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RHETT HUFFMAN

Focal Therapy of Prostate Cancer Springer

This book presents a comparison analysis of two cancer treatment therapies: carbon ion therapy and protontherapy. It is divided in 5 sections. The first ones gives the reader a brief history of Radiotherapy and types of radiation. In the second section, the techniques and equipments, including new ones in development such as Cyclinac , Laser and DWA, are described. The third section describes biophysical (such as stopping power and LET) and biological (such as RBE and OER) properties, the fundamental experiments and clinical area. The fourth section presents models and the fifth section compares both techniques, showing advantages and disadvantages of each, and their similarities.

IntechOpen

This booklet is part of the Dattoli Cancer Foundation's "Prostate Cancer Essentials for Survival" series. As a primer for informed patients and their families, this volume provides a comprehensive overview of all the currently available prostate cancer treatment

options, including data from the most recent medical studies relating to each type of treatment. This includes the Dattoli combined protocol of brachytherapy and Dynamic Adaptive Radiation Therapy (DART), which utilizes every state-of-the-art device in the arsenal of 4 Dimensional Image Guided Intensity Modulated Radiation Therapy (4D IG-IMRT). Two leading cancer care professionals (doctor and nurse) specializing in state-of-the-art radiotherapy guide readers step by step through the pros and cons of each treatment option. The authors share their wealth of knowledge and experience as members of the Dattoli Cancer Center & Brachytherapy Research Institute, which has the largest brachytherapy and IMRT program in the country.

Modern Practices in Radiation Therapy IntechOpen

Cancer is the leading cause of death in economically developed countries and the second leading cause of death in developing countries. It is an enormous global health encumbrance, growing at an alarming pace. Global statistics show that in 2030 alone, about 21.4 million new cancer cases and 13.2 million cancer deaths are expected to occur, simply due to the growth, aging of the population, adoption of new lifestyles and behaviors. Amongst the several modes of treatment for cancer available, Radiation treatment has a major impact due to technological

advancement in recent times. This book discusses the pros and cons of this treatment modality. This book "Modern Practices in Radiation Therapy" has collaged topics contributed by top notch professionals and researchers all around the world.

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Modern Practices in Radiation Therapy Springer

This book is a practical guide on how best to incorporate advanced radiation therapy techniques into the multimodality treatment of a wide range of gastrointestinal tumors, including esophageal cancer, gastric cancer, hepatobiliary malignancies (primary and metastatic liver tumors, intrahepatic, perihilar, and extrahepatic cholangiocarcinomas, and gallbladder cancer), pancreatic cancer, colorectal cancer, and carcinoma of the anal canal. Practical considerations when treating patients with external beam radiation therapy, intensity-modulated radiation therapy, particle therapy, and stereotactic body radiation therapy are clearly explained. Detailed attention is devoted to the safety and efficacy of radiotherapy in combination with current and emerging systemic therapies (chemotherapy, immunotherapy, and biologic agents), surgery, and ablative therapy, and the advantages and disadvantages of alternative treatment approaches for different tumor types are carefully evaluated. The book will benefit radiation oncologists, medical and surgical oncologists, medical physicists, medical dosimetrists, and other oncology professionals.

Modern Practices in Radiation Therapy Karger Medical and Scientific Publishers

During his career at the Martinez Administration Medical Center in California Dr Merrill was responsible for the care of thousands of men with prostate cancer and has performed hundreds of curative radical retropubic prostatectomies. In this eBook Dr. Merrill shares the knowledge gained from this experience with the reader. It is the author's strong belief that no one should die of prostate cancer in the 21st century. Dr Merrill also believes that the key to beating this potentially lethal cancer is early diagnosis and aggressive surgical removal of the cancer before it has spread beyond the confines of the prostate. Younger cancer free males should use the information in this book to be sure that they are being properly screened for prostate cancer at appropriate intervals. Men who have developed prostate cancer may use its contents to familiarize themselves with the pros and cons of the available methods for treating prostate cancer including open surgery, radiation therapy, brachytherapy, cryosurgery, laparoscopic surgery and robotic assisted laparoscopic surgery. It is essential that the male with prostate cancer have this information at his finger tips when discussing his treatment options with the urologist or radiotherapist. The treatment choices for males with metastatic disease are also addressed while stressing the advantages of the subcapsular approach to orchidectomy. Finally, Dr Merrill addresses the all important issue of how to pick a surgeon.

Protontherapy Versus Carbon Ion Therapy Springer Science & Business Media

Protontherapy Versus Carbon Ion TherapySpringer

PARP Inhibitors for Cancer Therapy Springer Science & Business Media

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Modern Practices in Radiation Therapy PMPH-USA

The niche bestseller "Surviving Prostate Cancer Without Surgery" begins with the shooting of a urologist and includes a World War II Battle. The book exposes the big lie about radical prostate surgery, is filled with cartoons and simple diagrams, and is written for the average layperson in easy-to-understand style. The author, Bradley Hennenfent, M.D., has known many men who suffered from prostate cancer and his book includes many uplifting stories about less harmful treatments than surgery. Dr. Hennenfent also explains the problem of lies, damn lies, and prostate cancer statistics. The adverse effects of surgery: impotence, sexual dysfunction, incontinence, and urethral strictures are explained in realistic fashion. Urologist W. Reid Pitts, Jr., M.D., FACS, wrote an outstanding letter-to-the-editor of the "Journal of Urology" lambasting the radical prostatectomy. When interviewed for "Surviving Prostate Cancer Without Surgery," Dr. Pitts said: "Although I did the first ever nerve sparing radical prostatectomy at New York-Cornell Hospital, I've abandoned the radical prostatectomy for my prostate cancer patients. There is always a better treatment option." "Two randomized, controlled studies suggest that about 90% of all prostate cancer surgery done to date has failed to extend the life of the patient," says Dr. Bradley Hennenfent M.D., the book's author, who adds, "This will be news to most men." "Surgery should not be advertised as a cure-all for prostate cancer," says Dr. Hennenfent, "although surgery does increase the lifespan of about 10% of highly selected patients, and improvements in surgery are constantly being developed." "My book details the harm done by surgery, while explaining the pros and cons of watchful waiting, active surveillance, noninvasive therapy, radiation seed implants, three-dimensional radiation therapy, herbal medications, cryosurgery, and hormone blockade."

Modern Practices in Radiation Therapy Springer Science & Business Media

Here is an exciting new guide to the use of PET-CT imaging in radiotherapy. You'll get practical, useful information for utilizing this novel imaging technique—from different methods for contouring biological target volumes in various anatomic regions to how different experts use this imaging in targeted treatment. This thorough text helps you make concise, accurate treatment choices based on current evidence and expert authority. The result is an essential tool for everyone on the radiotherapy treatment team in the era of image-guided radiotherapy. Helps familiarize you with the basics of PET imaging in nuclear medicine. Covers the use of PET-CT with radiotherapy treatment planning, offering practical guidance in how different experts use this relatively new technology. Highlights contrast using full-color images, clearly indicating target volumes and different radiation

dosages. Outlines the advantages and disadvantages of different techniques in contouring PET-CT target volumes for radiotherapy. Features case illustrations in using PET-CT in radiotherapy treatment planning for different tumor sites.

Modern Practices in Radiation Therapy Createspace Independent Pub

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Modern Practices in Radiation Therapy IntechOpen

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Particle Beam Radiation Therapies for Cancer IntechOpen
Radiation therapy is in the process of continual change, fueled by advances in computer technology, but also aided by the contributions of several disciplines such as physics, mathematics, radiological diagnostics, neurosurgery, and mechanical and electrical engineering. Based on the 3D imaging techniques CT and MRI, a complete change from the 2D consideration of the radiotherapy problem has taken place, leading to 3D treatment planning and to completely new treatment delivery systems. A 3D approach allows for a dramatic rethinking of the following central therapy issues: positioning, targeting, and dose and risk calculation. Major advances have been made in recent years in conformal or stereotactic techniques, in dosimetry, the target volume concept as well as clinical studies. The advances are reflected in the papers collected here from the international symposium '3D Radiation Treatment: Technological Innovations and Clinical Results' held in Munich in March 1999. The reports present the newest technical developments and clinical applications. New conformal and stereotactic technologies are discussed. Clinical results are presented in the treatment of lung cancer, prostate cancer, and brain tumors. The role of growth factors and cytokines in the pathogenesis of radiation injury is examined as are mechanisms in the development of normal tissue damage and their significance for understanding tolerated radiation dose. Included are reports on endovascular brachytherapy and new tools of 3D brachytherapy. This timely book will be of particular interest to radiation oncologists and related clinical practitioners, biologists and physicists.

What You Should Know About Prostate Cancer Humana Press

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The Dattoli Challenge Roseville Books

Where do you begin to look for a recent, authoritative article on the diagnosis or management of a particular malignancy? The few general oncology textbooks are generally out of date. Single papers in specialized journals are informative but seldom comprehensive; these are more often preliminary reports on a very limited number of patients. Certain general journals frequently publish good indepth reviews of cancer topics, and published symposium lectures are often the best overviews available. Unfortunately, these reviews and supplements appear sporadically, and the reader can never be sure when a topic of special interest will be covered. Cancer Treatment and Research is a series of authoritative volumes which aim to meet this need. It is an attempt to establish a critical mass of oncology literature covering virtually all oncology topics, revised frequently to keep the coverage up to date, easily available on a single library shelf or by a single personal subscription. We have approached the problem in the following fashion. First, by dividing the oncology literature into specific subdivisions such as lung cancer, genitourinary cancer, pediatric oncology, etc. Second, by asking eminent authorities in each of these areas to edit a volume on the Specific topic on an annual or biannual basis. Each topic and tumor type is covered in a volume appearing frequently and predictably, discussing current diagnosis, staging, markers, all forms of treatment modalities, basic biology, and more.

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Protontherapy Versus Carbon Ion Therapy Elsevier Health Sciences

Following recent developments in hypofractionated stereotactic radiation therapy (SRT) for brain and spine tumors, this new edition offers a fully updated and comprehensive "how-to" guidance on hypofractionated SRT for brain and spine metastases, glioma, benign tumors, and other tumor types. Presenting the state of the art of the technology and practice, this book: • Discusses the pros and cons of hypofractionated SRT compared to single-fraction radiosurgery, providing a deeper understanding of radiosurgery and radiobiology • Explains the toxicity and adverse effects of hypofractionated SRT including the dosage of 24 Gy in two spine SBRT fractionation schemes, aiding practitioners in communicating the risks and benefits of treatment and in obtaining consent from their patients • Outlines

the current standards for safe practice, including checklists for implementation • Explores new technologies for brain and spine tumors including LITT, MR-guided focused ultrasound, and Zap technology, with chapters authored by well-recognized experts in the radiation, oncology, and neurosurgery communities; this book delivers a level of technological and clinical detail not available in journal papers This book is suitable for radiation oncologists, neurosurgeons, and medical physicists who specialize in brain and/or spine radiosurgery or want to start a program and need a comprehensive reference with key checklists for practice.

Khan's Treatment Planning in Radiation Oncology Springer
Cancer is the leading cause of death in economically developed countries and the second leading cause of death in developing countries. It is an enormous global health encumbrance, growing at an alarming pace. Global statistics show that in 2030 alone, about 21.4 million new cancer cases and 13.2 million cancer deaths are expected to occur, simply due to the growth, aging of the population, adoption of new lifestyles and behaviors. Amongst the several modes of treatment for cancer available, Radiation treatment has a major impact due to technological advancement in recent times. This book discusses the pros and cons of this treatment modality. This book "Modern Practices in Radiation Therapy" has collaged topics contributed by top notch professionals and researchers all around the world.

Radiation Oncology: Radiobiological and Physiological Perspectives LWW

Stereotactic body radiation therapy (SBRT) has emerged as an important innovative treatment for various primary and

metastatic cancers. This book provides a comprehensive and up-to-date account of the physical/technological, biological, and clinical aspects of SBRT. It will serve as a detailed resource for this rapidly developing treatment modality. The organ sites covered include lung, liver, spine, pancreas, prostate, adrenal, head and neck, and female reproductive tract. Retrospective studies and prospective clinical trials on SBRT for various organ sites from around the world are examined, and toxicities and normal tissue constraints are discussed. This book features unique insights from world-renowned experts in SBRT from North America, Asia, and Europe. It will be necessary reading for radiation oncologists, radiation oncology residents and fellows, medical physicists, medical physics residents, medical oncologists, surgical oncologists, and cancer scientists.

Strategies for Radiation Therapy Treatment Planning Frontiers Media SA

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