



Alternate Fractionation in Radiotherapy : Paradigm Change

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- Available Online: View e-Book
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- Responsibility: Mark Trombetta, Jean-Philippe Pignol, Paolo Montemaggi, Luther W. Brady, editors
- Place of Publication: Cham
- Publisher: Springer
- Date of Publication: c2018
- Physical Description: 1 online resource (xii, 413 p.) : 100 illus.
- Series: Medical radiology. Radiation oncology
- Series Title: Medical radiology (Series)
- ISBN: 9783319511986
9783319511979 (print ed.)
9783319511993 (print ed.)
9783030095963 (print ed.)
- Subjects (MeSH): Dose Fractionation, Radiation
Neoplasms - radiotherapy
- Specialty: Pharmacy
Radiotherapy
- Abstract: This book, written by leading international experts, describes alternate fractionation strategies in which technology-driven precise targeting and dosing allow for improved conformance and decreased volumes, with concordant lessening of toxicity, reduction in treatment time, and lower overall health care expense. The aim is to provide the advanced clinician with an up-to-date evidence-based reference that will assist in the delivery of enhanced patient care in daily practice. Traditional multi-week fractionation schedules were established at a time when the inclusion of relatively large amounts of normal tissue was unavoidable owing to the lack of accurate target localization during treatment. Such schedules are time and resource consuming, difficult for patients, and expensive. Nevertheless, acceptance of alternate fractionation strategies has been slow in some countries. The paradigm is, however, changing as evidence accumulates to demonstrate improved local control, equivalence of tolerance, or both. In documenting these alternate strategies, this book will be of value for radiation oncologists, medical physicists, and oncologists worldwide.

Contents: Introduction – The Radiobiological Aspects of Altered Fractionation – Technological Advance Enabling Alternate Fractionation – Workflow and Quality Assurance in Altered Fractionation – The Future of Altered Fractionation – Brachytherapy: The Original Altered Fractionation – Part I. Disease Site Specific Topics – Altered Fractionation in Radiotherapy of CNS Tumors – Head and Neck Cancer – Whole-Breast Hypofractionated Radiotherapy – Accelerated Partial Breast Irradiation - Lung Cancer – Alternate Fractionation for Hepatic Tumors – Stereotactic Body Radiotherapy with Functional Treatment Planning in Hepatocellular Carcinoma – Gastrointestinal Cancer: Pancreas – Hypofractionation in Patients with Rectal Cancer – Hypofractionated Radiotherapy in Genitourinary Cancer: Better with Less – Fractionation Regimens for Gynecologic Malignancies – Skin: The Case for Altered Fractionation in the Treatment of Both Malignant and Benign Conditions – Radiotherapy for Primary and Metastatic Soft Tissue Sarcomas: Altered Fraction Regimens with External Beam and Brachytherapy – Stereotactic Body Radiotherapy – Altered Fraction Radiotherapy in Palliation – Erratum to: The Radiobiological Aspects of Altered Fractionation.

Format: e-Book

Location: Online