



**BAKER COLLEGE**  
**STUDENT LEARNING OUTCOMES**  
**RDT 4410 Quality Management & Operational Issues in**  
**Radiation Therapy**  
3 Semester Hours

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**Student Learning Outcomes and Enabling Objectives**

1. Evaluate the purpose, functions, and roles of quality management programs.
  - a. Examine outcomes of quality management as they relate to patient care, education and research.
  - b. Examine the purpose and function of manual and electronic records.
  - c. Identify errors and describe the process to assure accuracy of manual and electronic records.
  - d. Examine treatment documents to verify consistency between the treatment plan and treatment prescription.
  - e. Explain the purpose, procedure, and frequency for all QA and QM procedures and their impact on all aspects of radiation therapy.
  - f. Examine computerized statistical reporting for QA and QM.
  - g. Determine the source of malfunction and determine the effect on treatment delivery, education and research.
  - h. Distinguish between safe and hazardous equipment operation and comply with acceptable quality limits for treatment operation.
  - i. Identify the key aspects of delivering a precise prescribed treatment dose to include proper patient identification and documentation of treatment.
  - j. Describe quality control procedures and recommended tolerances for patient care areas to include:
    - i. Simulation
    - ii. Megavoltage
    - iii. Treatment units
    - iv. Treatment planning systems
    - v. Brachytherapy
    - vi. Record and verify systems
  - k. Compare/contrast and apply CQI, QA and the tools used in specific situations.
2. Evaluate operational issues as they relate to radiation therapy.
  - a. Recognize accreditation effects and reporting regulations on radiation therapy operations, to include:
    - i. organizational and departmental
    - ii. federal, state, and institutional
  - b. Examine medical/legal aspects of documentation.
  - c. Examine the role of human resources' in radiation therapy.
  - d. Identify CQI opportunities.
  - e. Demonstrate effective and accurate written and oral communication skills using appropriate terminology for radiation therapy.
3. Examine the impact of billing, reimbursement, and budget to a radiation therapy department.
  - a. Explore the various types of:
    - i. Coding (CPT)

- ii. Insurance
    - iii. Managed care
    - iv. Reimbursement mechanisms
  - b. Compare the components and methods of developing and managing a departmental budget.
4. Examine legal concepts in radiation therapy.
- a. Examine the role of the radiation therapist in the following:
    - i. informed consent process
    - ii. patient rights
    - iii. practice standards
    - iv. clinical evaluation
    - v. therapeutic decision making
  - b. Discuss the legal implications of:
    - i. Communication
    - ii. Documentation and maintenance of clinical records
    - iii. Risk management programs
  - c. Analyze negligent clinical practice issues in radiation therapy.
  - d. Analyze the various sources of law as they apply to social, political, economic, and historical issues.
  - e. List the steps in a civil legal procedure and identify the potential role of the radiation therapist.
  - f. Develop a risk management program to include safety issues.
  - g. Analyze the role of code of ethics, radiation therapy scope of practice and radiation therapy practice standards as guides to assess the appropriateness of professional actions.

**Big Ideas:**

- Quality Management
- Operational Issues
- Financial Considerations
- Legal Concepts

**Essential Questions:**

1. What impact does quality management have on patient care, education, and research in radiation therapy?
2. How do operational issues affect the radiation therapy department?
3. Why are financial considerations such as billing, reimbursement, and budgeting important in radiation therapy?
4. What roles do the law and regulatory agencies play in radiation therapy?

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These SLOs are not approved for experiential credit.

Effective: Fall 2017