SECTION HEADING

RADT 2290: Computed Tomography Basics

Description

Computed Tomography Basics is designed to provide a comprehensive review of Computed Tomography and a step by step method of preparation for successful completion of the American Registry of Radiologic Technologists (ARRT) CT Registry Exam.

Credits

1

Prerequisite

Registered Radiologic Technologist through the American Registry of Radiologic Technologists

Corequisite

None

Topics to be Covered

- 1. Patient Care and Screening
- 2. Contrast Administration and Safety
- 3. Radiation Protection
- 4. Image Formation
- 5. Image Manipulation
- 6. Image Quality Factor
- 7. Procedure protocols for Head, Spine, Musculoskeletal, Neck, Chest, Abdomen and Pelvis

Learning Outcomes

- 1. Gain an overall knowledge of computed tomography
- 2. Understand the patient handling, assessment and monitoring skills required for CT examinations.
- 3. Understand the safety to conduct and monitor the administration of contrast media required for CT imaging techniques.
- 4. Appreciate radiation safety and dose considerations needed to conduct CT examinations safely
- 5. Describe the main components of a CT scanner and their function in the imaging process.
- 6. Understand the operation of a CT scanner and the control of parameters that affect image quality and artifacts
- 7. Understand special patient accommodations
- 8. Basic education on trouble shooting computed tomography equipment
- 9. Interactive lecture
- 10. Group collaboration

Credit Details

Lecture: 1

Lab: 0

OJT: 0

MnTC Goal Area(s): None