Carcinoma Of The Kidney And Testis And Rare Urologic Malignancies Innovations In Management

#Kidney Carcinoma #Testis Carcinoma #Urologic Malignancies #Cancer Management Innovations #Rare Urologic Cancers

Explore the latest advancements in managing carcinoma of the kidney and testis, alongside innovative approaches to treating rare urologic malignancies. This resource provides insights into cutting-edge treatments and management strategies for complex urological cancers, focusing on improving patient outcomes and quality of life through innovative techniques and research breakthroughs.

Carcinoma of the Kidney and Testis, and Rare Urologic Malignancies

Current information on the etiology, diagnosis, and treatment of carcinomas of the kidney and testis, as well as several less common tumors of the genitourinary tract. Recent contributions in epidemiology and molecular genetics are discussed with a view to their importance for clinical practice, while novel approaches to the treatment of several important tumors are presented, with emphasis on multidisciplinary patient management. Numerous illustrations assist readers in obtaining a better understanding of the data presented.

The Impact of Tumor Biology on Cancer Treatment and Multidisciplinary Strategies

Te rapidly changing concepts in radiation oncology with the development of more precise - strumentation for delivery of radiation therapy and a greater emphasis on hypofractionation technologies require a very intimate knowledge of tumor biology and the infuence of various biologic factors on dose distribution within the tumor in terms of homogeneity as well as prev- tion of any late efects on normal tissue surrounding the tumor itself. Not only are these major factors in clinical practice but also the known factors of inhomogeneity of cancer cells, the impact of microenvironment in terms of radiation efect, and host factors make it mandatory to design therapeutic strategies to improve the outcome and to diminish any potential short-term or lo- term risks from the radiation therapy. Te authors have developed an outstanding text that deals with these strategies and how they would impact on established and emerging new technologies and treatment. Te context of the presentations within a multidisciplinary combined modality therapy program is incredibly - portant. In this volume, various topics are reviewed including tumor genesis, cell proliferation, - giogenesis, the physiologic characteristics of malignant tissues, invasion and adhesion, the route and role pursued in the development of metastasis, and the role of the human immune system in cancer prevention and development.

CURED I - LENT Late Effects of Cancer Treatment on Normal Tissues

This volume is based on the LENT V NCI-sponsored meeting held in May 2004 and the CURED I Conference in 2006. Written by experts in the field, it addresses a critical topics relating to late effects, such as mechanisms of injury, the role of screening, options for interventions, second malignancies, and prevention. It is hoped that these findings will help readers to prevent and treat the long-term side-effects of irradiation.

Nasopharyngeal Cancer

Nasopharyngeal Cancer - Multidisciplinary Management provides a comprehensive account of the current state of knowledge on nasopharyngeal cancer and its multidisciplinary management. The first ten chapters document contain essential background information on subjects such as epidemiology, pathogenesis, molecular biology, pathology, and the use of imaging in diagnosis and staging. Subsequently, the various treatment options and combinations in a range of settings are examined in depth. Detailed attention is given to the roles of concurrent, adjuvant, and neoadjuvant chemotherapy and advanced radiotherapy techniques. Further chapters then explore surgical treatment, follow-up, treatment of metastatic disease, treatment-related complications, and nasopharyngeal cancer in children. This is an important book that will prove essential reading for the radiation oncology community worldwide and meet the need for substantial improvements in knowledge of modern techniques.

Radiological Imaging in Hematological Malignancies

One of the first book’s to deal specifically with imaging of the entire spectrum of hematological malignancies. The use of the latest imaging modalities is well described, and an important aspect of the book is the role of imaging techniques in differentiating between manifestations of the underlying disease and complications of treatment. Each of the 28 chapters is written by an internationally recognized expert, making this book the most current and complete treatment of this subject available. Includes many high-quality radiological and histological illustrations. It should be of great interest to radiologists and hematologists.

Radiotherapy of Intraocular and Orbital Tumors

This second edition of Radiotherapy of Intraocular and Orbital Tumors provides up-to-date information on the diagnosis and treatment of cancers of the eye and orbit. Important chapters from the first edition have been revised and thus provide, for example, the most recent data with respect to retinoblastoma, rhabdomyosarcoma, and melanoma. In addition, there are a number of chapters by new contributors, so that this edition has a more broadly based, international character. The volume outlines the presenting signs and symptoms of the various tumors and analyzes the indications for ultrasonography, computed tomography, and magnetic resonance imaging studies. It describes in detail treatment techniques and their results with respect to survival and local tumor control, paying special attention to multimodality therapy. Particle beam irradiation and plaque therapy are reviewed, and chemotherapy and heat treatment are also discussed. Potential complications of radiotherapy are described, and relevant information is provided on the conservative and surgical management of radiation effects. The book emphasizes the need for a holistic approach to the patient that recognizes the wider role of irradiation of the eye now that more careful treatment planning is possible. This revised edition will be a valuable asset to all ophthalmologists, radiation oncologists, pediatricians, endocrinologists, oncologists, and residents in training, as well as to students in these disciplines.

Head and Neck Cancer Imaging

This book provides a comprehensive review of state-of-the-art imaging in head and neck cancer. Precise determination of tumor extent is of the utmost importance in these neoplasms, as it has important consequences for staging of disease, prediction of outcome and choice of treatment. Only the radiologist can fully appreciate submucosal, perineural, and perivascular tumor spread and detect metastatic disease at an early stage. Imaging is also of considerable benefit for patient surveillance after treatment. All imaging modalities currently used in the management of head and neck neoplasms are considered in depth, and in addition newer techniques such as PET-CT and diffusion-weighted MRI are discussed. This book will help the reader to recommend, execute and report head and neck imaging studies at a high level of sophistication and thereby to become a respected member of the team managing head and neck cancer.

Liver Malignancies

A comprehensive and up-to-date overview of the role of diagnostic and interventional radiology in respect of liver malignancies. Following background chapters on anatomy, epidemiology, and clinico-pathologic features, each of the diagnostic imaging techniques is carefully appraised, focusing on new developments in equipment and contrast agents. The interventional therapeutic approaches to primary and secondary hepatic malignancies are then discussed in depth, as well as such special topics as liver tumors in children and hepatic transplantation. Written by leading experts from around the world, this will prove to be an indispensable source of information for both clinicians and researchers.

Percutaneous Tumor Ablation in Medical Radiology

This book encompasses the different technologies employed in thermal ablation, its indications and the results achieved in various clinical conditions. It clearly explains the basics of thermal ablative techniques. In the main part of the book, techniques of guiding the applicators to the target structures by use of different imaging tools are discussed. The book, written by acknowledged experts, has a lucid structure and excellent images.

Radiation Oncology for Cure and Palliation

Given that treatment with curative intent is possible in only one-half of cancer victims, and that such treatment frequently fails, the majority of patients with cancer will require relief of symptoms and signs caused by their disease. In this book, the specific contribution of radiation therapy to palliation is considered within the context of multidisciplinary management. Individual chapters are devoted to palliative radiation therapy for primary tumours and metastases at different sites. The management of pain is discussed, and chapters are also devoted to end of life care, the management of complications of radiation therapy, and useful medications. This book will prove useful to radiation oncologists and medical students.

Dynamic Contrast-Enhanced Magnetic Resonance Imaging in Oncology

Dynamic contrast-enhanced MRI is now established as the methodology of choice for the assessment of tumor microcirculation in vivo. The method assists clinical practitioners in the management of patients with solid tumors and is finding prominence in the assessment of tumor treatments, including anti-angiogenics, chemotherapy, and radiotherapy. Here, leading authorities discuss the principles of the methods, their practical implementation, and their application to specific tumor types. The text is an invaluable single-volume reference that covers all the latest developments in contrast-enhanced oncological MRI.

Virtual Colonoscopy

Rapid progress in the technique and practice of virtual colonoscopy as well as the conti- ing clinical high interest for this radiodiagnostic procedure made this second edition, only 3 years after the publication of the ? rst edition of this successful volume, necessary. This new edition includes the latest study results and technical developments of this exciting noninvasive diagnostic modality for the evaluation of the colon. The technical presentation and lay out of the text and of the many new illustrations are impeccable. The editors were again able to ensure the collaboration of many international leaders in the ? eld and the book offers a very comprehensive overview of all aspects and issues of CT colonography

with a focus on how to perform practically this examination, which requires meticulous technique starting from rigorous preparation, then the conduct of the study itself, and ? nally the interpretation of the results. I am very much indebted to the editors and the collaborating authors for preparing this outstanding volume in a record short time period, which enabled them to include the latest technical advances in this rapidly evolving important radiological method. It is highly recommended to general and gastrointestinal radiologists as well as gast- eneterologists as a most welcome update of their knowledge and as a practical guide in their daily practice. I am convinced that this second edition will meet the same success with our readership as the ? rst one.

MR Angiography of the Body

Magnetic resonance angiography (MRA) continues to undergo exciting technological advances that are rapidly being translated into clinical practice. It also has evident advantages over other imaging modalities, including CT angiography and ultrasonography. With the aid of numerous high-quality illustrations, this book reviews the current role of MRA of the body. It is divided into three sections. The first section is devoted to issues relating to image acquisition technique and sequences, which are explored in depth. The second and principal section addresses the clinical applications of MRA in various parts of the body, including the neck vessels, the spine, the thoracic aorta and pulmonary vessels, the heart and coronary arteries, the abdominal aorta and renal arteries, and peripheral vessels. The final section considers the role of MRA in patients undergoing liver or pancreas and kidney transplantation. This book will be an invaluable aid to all radiologists who work with MRA.

Coronary Radiology

This is the first monograph to focus exclusively on coronary radiology. It is particularly timely, given that the emergence of computed tomography and magnetic resonance imaging, coupled with improvements in both hard- and software, has made reproducible non-invasive coronary imaging a practical reality. A wide range of topics is addressed, including: quantitative angiography, intravascular and quantitative ultrasound, multislice and electron beam computed tomography, magnetic resonance coronary angiography and use of the coronary calcium score as an independent risk factor. All of the latest developments, such as non-invasive intracoronary thrombus imaging, are covered. Particular care has been taken to consider the common questions confronted in asymptomatic patients. The text is supported by high-quality color images of the coronary and cardiac anatomy.

Inflammatory Diseases of the Brain

With contributions by numerous experts

Functional Preservation and Quality of Life in Head and Neck Radiotherapy

The emphasis on cancer management in the past was based primarily on control rates from multidisciplinary input in management. There has always been a recognition that one would like to achieve the best result with the least complication, but never has there been any major emphasis on evidence-based outcome studies, nor on functional preservation and quality of life. The authors of this book have dealt very effectively with the various tumor types in head and neck cancer with the experts in the ? eld of management. The contents range from epidemiology and treatment outcome, treatment techniques with the potential impact on the quality of life such as dysphagia, to the various options relative to high technology radiation therapy programs for mana- ment. The potential for improving form and function through surgical care as an integrated part of the program is dealt with very effectively as well as the potentials for chemotherapy and the use of targeted agents have on quality of life issues. The volume also addresses toxicity, quality of life, and techniques for prevention of adverse effects, as well as the potentials for rehabilitation and supportive care. The authors have clearly done an extraordinarily good job in addressing the mul- plicity of problems that impact upon the functional preservation and quality of life in head and neck radiation therapy. Philadelphia Luther W.

Contrast Media

This revised edition of Contrast Media: Safety Issues and Guidelines, updates the successful first edition and contains new chapters. It provides an invaluable, unique and unparalleled source of information on the safety issues relating to contrast media.

Imaging of the Pancreas

Using numerous high-quality illustrations, this volume assesses strengths and limitations of techniques for the imaging of pancreatitis. Ultrasound, computed tomography, magnetic resonance imaging and interventional imaging are considered separately in the settings of acute and chronic pancreatitis, with an additional section on imaging of complications. The significance of the imaging findings for clinical and therapeutic decision making is clearly explained, and protocols are provided to help obtain the best possible images.

High-Resolution Sonography of the Peripheral Nervous System

Diagnostic sonography of the peripheral nervous system is an evolving specialty of musculoskeletal ultrasound. This book provides an in-depth description of sonographic examination technique - how to access an individual nerve with sonography and how to interpret local findings. A particular focus is on sonographic-anatomic correlations. All currently possible clinical applications are addressed, including the evaluation of nerve compression syndromes, traumatic lesions, tumors, and postoperative complications. The book contains a huge number of high-quality patient sonograms, all derived from cases with clinical and in many instances surgical correlation.

Radiology of Osteoporosis

Due to the aging population in the Western world, osteoporosis has become a major problem which is of interest to several medical disciplines: not only radiologists but also gynecologists, endocrinologists, rheumatologists, and orthopedic surgeons are involved in the management of this widespread condition. Functional imaging is becoming rapidly an important area of diagnostic radiology. Imaging of osteoporosis is another application of this recent addition to the armory of radiology. It is important that radiologists should be fully aware of the range of diagnostic modalities-conventional radiologic methods, dual X-ray absorptiometry, quantitative computed tomography, quantitative ultrasound, magnetic resonance imaging, etc. -that are now available for the diagnosis and the follow-up of osteoporosis, and know how to apply these sophisticated methods in daily clinical practice. Dr. S. Grampp is a radiologist with a longstanding interest in osteoporosis, and his previous publications on this condition are internationally known. He has been very successful in engaging several outstandingly qualified experts to contribute to the indi vidual chapters of this superb book, which provides a omprehensive c overview of our current knowledge of osteoporosis. I am confident that this volume will meet with great interest from radiologists and all other clinicians involved in the care of patients with osteoporosis and will encounter the same success as many previous volumes in this series.

Intracranial Vascular Malformations and Aneurysms

This book describes the pathoanatomical, pathophysiological, and imaging features of vascular malformations and aneurysms of the brain and the modern, minimally invasive endovascular methods and techniques employed in their treatment. All chapters in the second revised edition of this book have been thoroughly updated. Readers will find this clearly organized book is richly illustrated with numerous informative CT, MR and DSA images, including high-end 7-Tesla MR images.

Pediatric Uroradiology

This fully updated and revised edition of a classic work takes full account of recent dramatic changes in the subject area. It describes in detail all aspects of pediatric uroradiology, embracing both recent developments and established concepts. New chapters have been added, for example on genetics in nephrourology and clinical management of important nephrourologic disorders. Short conclusions are included at the end of sections to provide the reader with key information.

Imaging in Pediatric Skeletal Trauma

This is a comprehensive textbook on the imaging of pediatric skeletal trauma. It gives radiologists and pediatric surgeons a detailed description of the techniques used as well as examples of the imaging findings and details of their clinical relevance. Each chapter is written by an expert in the field and includes a wealth of illustrations. The book provides invaluable advice on those features which will affect the orthopedic management of a child.

Imaging in Transplantation

This book covers all topics related to the imaging of organ transplantation. The main part of the book offers in-depth coverage of heart, renal, liver, lung, bone marrow and pancreatic and intestinal transplantation. Each of these topics is discussed firstly in a clinical chapter and then in a radiological chapter. This unique and superbly illustrated volume will be of great assistance to all who work in this field.

Image Processing in Radiology

This book, written by leading experts from many countries, provides a comprehensive and up-to-date description of how to use 2D and 3D processing tools in clinical radiology. The opening section covers a wide range of technical aspects. In the main section, the principal clinical applications are described and discussed in depth. A third section focuses on a variety of special topics. This book will be invaluable to radiologists of any subspecialty.

Radiology of the Stomach and Duodenum

A number of imaging techniques, many of them complementary, are used in the investigation and treatment of disorders of the stomach and duodenum. Optimal patient treatment requires a thorough knowledge of the application of these techniques, as well as a sound understanding of pathology of the stomach and its presenting symptomatology. This well-illustrated book covers the various investigative methods in detail, discussing their advantages and disadvantages and explaining their role in specific settings. It will be of great value to both trainee and experienced radiologists, and should assist in promoting effective and judicious patient management.

Liver Radioembolization with 90Y Microspheres

This vital text for oncologists and radiotherapists provides an in-depth account of all aspects of radioembolization, a relatively novel technique based on the efficacy of radiotherapy for the treatment of liver tumors. Radioembolization combines embolization (intravascular deployment of particles – microspheres loaded with yttrium-90) and brachytherapy (local administration of radiotherapy), thereby allowing delivery of high doses of beta-radiation specifically to the tumoral area.

Clinical Target Volumes in Conformal and Intensity Modulated Radiation Therapy

Conformal radiation therapy represents a new challenge. It offers the prospect of either increasing the radiation dose to target tissues while delivering a similar dose to organs at risk, or reducing the dose to organs at risk while maintaining the dose to target tissues. First, lymph node areas at risk are established using the available data from pathological examination. Then, based on a three-dimensional description of the anatomical regions, guidelines for the delineation of the clinical target volumes are proposed. The data presented should enable the reader to make appropriate decisions regarding the selection and delineation of the target volumes when confronted with the most frequent tumor types and sites.

Modification of Radiation Response

This book describes and summarizes the radiation responses of both normal and neoplastic tissues with a focus on rational strategies for the modification of these responses. Emerging data from molecular oncology and radiobiology are reviewed in depth. The book covers not only general principles of radiation-induced reactions but also a large number of preclinical and clinical data that will guide the reader through this complex and dynamic field and will provide valuable information for the development of further research projects.

Multimodal Concepts for Integration of Cytotoxic Drugs

The first part of this book summarizes the rationale and the preclinical data for combined treatment with ionizing radiation and pharmaceutical agents. Individual chapters focus on forms of combined treatment, with due consideration being given to a range of drugs and to emerging combinations with small molecules and antibodies. The second part comprises a series of disease-specific chapters in which the clinical results of combined modality treatment are presented.

MRI and CT of the Female Pelvis

This volume provides a comprehensive account of the use of MRI and CT cross-sectional imaging techniques to identify and characterize developmental anomalies and acquired diseases of the female genital tract. Benign and malignant diseases are considered, and attention is also paid to normal anatomical findings and variants. Emphasis is on the most recent diagnostic and technical advances, and the text is complemented by detailed illustrations.

Radiological Imaging of the Digestive Tract in Infants and Children

This comprehensive, up-to-date and extensively illustrated volume offers a multimodality approach to gastrointestinal imaging in children and infants. The role of each of the currently available imaging techniques is considered carefully, and diagnostic dilemmas are discussed and illustrated. Against the background of rapid recent advances in imaging technology, this volume will serve as an essential reference work for all who are engaged in the field.

Computed Tomography of the Lung

This book describes the main appearance and distribution patterns of lung disease with the help of many color drawings and high-quality illustrations. This approach enables the reader to recognize these patterns and to interpret them in order to reach a diagnosis. In addition, the book includes many typical cases so that the reader can see how the information is applied.

Radiation Therapy of Benign Diseases

This expanded and updated second edition is a practical text to aid radiation oncologists in evaluating and treating benign diseases. An introductory chapter by an eminent malpractice lawyer clarifies the medical-legal implications of the radiation treatment of such diseases, and this is followed by the various benign conditions in alphabetical order. In each case, a brief summary is followed by citations of pertinent literature in both explanatory tables and reference lists. Although a comprehensive review, it remains readily comprehensible and will be recognised as the standard text on the subject.

Radiology of the Petrous Bone

This volume provides a complete overview of the imaging of the normal and diseased petrous bone. After an introduction describing the anatomy of the area, subsequent chapters address the various diseases and conditions affecting the petrous bone that are encountered in daily practice. At the beginning of each of these chapters an otologist explains what is expected of the radiologist. The various classic imaging methods are described and discussed in detail, and individual chapters are included on newer techniques such as functional imaging and virtual imaging. Imaging findings are documented with the aid of numerous informative high-quality illustrations. This book, with its straightforward structure based essentially on topography, will prove of immense value in daily practice.

Radiology and Imaging of the Colon

Radiology has seen dramatic technological advances in recent years. This multi-author text describes the current approach to colonic imaging and provides a detailed insight into likely future developments. The role of radiology in cancer screening is fully considered. In this context, particular attention is devoted to CT and MR virtual colonography, which, it is anticipated, will largely replace barium enema radiology and reduce the use of diagnostic colonoscopy. Modern cancer staging techniques, including PET scanning, are reviewed, and post-treatment follow-up strategies are examined. The imaging of inflammatory and traumatic conditions of the colon is described, as are current colonic interventional options, such as tumour stenting, colon decompression and vascular embolisation. In short, this book provides a comprehensive, well-illustrated and up-to-date review of colonic imaging.

Functional Imaging of the Chest

For a long time, imaging of the chest was based on the use of either radiography, demonstrating lung morphology, or scintigraphy, looking at lung function. However, as a result of recent developments in CT and MRI technology it is now possible to perform dedicated investigations of different aspects of lung function, such as ventilation, perfusion, gas exchange, and respiratory mechanics. This volume, written by acknowledged experts in the field, provides a well-illustrated and comprehensive review of these novel approaches to functional imaging of the chest. It will be of great assistance to all who are

establishing such strategies in the research or clinical arenas for the diagnostic work-up and follow-up of patients with lung diseases.

Imaging and Intervention in Abdominal Trauma

This excellently illustrated reference work provides a comprehensive overview of the imaging and management of abdominal trauma. Detailed attention is paid to pathophysiology, clinical symptoms and findings, all relevant imaging modalities and other tests employed to evaluate abdominal injuries at the time of admission of the trauma victim. Types of management described in depth include: surgical, conservative, interventional radiological, and endoscopic. Posttraumatic complications are discussed, including those arising from treatment. There are also general chapters on patient resuscitation, logistics, and medicolegal issues.

Imaging of the Shoulder

This volume covers the broad spectrum of imaging methods and abnormalities of relevance in the diagnostic workup of the shoulder. In the first part of the book, individual chapters are devoted to radiography, arthrography, computed tomography and CT arthrography, magnetic resonance imaging and MR arthrography, ultrasound and interventional procedures. Controversies regarding the use of the different imaging techniques are explained and discussed. The second part of the book then documents the application of these techniques to each of the clinical problems and diseases encountered in the shoulder. The authors are all experts in their field and include rising stars of musculoskeletal radiology. This well-illustrated book will assist the general and the musculoskeletal radiologist in planning, guiding and interpreting imaging studies. For the clinician it puts into perspective the role of the different imaging methods.

Radiology of the Pharynx and the Esophagus

All aspects of radiology of the pharynx and esophagus are coverd in detail. The text covers anatomy, physiology, examination techniques, and describes all relevant disease entities. However, it also considers endoscopic and manometric aspects of interest to the radiologist. Moreover, it has a broad clinical approach, encompassing not only analysis of symptoms but also topics such as the social and mental burden of dysphagia. Interventions in the esophagus from the radiologist's and the endoscopist's points of view are also addressed. The authors are all renowned experts in their field. Although it is assumed that most readers will be radiologists, much information will be of interest to other specialists involved in the evaluation and treatment of dysphagia, including ENT surgeons, thoracic surgeons, thoracic surgeons, speech and language pathologists, phoniatricians, gastroenterologists, and neurologists.