



BAKER COLLEGE

STUDENT LEARNING OUTCOMES

RAD2510 CT Basics and Related Anatomy
3 Semester Hours

Student Learning Outcomes and Enabling Objectives

1. Examine Cross Sectional Anatomy and related pathology.
 - a. Provide examples of current practice standards and imaging protocols for diseases of the head, thorax and abdomen.
 - b. Identify Sectional Anatomy on commonly performed procedures of the head, thorax and abdomen.
 - c. Examine the role of contrast agents in studies of the head, thorax and abdomen.
 2. Explore CT Physics and Instrumentation.
 - a. Summarize the different generations of CT including their capabilities and limitations.
 - b. Explain image reconstruction and reformatting.
 - c. Identify the components, operation and processes of a CT scanner.
 - d. Describe the process of data acquisition to image display.
 - e. Describe scan field of view and display field of view.
 3. Describe patient preparation and safety.
 - a. Summarize Radiation Dose minimizing strategies.
 - b. Explain patient preparation necessary for commonly performed CT contrast studies
 - c. List contrast screening factors and contraindications.
 - d. Identify adverse reactions to contrast media.
 - e. Name the type, dosage purpose, and route of contrast administration for common CT procedures.
 - f. Select appropriate technical factors for pediatric patients.
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Big Ideas and Essential Questions

Big Ideas

- Sectional Anatomy
- CT Physics
- Instrumentation
- Dose Concerns

Essential Questions

- Why is it important for all Radiologic Technologists to be familiar with cross-sectional anatomy and its benefits for demonstrating certain pathologies?
- What are the differences in CT scanner “generations”?
- What technological innovations that have helped improve the patient experience and accuracy of disease diagnosis?

- Why is radiation safety such a concern in CT?

These SLOs are not approved for experiential credit.

Effective: Fall 2020