care to the patient in the absence of, or until the physician arrives.
5. Display judgment in the assessment of patients, learn and demonstrate the ability to recognize limitations in their knowledge, skills, and abilities, and seek appropriate assistance with identified limitations.
6. Learn to respond with precise, quick, and appropriate action in stressful and emergency situations.
7. Possess the ability to work collaboratively with all members of the health care team.
8. Learn and perform routine imaging/therapeutic procedures. Candidates must have the mental and intellectual capacity to calculate and select proper technical exposure factors according to the individual needs of the patient and the requirements of the procedure's standards of speed and accuracy.
9. Accept criticism and adopt appropriate modifications in their behavior.
10. Possess the perseverance, diligence, and consistency to complete the program curriculum and enter into the practice as a certified technologist/sonographer.
11. Possess the ability to directly perform imaging/therapeutic procedures, and review and evaluate the recorded results for the purpose of identifying proper patient positioning, accurate procedural sequencing, proper quality, and other appropriate and pertinent technical qualities.
12. Possess the ability to transport, move, lift, and transfer patients from a wheelchair or cart to an x-ray table or to a patient bed; move, adjust, and manipulate a variety of imaging/therapeutic equipment, including the physical transportation of mobile equipment.

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