

Quality and Safety in Radiation Oncology



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Quality and Safety in Radiation Oncology provides an authoritative and evidence-based guide to the understanding and implementation of quality and safety procedures in radiation oncology practice. A detailed exploration and review of these standards is a necessary part of a radiation oncology professional s competency, both in the clinical setting and at the study table while preparing for board review and MOC exams. This book is also essential for other members of the radiotherapy team, including for medical physicists implementing procedures and working with wide-ranging technologies and equipment and for dosimetrists and radiation therapists tailoring and carrying out safe and effective treatment plans

Chapter topics range from fundamental concepts of value and quality to specific technical consideration in the commissioning and use of equipment to the use of metrics to measure value. Chapters include perspectives on quality and safety from the patient, third-party payers, as well as from the federal government. Other chapters cover prospective testing of quality, training and education, error identification and analysis, incidence reporting, as well as special technology and procedures, including MRI-guided radiation therapy, proton therapy and stereotactic body radiation therapy (SBRT), quality and safety considerations in resource-limited environments, and more.

Physicians, medical physicists, dosimetrists, radiation therapists, nurses, hospital administrators, vendors and other healthcare professionals will find this resource an invaluable compendium of best practices in radiation oncology.

Key Features:

- Case examples illustrate best practices and pitfalls
- Dozens of graphs, tables and figures which help illustrate and quantify the discussion of quality and safety throughout the text
- Section II covers all aspects of quality assurance procedures for the physicist
- Includes examples of checklists to support best practices

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