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KEY=ONCOLOGY - NELSON BOOKER

GUNDERSON AND TEPPER'S CLINICAL RADIATION ONCOLOGY

Elsevier Health Sciences A comprehensive, multidisciplinary resource for the entire radiation oncology team, *Gunderson & Tepper's Clinical Radiation Oncology, 5th Edition*, thoroughly covers all aspects of this complex and dynamic field. Concise, templated chapters cover the basic biology of oncologic disease processes as well as updated treatment algorithms, the latest clinical guidelines, and state-of-the-art techniques and modalities. More than 1,000 images—detailed anatomy drawings, radiographic images, and more—provide outstanding visual support for every area of the text. Divides content into three distinct sections for quick access to information: *Scientific Foundations, Techniques and Modalities, and Disease Sites*. Disease Site chapters include overviews summarizing the most important issues and concluding discussions on controversies and problems. Features new and expanded content on molecular and cellular biology and its relevance in individualized treatment approaches, stereotactic radiation therapy, radiosurgery, proton therapy, biologic therapy, precision radiation therapy, targeted radiation, dosing guidelines for better quality of life and improved patient outcomes, and more. Includes new chapters on *Radiation Physics: Particle Therapy, Interventional Radiology, Radiation Therapy in the Elderly, Palliative Care, Quality and Safety, and Immunotherapy with Radiotherapy*. Provides guidance on single-modality and combined-modality approaches, as well as outcome data including disease control, survival, and treatment tolerance. Includes access to videos on *Intraoperative Irradiation, Prostate Brachytherapy, Penile Brachytherapy, and Ocular Melanoma*. Expert Consult eBook version included with purchase. This enhanced eBook experience allows you to search all of the text, figures, and references from the book on a variety of devices.

PRACTICAL RADIATION ONCOLOGY PHYSICS

A COMPANION TO GUNDERSON & TEPPER'S CLINICAL RADIATION ONCOLOGY

Elsevier Health Sciences Perfect for radiation oncologists, medical physicists, and residents in both fields, *Practical Radiation Oncology Physics* provides a concise and practical summary of the current practice standards in therapeutic medical physics. A companion to the fourth edition of *Clinical Radiation Oncology*, by Drs. Leonard Gunderson and Joel Tepper, this indispensable guide helps you ensure a current, state-of-the-art clinical practice. Covers key topics such as relative and in-vivo dosimetry, imaging and clinical imaging, stereotactic body radiation therapy, and brachytherapy. Describes technical aspects a.

CLINICAL RADIATION ONCOLOGY

Elsevier Health Sciences Radiation oncology for physicians and residents needing a multidisciplinary, treatment-focused resource; this updated edition provides the latest knowledge in this consistently growing field. You will broaden your understanding of the basic biology of disease processes, and access updated treatment algorithms, information on techniques, and state-of-the-art modalities.

GUNDERSON & TEPPER'S CLINICAL RADIATION ONCOLOGY, E-BOOK

Elsevier Health Sciences A comprehensive, multidisciplinary resource for the entire radiation oncology team, *Gunderson & Tepper's Clinical Radiation Oncology, 5th Edition*, thoroughly covers all aspects of this complex and dynamic field. Concise, templated chapters cover the basic biology of oncologic disease processes as well as updated treatment algorithms, the latest clinical guidelines, and state-of-the-art techniques and modalities. More than 1,000 images—detailed anatomy drawings, radiographic images, and more—provide outstanding visual support for every area of the text. Divides content into three distinct sections for quick access to information: *Scientific Foundations, Techniques and Modalities, and Disease Sites*. Disease Site chapters include overviews summarizing the most important issues and concluding discussions on controversies and problems. Features new and expanded content on molecular and cellular biology and its relevance in individualized treatment approaches, stereotactic radiation therapy, radiosurgery, proton therapy, biologic therapy, precision radiation therapy, targeted radiation, dosing guidelines for better quality of life and improved patient outcomes, and more. Includes new chapters on *Radiation Physics: Particle Therapy, Interventional Radiology, Radiation Therapy in the Elderly, Palliative Care, Quality and Safety, and Immunotherapy with Radiotherapy*. Provides guidance on single-modality and combined-modality approaches, as well as outcome data including disease control, survival, and treatment tolerance. Includes access to videos on *Intraoperative Irradiation, Prostate Brachytherapy, Penile Brachytherapy, and Ocular Melanoma*.

GUNDERSON & TEPPER'S CLINICAL RADIATION ONCOLOGY

ESSENTIALS OF CLINICAL RADIATION ONCOLOGY, SECOND EDITION

Springer Publishing Company Updated and expanded, this Second Edition of *Essentials of Clinical Radiation Oncology* continues to provide a succinct and effective review of the most important studies in the field. Organized by disease topic and grouped by body part, each chapter employs structured sections for targeted information retrieval and retention. Chapters begin with a "Quick Hit" overview of each disease summarizing the most significant paradigms before moving into dedicated summaries on epidemiology, risk factors, anatomy, pathology, genetics, screening, clinical presentation, workup, prognostic factors, staging, treatment paradigm, and medical management. An evidence-based question-and-answer section concludes each chapter, which pairs commonly encountered clinical questions with answers connecting historical context and pertinent clinical studies to better inform decision-making and treatment planning. Providing the latest treatment paradigms and guidelines, this comprehensive second edition now outlines the evidence and must-know considerations for using radiation therapy with immunotherapy, the strategies for metastasis-directed therapy for oligometastatic disease, and much more. Written for the practicing radiation oncologist, related practitioner, and radiation oncology resident entering the field, this "one-stop" resource is the go-to reference for everyday practice. Key Features: Structured sections offer high-yield information for targeted review Cites need-to-know clinical studies and treatment guidelines in evidence-based question-and-answer format Each chapter has been reviewed and updated to include the most recent and relevant studies New chapters on spine tumors, thyroid cancer, sinonasal tumors, cholangiocarcinoma, renal cell carcinoma, multiple myeloma and plasmacytoma, miscellaneous pediatric tumors, and treatment of oligometastatic disease from underlying cancers Designed for quick reference with comprehensive tables on treatment options and patient selection, workup, and prognostic factors by disease site Purchase includes digital access for use on most mobile devices or computers

CLINICAL RADIATION ONCOLOGY

INDICATIONS, TECHNIQUES, AND RESULTS

Wiley-Blackwell This updated edition of *Clinical Radiation Oncology* provides a comprehensive overview of the biological basis of radiation oncology and the clinical efficacy of radiation therapy. Featuring contributions from renowned specialists and prepared by "an editor well known for his skilled and no-nonsense methods of dealing with the various types of major organ cancers," *Clinical Radiation Oncology, Second Edition* presents clinically relevant information in a user-friendly format. Thoroughly revised and extensively illustrated, the book features individual chapters on such topics as: * Radiation biology for oncologists * Physical aspects of radiation oncology * Cancer of the skin * Head and neck cancer * Breast cancer * Gynecologic malignancies * Central nervous system tumors * Lymphomas * Pediatric tumors *Clinical Radiation Oncology, Second Edition* is an invaluable reference for radiation oncologists, oncologic surgeons, medical oncologists, and residents. Of related interest . . . *Radiation Therapy for Head and Neck Neoplasms Third Edition* C. C. Wang, M.D. Highlights recent developments concerning treatment techniques, use of modalities, and the management of early and advanced tumors.

HANDBOOK OF TREATMENT PLANNING, 2ND ED

Demos Medical Publishing " This is a highly practical resource about the specific technical aspects of delivering radiation treatment. Pocket-sized and well organized for ease of use, the book is designed to lead radiation oncology trainees and residents step by step through the basics of radiotherapy planning and delivery for all major malignancies. This new, evidence-based edition retains the valued, practical features of the first edition while incorporating recent advances in the field. Chapters are the result of a joint collaboration between residents and staff radiation oncologists in the Department of Radiation Oncology at the Cleveland Clinic. Sections are organized by body site or system whichever is best suited to consistency in presenting planning principles. Also included are such specialized topics as palliative therapy and pediatrics. More than 200 images help to clarify the steps of radiotherapy planning and delivery. Written by and for residents on the "front lines" of their training, it is also a valuable resource for training other professionals in the field such as technologists, nurses, dosimetrists, and others as well as a quick reference for practicing physicians. Key Features of *Handbook of Treatment Planning in Radiation Oncology, Second Edition*: Provides a consistent, step-by-step approach to effective radiotherapy planning and delivery Presents content in consistent, concise, bulleted format for easy review Includes over 200 color images Explains specific technical aspects of delivering radiation treatment Addresses such specialized topics as palliative therapy and pediatrics New to the Second Edition: Stereotactic body radiation therapy (SBRT) for prostate and GI tumors Intraoperative therapy for GI tumors Volumetric modulated arc therapy (VMAT) for brain tumors New coverage of MRI based planning in simulation "

PRIMER ON RADIATION ONCOLOGY PHYSICS

VIDEO TUTORIALS WITH TEXTBOOK AND PROBLEMS

CRC Press Gain mastery over the fundamentals of radiation oncology physics! This package gives you over 60 tutorial videos (each 15-20 minutes in length) with a companion text, providing the most complete and effective introduction available. Dr. Ford has tested this approach in formal instruction for years with outstanding results. The text includes extensive problem sets for each chapter. The videos include embedded quizzes and "whiteboard" screen technology to facilitate comprehension. Together, this provides a valuable learning tool both for training purposes and as a refresher for those in practice. Key Features A complete learning package for radiation oncology physics, including a full series of video tutorials with an associated textbook companion website Clearly drawn, simple illustrations throughout the videos and text Embedded quiz feature in the video tutorials for testing comprehension while viewing Each chapter includes problem sets (solutions available to educators)

RADIATION ONCOLOGY PHYSICS

A HANDBOOK FOR TEACHERS AND STUDENTS

IAEA This publication is aimed at students and teachers involved in teaching programmes in field of medical radiation physics, and it covers the basic medical physics knowledge required in the form of a syllabus for modern radiation oncology. The information will be useful to those preparing for professional certification exams in radiation oncology, medical physics, dosimetry or radiotherapy technology.

POWER GRID COMPLEXITY

Springer Science & Business Media "Power Grid Complexity" introduces the complex system theory known as self-organized criticality (SOC) theory and complex network theory, and their applications to power systems. It studies the network characteristics of power systems, such as their small-world properties, structural vulnerability, decomposition and coordination strategies, and simplification and equivalence methods. The book also establishes four blackout models based on SOC theory through which the SOC of power systems is studied at both the macroscopic and microscopic levels. Additionally, applications of complex system theory in power system planning and emergency management platforms are also discussed in depth. This book can serve as a useful reference for engineers and researchers working with power systems. Shengwei Mei is a Professor at the Department of Electrical Engineering at Tsinghua University, China. Xuemin Zhang is a Lecturer at the Department of Electrical Engineering at Tsinghua University, China. Ming Cao is an Assistant Professor at the Faculty of Mathematics and Natural Sciences at the University of Groningen, the Netherlands.

TARGET VOLUME DELINEATION FOR CONFORMAL AND INTENSITY-MODULATED RADIATION THERAPY

Springer This textbook is designed to help the busy radiation oncologist to accurately and confidently delineate tumor volumes for conformal radiation therapy (including IMRT). The book provides an atlas of clinical target volumes (CTVs) for commonly encountered cancers, with each chapter illustrating CTV delineation on a slice-by-slice basis, on planning CT images. Common anatomic variants for each tumor are represented in individual illustrations, with annotations highlighting differences in coverage. The anatomy of each site and patterns of lymphatic drainage are discussed, and their influence on the design of CTVs is explained in detail. Utilization of other imaging modalities, including MRI, to delineate volumes is highlighted. Key details of simulation and planning are briefly reviewed. Although the emphasis is on target volume delineation for conformal techniques, information is also provided on conventional radiation field setup and design when IMRT is not suitable.

CAREER DEVELOPMENT IN ACADEMIC RADIATION ONCOLOGY

Springer Nature This book offers comprehensive career development advice for professionals in radiation oncology. While numerous texts have been published to advise medical students on entry into the specialty, and to guide residents and junior faculty with exam preparation, there remains a need for a comprehensive resource that covers topics pertinent to a successful career within radiation oncology. This text has been edited and written by leading experts in the field, and offers multiple unique vantage points. This work is divided into five sections covering career planning, applying to faculty positions, early career development, mid and senior career considerations, and contextual issues. Throughout the text, authors balance "nuts and bolts" (e.g., preparing your CV and evaluating a contract) with big picture considerations. Each chapter is written concisely, yet comprehensively, from the vantage point of a mentor advising a mentee; questions to review with local mentors and additional reading suggestions are also provided. Issues of workforce disparities, conscious and unconscious bias, work-life equilibrium, and interpersonal conflict, and how these may impact one's career path, are also closely addressed. While the work is primarily targeted to those pursuing career paths within academic medicine, there is also distinct value and tailored content for trainees and radiation oncologists practicing in hospital-based, hybrid or community settings. In a period of rapid change in the healthcare sector and cancer care more specifically, this book will serve as the premier reference for those pursuing an independent career in radiation oncology.

PROTON THERAPY PHYSICS

CRC Press Proton Therapy Physics goes beyond current books on proton therapy to provide an in-depth overview of the physics aspects of this radiation therapy modality, eliminating the need to dig through information scattered in the medical physics literature. After tracing the history of proton therapy, the book summarizes the atomic and nuclear physics background necessary for understanding proton interactions with tissue. It describes the physics of proton accelerators, the parameters of clinical proton beams, and the mechanisms to generate a conformal dose distribution in a patient. The text then covers detector systems and measuring techniques for reference dosimetry, outlines basic quality assurance and commissioning guidelines, and gives examples of Monte Carlo simulations in proton therapy. The book moves on to discussions of treatment planning for single- and multiple-field uniform doses, dose calculation concepts and algorithms, and precision and uncertainties for nonmoving and moving targets. It also examines computerized treatment plan optimization, methods for in vivo dose or beam range verification, the safety of patients and operating personnel, and the biological implications of using protons from a physics perspective. The final chapter illustrates the use of risk models for common tissue complications in treatment optimization. Along with exploring quality assurance issues and biological considerations, this practical guide collects the latest clinical studies on the use of protons in treatment planning and radiation monitoring. Suitable for both newcomers in medical physics and more seasoned specialists in radiation oncology, the book helps readers understand the uncertainties and limitations of precisely shaped dose distribution.

ESSENTIALS OF CLINICAL RADIATION ONCOLOGY

Springer Publishing Company Essentials of Clinical Radiation Oncology is a comprehensive, user-friendly clinical review that summarizes up-to-date cancer care in an easy-to-read format. Each chapter is structured for straightforward navigability and information retention beginning with a "quick-hit" summary that contains an overview of each disease, its natural history, and general treatment options. Following each "quick-hit" are high-yield summaries covering epidemiology, risk factors, anatomy, pathology, genetics, screening, clinical presentation, workup, prognostic factors, staging, treatment paradigms, and medical management for each malignancy. Each treatment paradigm section describes the current standard of care for radiation therapy including indications, dose constraints, and side effects. Chapters conclude with an evidence-based question and answer section which summarizes practice-changing data to answer key information associated with radiation treatment outcomes. Flow diagrams and tables consolidate information throughout the book that all radiation oncologists and related practitioners will find extremely useful when approaching treatment planning and clinical care. Essentials of Clinical Radiation Oncology has been designed to replicate a "house manual" created and used by residents in training and is a "one-stop" resource for practicing radiation oncologists, related practitioners, and radiation oncology residents entering the field. Key Features: Offers digestible information as a learning guide for general practice Examines essential clinical questions which are answered with evidence-based data from important clinical studies Places clinical trials and data into historical context and points out relevance in current practice Provides quick reference tables on treatment options and patient selection, workup, and prognostic factors by disease site

POCKET RADIATION ONCOLOGY

Lippincott Williams & Wilkins Pocket Radiation Oncology is a practical, high-yield reference offering current, evidence-based practices and expert guidance from physicians at the world-renowned MD Anderson Cancer Center. Featuring an easy-to-use, loose-leaf format, it serves as a concise clinical companion and board study guide for medical students, residents, and attending physicians in radiation oncology.

PEDIATRIC RADIATION ONCOLOGY

Lippincott Williams & Wilkins Established since 1986 as the definitive text and reference on use of radiation therapy for childhood cancer, Pediatric Radiation Oncology is now in its thoroughly revised and updated Fifth Edition. This edition reviews all significant recent clinical trials—including, for the first time, significant European clinical trials—and provides increased coverage of international and Third World issues. The latest cancer staging guidelines are included. New chapters cover psychosocial aspects of radiotherapy for the child and family and medical management of pain, nausea, nutritional problems, and blood count depression in the child with cancer. This edition also has full-color illustrations throughout. A companion website includes the full text and an image bank.

PRACTICAL RADIATION ONCOLOGY

Springer Nature This book addresses the most relevant aspects of radiation oncology in terms of technical integrity, dose parameters, machine and software specifications, as well as regulatory requirements. Radiation oncology is a unique field that combines physics and biology. As a result, it has not only a clinical aspect, but also a physics aspect and biology aspect, all three of which are inter-related and critical to optimal radiation treatment planning. In addition, radiation oncology involves a host of machines/software. One needs to have a firm command of these machines and their specifications to deliver comprehensive treatment. However, this information is not readily available, which poses serious challenges for students learning the planning aspect of radiation therapy. In response, this book compiles these relevant aspects in a single source. Radiation oncology is a dynamic field, and is continuously evolving. However, tracking down the latest findings is both difficult and time-consuming. Consequently, the book also comprehensively covers the most important trials. Offering an essential ready reference work, it represents a value asset for all radiation oncology practitioners, trainees and students.

POCKET GUIDE TO RADIATION ONCOLOGY

Springer Publishing Company Pocket Guide to Radiation Oncology is an efficient, no-frills guide to the basics of clinical radiation oncology. The chapters are packed with clinical pearls and tables covering treatment options, doses, side effects, target delineations, treatment planning, and other essentials. Chapters are organized by site-specific disease. Each chapter presents the must-know key points, including treatment options by stage, relevant technical considerations, and important items for follow-ups. This crucial material makes the book an ideal companion for the practicing physician during rounds and other clinical settings. The book's organized format also lends itself to quick review for the board or MOC exams, and it can serve as a handy reference during a case review at a tumor board. Key Features: The outline format and wealth of succinct tables make this a great quick reference Each chapter concludes with a list of selected, summarized studies relevant to the disease 51 disease-based chapters make it easy to find particular sites without having to sift through dense, broad text Supplemental sections at the end of the book provide quick access to normal tissue tolerance

constraints as well as recommendations for managing symptoms after radiation therapy

ABSOLUTE CLINICAL RADIATION ONCOLOGY REVIEW

Springer This book provides a quick reference guide for clinicians in radiation oncology. It is designed to be an intuitive and easily reviewed study guide for board or maintenance of certification examinations, as well as a quick reference for residents and established radiation oncologists who need a refresher. The text begins with a general pearls chapter that radiation oncologists should consider in all aspects of their practice, including cancer visibility, dosing, counseling recommendations, and toxicity management. The subsequent chapters then delve into different cancer disease sites, including pediatrics, central nervous system, head and neck, thoracic, breast, gastrointestinal, gynecologic, genitourinary, hematologic, soft tissue, palliative, and radiophysics/radiobiology. Within each chapter, each disease and its recommended approach is then summarized in only a few pages, allowing a focus on the most essential information. Bullet points, figures, tables, and images make for an intuitive reader experience. Recommendations are taken from the American Society for Radiation Oncology (ASTRO), the European Society for Radiation Oncology (ESTRO), and the National Comprehensive Cancer Network (NCCN). Planning guides for imaging, diagnosis, and staging offer readers a starting point in approaching each patient based on disease origin, and dosing guidelines then detail consideration for treatment methods. Each chapter additionally includes disease-specific pearls and key points to test the knowledge reviewed in the chapters. Experts in the disease sites from the United States serve as senior authors on each chapter. The authors include all diseases associated with radiation oncology training to ensure a comprehensive resource for exam studying and clinical care. Residents, trainees, and established radiation oncologists find this an ideal study resource for both board and certification exams, as well as an easily accessible aid during practice.

PRINCIPLES AND PRACTICE OF RADIATION ONCOLOGY

The Fourth Edition of this landmark work features nine new chapters and has been thoroughly revised and updated to reflect contemporary findings. It is the only text that covers every important aspect of radiation oncology—from basic cancer biology, radiation biology, and radiation therapy physics to state-of-the-art treatment regimens for all cancer sites and tumor types and discussions of results. Principles and Practice of Radiation Oncology is designed to provide a better understanding of the natural history of cancer, the physical methods of radiation application, the effects of irradiation on normal tissues, and the most judicious ways in which radiation therapy can be employed in the treatment of cancer patients. This encyclopedic text places greater emphasis on the use of radiation oncology in palliative and supportive care, in addition to therapy. Included in the new edition: chapters on molecular biology and physiology, technology assessment and cost benefit, combined chemotherapy and irradiation in head and neck cancer, breast: stage Tis, pancreas, leukemias (adult and childhood), retinoblastoma, unusual tumors in childhood, and endovascular brachytherapy. This edition also features expanded coverage of new 3-D techniques and IMRT and a greater emphasis on pediatric concerns.

CLINICAL RADIATION ONCOLOGY

INDICATIONS, TECHNIQUES, AND RESULTS

John Wiley & Sons This fully updated and enhanced third edition of the famous radiation oncology title, *Clinical Radiation Oncology*, previously edited by the legendary Dr. Chiu-Chen Wang, continues to offer a highly practical, application-based review of the biological basis of radiation oncology and the clinical efficacy of radiation therapy. The new edition provides concise background on all key topics along with immediately applicable treatment algorithms, and addresses the latest developments in the field, including intensity modulated radiation therapy (IMRT), image guided radiation therapy, and palliative radiotherapy.

ANTERIOR SKULL BASE TUMORS

Karger Medical and Scientific Publishers In recent years, interest in the management of anterior skull base tumors has been fostered by the introduction and subsequent rapid expansion of indications of transnasal endoscopic techniques. In parallel, extraordinary progress has been made in all the other disciplines which are involved in the complex process of managing anterior skull base tumors, leading to substantial improvements in diagnosis and treatment. The anterior skull base can be involved in a large variety of tumors of a varying nature and histology, which in the majority of cases originate from adjacent anatomic sites. In fact, primary lesions of the anterior skull base mainly include osteoma and other tumors originating from bone and cartilage. Tumors involving the anterior skull base have their origin prevalently in the sinonasal tract, but lesions developing on the intracranial site, such as meningiomas, may also extend caudally to encroach upon this area. All these lesions are rare, which means that the pertinent literature does not include prospective studies or treatment guidelines based on a high level of evidence. In view of the extreme histological variability of lesions involving the anterior skull base, much emphasis has been placed on addressing the different nuances of treatment in relation to histology, especially for malignant tumors. The chapters focusing on surgery provide divergent views on selection criteria for a specific surgical technique, which is the aim of this publication.

RADIATION ONCOLOGY - A QUESTION BASED REVIEW

Lippincott Williams & Wilkins Designed to serve as a comprehensive active learning tool for medical students, residents, and junior attending physicians, *Radiation Oncology: A Question-Based Review* is geared toward helping professionals quickly and efficiently review a specific topic in clinical radiation oncology. Organized into sections by system and with over 90 chapters covering all the sites and conditions for which radiation is used clinically. This publication covers in detail all the sites and cancer types currently treated with radiotherapy with an emphasis on treatment recommendations and the evidence behind them. Additionally, detailed questions are included on the natural history, epidemiology, diagnosis, staging, and treatment-related side effects for each cancer type.

HANDBOOK OF EVIDENCE-BASED RADIATION ONCOLOGY

Springer Science & Business Media Building on the success of this book's first edition, Dr. Eric Hansen and Dr. Mack Roach have updated, revised, and expanded the *Handbook of Evidence-based Radiation Oncology*, a portable reference that utilizes evidence-based medicine as the basis for practical treatment recommendations and guidelines. Organized by body site, concise clinical chapters provide easy access to critical information. Important "pearls" of epidemiology, anatomy, pathology, and clinical presentation are highlighted. Key facets of the work-up are listed, followed by staging and/or risk classification systems. Treatment recommendations are discussed based on stage, histology, and/or risk classification. Brief summaries of key trials and studies provide rationale for the recommendations. Practical guidelines for radiation techniques are described. Finally, complications and follow-up guidelines are outlined. Updates from the first edition include brand new color figures and color contouring mini-atlases for head and neck, gastrointestinal, prostate, and gynecological tumors; redesigned tables for increased readability; new chapters on management of the neck and unknown primary, clinical radiobiology, and pediatric malignancies and benign conditions; and new appendices including the American College of Radiology guidelines for administration of IV contrast.

CLINICAL RADIATION ONCOLOGY

Elsevier Health Sciences First Prize winner, *Oncology Book Category*, British Medical Association 2012 Medical Book Competition Deepen your knowledge with a comprehensive, clinical approach to the scientific foundations of radiation oncology and general oncology as well as state-of-the-art techniques and modalities. Implement a multidisciplinary, "team care" approach to providing intricate treatment plans for patients, often in conjunction with medical oncologists, and surgeons. Broaden your understanding of the basic biology of the disease processes. Examine the therapeutic management of specific disease sites based on single-modality and combined-modality approaches. Quickly and easily find critical information thanks to an easily accessible, full-color design with over 800 color figures that clearly depict treatment techniques. Get broad multimodality perspectives and unique insights from a diverse team of respected editors and contributors -many of whom are new to this edition - affiliated with institutions across North America and internationally Access the fully searchable text anywhere, anytime at www.expertconsult.com, along with references, additional images and tables, video clips and more! Stay current with comprehensive updates throughout that include a new chapter on survivorship issues, and additional video clips on treatments such as prostate and penile cancer brachytherapy. Improve outcomes by providing the most effective treatment for each patient with expanded coverage of new modalities and treatment regimens. Understand and comply with the latest staging guidelines. Drs. Gunderson and Tepper give you quick access to all the clinical tools you need to master the newest techniques and modalities in radiation oncology.

THERMORADIOTHERAPY AND THERMOCHEMOTHERAPY

BIOLOGY, PHYSIOLOGY, PHYSICS

Springer Science & Business Media Hyperthermia has been found to be of great benefit in combination with radiation therapy or chemotherapy in the management of patients with difficult and complicated tumor problems. It has been demonstrated to increase the efficacy, of ionising radiation when used locally but also has been of help in combination with systemic chemotherapy where hyperthermia is carried out to the total body. Problems remain with regard to maximizing the effects of hyperthermia as influenced by blood flow, heat loss, etc. The present volume defines the current knowledge relative to hyperthermia with radiation therapy and/or chemotherapy, giving a comprehensive overview of its use in cancer management. Philadelphia/Hamburg, June 1995 L.W. BRADY H.-P. HEILMANN Preface In an attempt to overcome tumor resistance, hypoxia, or unfavorable tumor conditions, oncological research has come to focus on gene therapy, immunotherapy, new cytotoxic agents, and increasingly sophisticated radiotherapy. Radiation research has been directed towards heavy particle therapy and modification of the radiation response by either protecting or sensitizing agents. Improved dose localization using rotational or conformal strategies has also been implemented. Recently, changes in radiation fractionation schedules have shown promise of better results. Hyperthermia in cancer therapy can be viewed similarly as another means to increase the sensitivity of tumors to radio- and chemotherapy.

CLINICAL RADIATION ONCOLOGY E-BOOK

Elsevier Health Sciences With thorough updates throughout, *Clinical Radiation Oncology* provides the most comprehensive, authoritative, and up-to-date information available for treating patients with cancer. From a multidisciplinary perspective, this new edition, edited by Drs. Leonard L. Gunderson and Joel E. Tepper, examines the therapeutic management of specific disease sites based on both single-modality and combined-modality approaches - providing you with the well-rounded, cutting-edge guidance you need to offer the most effective treatments. A consistent chapter format, full-color design, and access to the full text at www.expertconsult.com make reference fast and easy. It is an ideal resource for mastering the latest, most effective techniques and modalities! Deepen your knowledge with a comprehensive, clinical approach to the scientific foundations of radiation oncology and general oncology as well as state-of-the-art techniques and modalities. Implement a multidisciplinary, "team care" approach to providing intricate treatment plans for patients, often in conjunction with medical oncologists, and surgeons. Broaden your understanding of the basic biology of the disease processes. Examine the therapeutic management of specific disease sites based on single-modality and combined-modality approaches. Quickly and easily find critical information thanks to an easily accessible, full-color design with over 800 color figures that clearly depict treatment techniques. Get broad multimodality perspectives and unique insights from a diverse team of respected editors and contributors -many of whom are new to this edition - affiliated with institutions across North America and internationally Access the fully searchable text anywhere, anytime at www.expertconsult.com, along with references, additional images and tables, video clips and more! Stay current with comprehensive updates throughout that include a new chapter on survivorship issues, and additional video clips on treatments such as prostate and penile cancer brachytherapy. Improve outcomes by providing the most effective treatment for each patient with expanded coverage of new

modalities and treatment regimens. Understand and comply with the latest staging guidelines.

RADIATION ONCOLOGY STUDY GUIDE

Springer Nature Now in its second edition, this popular text remains a comprehensive study and review aid for the radiation oncology trainee and practicing radiation oncologist. The updated Radiation Oncology Study Guide, 2e maintains its robust Q&A format, and has been comprehensively updated to include the latest staging information and treatment methods. Answer rationales have been modified to a more readable, high yield bulleted format. Each chapter covers a major disease site and is divided into two main parts: Questions & Answers and Rationale. Questions review the scope of clinical practice, spanning from initial presentation to complications of treatment. General content and work-up questions emphasize "pearls" of epidemiology, anatomy, pathology, clinical presentation, and staging. Treatment content questions not only review evidence-based data guiding treatment recommendations, but also practical aspects of radiation treatment planning, pertinent radiobiology and physics, and complications of treatment. This book is an ideal resource for physicians-in-training to prepare for initial written and oral exams and physicians in practice to maintain their skills and prepare for maintenance of certification longitudinal and written exams.

RECTAL CANCER TREATMENT

Springer Science & Business Media Rectal cancer is one of the most prevalent cancers world-wide. It is also a paradigm for multimodal management, as the combination of surgery, chemotherapy and radiotherapy is often necessary to achieve the optimal outcome. Recently, international experts met in Heidelberg, Germany to discuss the latest developments in the management of rectal cancer, including the anatomic and pathologic basis, staging tools, surgical concepts including fast-track surgery and laparoscopic resection, functional outcome after surgery and the role of radio- and chemotherapy. This monograph summarizes this meeting and gives an extensive overview of the current concepts in management of rectal cancer.

TARGET VOLUME DELINEATION FOR PEDIATRIC CANCERS

Springer This handbook is designed to provide the radiation oncologist with clear practical guidance in the delineation of tumor volumes and/or radiation fields for a wide variety of pediatric cancers, including the most frequently encountered malignancies of childhood. This is a guide to designing treatment fields and volumes that may be utilized in the delivery of conformal therapies such as intensity-modulated radiation therapy and proton therapy, the latter being particularly relevant in children. Each chapter focuses on a specific tumor type, providing general guidelines that will assist the reader in delineating the clinical target volume for particular presentations, including patterns of spread. As the target volumes can be complex, detailed illustrations are presented of the volumes in representative cases, contoured slice by slice on the planning CT images. In addition to target volume delineation for conformal treatment, field design setup for conventional approaches is also discussed.

EVOLUTION OF RADIATION ONCOLOGY AT MASSACHUSETTS GENERAL HOSPITAL

Springer Science & Business Media The Massachusetts General Hospital (MGH) has a history of excellence and is internationally recognized as a world class medical center, providing quality medical care, advancing medicine through clinical and laboratory research and facilitating the education of exceptional health care professionals. The Massachusetts General Hospital Radiation Oncology Department, staff, residents and fellows, past and present, concur that MGH stands for Man's Greatest Hospital. This decidedly immodest assessment is widely viewed amongst this group as being manifestly true, and that perception is clearly reflected in a marvelous esprit de corp. Such an unequivocally positive attitude is solidly based on the judgment that the best possible care is provided to each MGH patient, i.e. the patient is, in fact, Number One. There is a deep sense of pride in the contributions made by this department to the scientific advancement of oncology, and to progressively and substantially increasing the proportion of patients who are free of tumor and of treatment related morbidity. Evolution of Radiation of Oncology at Massachusetts General Hospital is the work of the former Chair of the Department, Herman D. Suit. From 1970 - 2000, his guidance and management of this Department brought it to recognition as a world class center. Dr. Suit was key in the development and building of the Department that now includes The Northeast Proton Therapy Center at the MGH. His passion for the science of radiation therapy and its evolving growth through the years is evident in this book. He has assembled a fascinating chronicle, beginning with the creation of MGH in 1811 followed by personal experiences that culminated with his leadership of the Radiation Oncology Department.

ABELOFF'S CLINICAL ONCOLOGY E-BOOK

Elsevier Health Sciences Carrying on the tradition established by its founding editor, the late Dr. Martin Abeloff, the 4th Edition of this respected reference synthesizes all of the latest oncology knowledge in one practical, clinically focused, easy-to-use volume. It incorporates basic science, pathology, diagnosis, management, outcomes, rehabilitation, and prevention - all in one convenient resource - equipping you to overcome your toughest clinical challenges. What's more, you can access the complete contents of this Expert Consult title online, and tap into its unparalleled guidance wherever and whenever you need it most! Equips you to select the most appropriate tests and imaging studies for diagnosing and staging each type of cancer, and manage your patients most effectively using all of the latest techniques and approaches. Explores all of the latest scientific discoveries' implications for cancer diagnosis and management. Employs a multidisciplinary approach - with contributions from pathologists, radiation oncologists, medical oncologists, and surgical oncologists - for well-rounded perspectives on the problems you face. Offers a user-friendly layout with a consistent chapter format • summary boxes • a full-color design • and more than 1,445 illustrations (1,200 in full color), to make reference easy and efficient. Offers access to the book's complete contents online - fully searchable - from anyplace with an Internet connection. Presents discussions on cutting-edge new topics including nanotechnology, functional imaging, signal transduction inhibitors, hormone modulators, complications of transplantation, and much more. Includes an expanded color art program that highlights key points, illustrates relevant science and clinical problems, and enhances your understanding of complex concepts.

LEIBEL AND PHILLIPS TEXTBOOK OF RADIATION ONCOLOGY - E-BOOK

EXPERT CONSULT

Elsevier Health Sciences Stay on top of the latest scientific and therapeutic advances with the new edition of Leibel and Phillips Textbook of Radiation Oncology. Dr. Theodore L. Phillips, in collaboration with two new authors, Drs. Richard Hoppe and Mack Roach, offers a multidisciplinary look at the presentation of uniform treatment philosophies for cancer patients emphasizing the "treat for cure" philosophy. You can also explore the implementation of new imaging techniques to locate and treat tumors, new molecularly targeted therapies, and new types of treatment delivery. Supplement your reading with online access to the complete contents of the book, a downloadable image library, and more at expertconsult.com. Gather step-by-step techniques for assessing and implementing radiotherapeutic options with this comprehensive, full-color, clinically oriented text. Review the basic principles behind the selection and application of radiation as a treatment modality, including radiobiology, radiation physics, immobilization and simulation, high dose rate, and more. Use new imaging techniques to anatomically locate tumors before and during treatment. Apply multidisciplinary treatments with advice from experts in medical, surgical, and radiation oncology. Explore new treatment options such as proton therapy, which can facilitate precise tumor-targeting and reduce damage to healthy tissue and organs. Stay on the edge of technology with new chapters on IGRT, DNA damage and repair, and molecularly targeted therapies.

RADIATION SAFETY IN RADIATION ONCOLOGY

CRC Press The proposed book aims to explain the basic principles, concepts and regulations behind radiation protection and their application in the field of radiation oncology practice. This book will be useful to all those students, teachers and practicing professionals involved in the field of radiation oncology.

ONCOLOGIC IMAGING

A MULTIDISCIPLINARY APPROACH

Saunders Consult with Dr. Paul M. Silverman and more than 100 other experts from MD Anderson Cancer Center provide you with today's most dependable answers on every aspect of the diagnosis, treatment, and management of the cancer patient. Recognize the characteristic presentation of each cancer via current imaging modalities and understand the clinical implications of your findings. Effectively use traditional imaging modalities such as Multidetector CT (MDCT), PET/CT, and MR in conjunction with the latest advances in molecular oncology and targeted therapies. Find information quickly and easily thanks to a consistent, highly templated format complete with "Key Point" summaries, algorithms, drawings, and full-color staging diagrams.

TARGETED RADIONUCLIDE THERAPY

Lippincott Williams & Wilkins Radioimmunotherapy, also known as systemic targeted radiation therapy, uses antibodies, antibody fragments, or compounds as carriers to guide radiation to the targets. It is a topic rapidly increasing in importance and success in treatment of cancer patients. This book represents a comprehensive amalgamation of the radiation physics, chemistry, radiobiology, tumor models, and clinical data for targeted radionuclide therapy. It outlines the current challenges and provides a glimpse at future directions. With significant advances in cell biology and molecular engineering, many targeting constructs are now available that will safely deliver these highly cytotoxic radionuclides in a targeted fashion. A companion website includes the full text and an image bank.

HYPOFRACTIONATED AND STEREOTACTIC RADIATION THERAPY

A PRACTICAL GUIDE

Springer This handbook summarizes the data and techniques for hypofractionation and stereotactic radiation in a clinically-accessible way. Hypofractionated radiation therapy, which consists of larger-dose radiation treatments that are given over a shorter time period compared to conventional radiation fraction sizes, is used to treat a variety of cancers, including prostate, breast, lung, and colorectal. Conventional radiation therapy and hypofractionated radiation therapy have different effectiveness rates for cancer treatment and have different impacts on normal tissues in terms of causing toxicity. There is a significant and growing body of literature on the use of different dosing regimens to treat a variety of cancers and radiation oncologists need to keep up with the various dosing schedules, the effect of each regimen on cancer control in different cancers, and how the different schedules affect each organ in terms of toxicity. The book thus provides concise information ranging from commonly-used dose-fractionation schemes for hypofractionated and stereotactic body radiotherapy to simulation and treatment specifications to published safety and efficacy data. Chapters additionally examine the biological rationales for the efficacy of hypofractionated radiation; present clinical studies that demonstrate the efficacy and safety of hypofractionated radiation treatment in a variety of cancers; and describe the advances in technology that have allowed hypofractionated radiation to be safely given. This is an ideal guide for radiation oncology clinicians and trainees.

TECHNICAL BASIS OF RADIATION THERAPY

PRACTICAL CLINICAL APPLICATIONS

Springer Science & Business Media This book, now in its fourth edition, is unique in detailing in depth the technological basis of radiation therapy. Compared with the previous edition, all chapters have been rewritten and updated. In addition, new chapters have been included on various topics, including the use of imaging in treatment planning, second malignant neoplasms due to irradiation, and quality assurance in radiation oncology. The book is divided into two sections. The first covers basic concepts in treatment planning, including essential physics, and explains the various approaches to radiation therapy, such as intensity-modulated radiation therapy, tomotherapy, and high and low dose rate brachytherapy. The second part documents the practical clinical applications of these concepts in the treatment of different cancers. All of the chapters have been written by leaders in the field. This book will serve to instruct and acquaint teachers, students and practitioners in the various fields of oncology with the basic technological factors and approaches in radiation therapy.

PRINCIPLES AND PRACTICE OF RADIATION THERAPY - E-BOOK

Elsevier Health Sciences The only radiation therapy text written by radiation therapists, *Principles and Practice of Radiation Therapy, 4th Edition* helps you understand cancer management and improve clinical techniques for delivering doses of radiation. A problem-based approach makes it easy to apply principles to treatment planning and delivery. New to this edition are updates on current equipment, procedures, and treatment planning. Written by radiation therapy experts Charles Washington and Dennis Leaver, this comprehensive text will be useful throughout your radiation therapy courses and beyond. Comprehensive coverage of radiation therapy includes a clear introduction and overview plus complete information on physics, simulation, and treatment planning. Spotlights and shaded boxes identify the most important concepts. End-of-chapter questions provide a useful review. Chapter objectives, key terms, outlines, and summaries make it easier to prioritize, understand, and retain key information. Key terms are bolded and defined at first mention in the text, and included in the glossary for easy reference. UPDATED chemotherapy section, expansion of What Causes Cancer, and inclusions of additional cancer biology terms and principles provide the essential information needed for clinical success. UPDATED coverage of post-image manipulation techniques includes new material on Cone beam utilization, MR imaging, image guided therapy, and kV imaging. NEW section on radiation safety and misadministration of treatment beams addresses the most up-to-date practice requirements. Content updates also include new ASRT Practice Standards and AHA Patient Care Partnership Standards, keeping you current with practice requirements. UPDATED full-color insert is expanded to 32 pages, and displays images from newer modalities.