

Radiopathology of Organs and Tissues

Edited by Eberhard Scherer, Christian Streffer,
and Klaus-Rüdiger Trott



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Radiopathology Of Organs And Tissues

**Michael Molls, Peter Vaupel, Carsten
Nieder, Mitchell Steven Anscher**



Radiopathology Of Organs And Tissues:

Radiopathology of Organs and Tissues Eberhard Scherer, Christian Streffer, Klaus-Rüdiger Trott, 2012-12-06 The biologic effects of radiation on normal tissues and tumors represent a complex area for investigation These effects are of far reaching consequence to the diagnostic radiologist and the radiation oncologist having a significant impact not only in concepts relative to radiation protection but also in concepts relative to tumor biology and its response to radiation injury The volume edited by SCHERER STREFFER and TROTT represents an extension of basic radiation biology data into the effects of radiation in producing pathology in organs and tissues The data presented by the multiple authors involved in this text cover essentially all tissues in the body with specific definition of radiopathology changes and their impact on clinical care of the patient This volume represents an important and significant contribution toward a better understanding of these effects and the pathology produced by radiations L W BRADY H P HEILMANN F HEUCK M W DONNER Philadelphia Hamburg Stuttgart Baltimore Preface This book represents an attempt to describe the clinical radiobiology of complications arising in different organs after radiotherapy of cancer patients Since by their very nature malignant tumors infiltrate the organ in which they have arisen and the neighboring tissues curative radiotherapy requires the planned irradiation of considerable amounts of healthy but potentially or microscopically involved normal tissues and organs with the full target dose This may lead to early or late normal tissue radiation injury

Normal Tissue Reactions in Radiotherapy and Oncology Wolfgang Dörr, Wolfgang Dörr (Prof. Dr.), Rita Engenhart-Cabillic, Jörg S. Zimmermann, 2002 This volume covers all aspects of side effects in radio oncological treatment of tumors and of combined multi modal therapies Recent developments as well as future perspectives in radiation biology of acute and late responding normal tissues are included Special focus is given to more general treatment effects such as anaemia fatigue and impairment of quality of life and post treatment rehabilitation requirements The book illuminates forensic aspects of radiation therapy and related complications it further exemplifies incidence documentation and clinical management approaches for side effects as well as novel cyto tissue protective strategies Particular features of side effects after stereotactic or radiosurgical treatment of brain tumors unconventional irradiation protocols for head and neck tumors and conformal radiotherapy for prostate tumors are illustrated and followed by discussions of an optimization of physical treatment planning e g by intensity modulation techniques Bringing together medical biological molecular and physical expertise research in the field of radiation induced side effects is a true interdisciplinary effort This publication will therefore be of great value to biologists physicists and physicians of all disciplines involved in radio oncological and multi modal tumor therapy

Radiotherapy of Ocular Disease T. Wiegel, 1997 This book discusses current controversial topics and therapeutic strategies in the treatment of malignant and benign ocular diseases with special emphasis on ocular tumors Written by leading specialists the articles highlight the latest developments in the diagnosis and therapy of retinoblastomas uveal melanomas and malignant lymphomas Further

contributions include such topics as the optimization of dosimetry and design of radioactive eye plaques the effects and side effects of radiotherapy of age related macular degeneration and new approaches for perioperative organ preserving brachytherapy for orbital tumors Readers will be particularly interested in the discussion of possible side effects of photon and proton beam radiotherapy of the eye and their minimization Extensive data from clinical studies evaluating radiotherapy in the management of endocrine orbitopathy are also provided The final part is dedicated to radiotherapy of benign ocular diseases such as pterygium or choroidal and retinal hemangiomas Compiling the most up to date and comprehensive information on ocular radiotherapy currently available and offering an interdisciplinary perspective this book will be appreciated by ophthalmologists radiotherapists and oncologists

Radiotherapy of Intraocular and Orbital Tumors

Robert H. Sagerman, W. Alberti, 2003 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

Medical Management of Radiation Accidents Kenneth S.

Cohen, 2001-03-28 Although radiation accidents are rare and often complex in nature they are of great concern not only to the patient and involved medical staff but to the media and public as well Yet there are few if any comprehensive publications on the medical management of radiation accidents Medical Management of Radiation Accidents provides a complete reference

The Impact of Tumor Biology on Cancer Treatment and Multidisciplinary Strategies Michael Molls, Peter Vaupel, Carsten Nieder, Mitchell Steven Anscher, 2009-03-25 The rapidly changing concepts in radiation oncology with the development of more precise instrumentation for delivery of radiation therapy and a greater emphasis on hypofractionation technologies require a very intimate knowledge of tumor biology and the influence of various biologic factors on dose distribution within the tumor in terms of homogeneity as well as prevention of any late effects 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 effect and host factors make it mandatory to design therapeutic strategies to improve the outcome and to diminish any potential short term or long term risks from the radiation therapy. The authors have developed an outstanding text that deals with these strategies and how they would impact on established and emerging new technologies and treatment. The context of the presentations within a multidisciplinary combined modality therapy program is incredibly important. In this volume various topics are reviewed including tumor genesis, cell proliferation, angiogenesis, 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. **Three-dimensional**

Radiation Treatment H. J. Feldmann, P. Kneschaurek, Michael Molls, 2000-01-01 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.

MRI of the Gastrointestinal Tract Jaap Stoker, 2010-07-15 MRI has become an important tool in the management of patients with diseases of the gastrointestinal tract such as rectal cancer and inflammatory bowel diseases. This book, written by distinguished experts in the field, discusses in detail the technical, practical and clinical aspects of MRI of the gastrointestinal tract. The chapters on technique encompass the most recent developments and address such topics as contrast media, high field strength MRI and perfusion MRI. Subsequently, individual chapters are devoted to the clinical applications of MRI in the different parts of the gastrointestinal tract. Both established applications and new frontiers are considered with the aid of numerous high quality illustrations. By combining chapters dedicated to technical aspects and clinically oriented chapters, this book will prove very instructive for the novice while simultaneously offering experienced practitioners further insights into the value of MRI of the gastrointestinal tract. **Radioprotectors** Edward A. Bump, Kamal

Malaker,1997-12-29 It is essential to minimize damage to normal tissues during radiation therapy and many strategies have been employed in finding the best methods for radioprotection This book integrates chemical biological and clinical perspectives on these strategies and developments providing a comprehensive treatise It emphasizes new concepts in radioprotection aiming to inspire further basic science and clinical progress in radioprotector research Radioprotectors Chemical Biological and Clinical Perspectives includes the following topics Early research on radioprotectors WR 2721 an aminothiols prodrug as a radioprotector New results with naturally occurring thiols Nitroxides as effective radioprotectors in vitro and in vivo Radioprotection observed with radical scavengers or antioxidants Bone marrow radioprotection with cytokines and biological modifiers Multiple mechanisms of altering radiation response by eicosanoids Vascular response to radiation and the importance of vascular damage to normal tissue Modifiers of radiation induced apoptosis Survey of clinical trials with radioprotectors Radiation biologists and oncologists cancer researchers and toxicologists will benefit from the findings discussed and strategies for future research

Late Sequelae in Oncology Jürgen Dunst,Rolf Sauer,2012-12-06 Increasing survival figures and the use of more intense combined treatment regimens in modern oncology have raised the problem of late therapeutic sequelae in long term survivors after cancer Recent scientific approaches to late sequelae concentrate on the evaluation of subclinical changes with sophisticated functional measurements and experimental investigation of the underlying pathophysiological mechanisms The objective of the book is to bring together these recent clinical and experimental data from different medical disciplines to give an overview of the most relevant problems of late sequelae In clinical practice the book may help regarding estimation of risks selection of diagnostic methods and estimation of the prognosis of late sequelae

Oxygen Transport to Tissue XXIV Jeffrey Dunn,Harold M. Swartz,2012-12-06 This volume contains refereed manuscripts prepared from presentations made at the 21st annual meeting of the International Society on Oxygen Transport to Tissue ISOTT The meeting was held in Hanover NH USA at Dartmouth Medical School the 3rd oldest medical school in the USA ISOTT attempts to produce high quality publications on cutting edge topics relating to oxygen in living systems The goal is to allow contributors to contribute original data as with a main stream journal article but also to voice individual opinions and ideas in a more relaxed scientific forum The meeting brought together an international group of scientists who share a common interest in the measurement and role of oxygen in living systems The organizers of ISOTT99 made a special effort to bring together people from industry medicine and basic sciences in order to improve the links in the chain of discovery through to application As a result this volume contains publications on a range of subjects There are contributions from companies on modifiers of oxygen carrying capacity allosteric modifiers of hemoglobin and infusible oxygen carriers or blood substitutes technical reports on oxygen measurement devices including advances in near infrared spectroscopy and imaging oxygen electrodes magnetic resonance spectroscopy and imaging and fluorescence based measurements There are medically related sections on modifying and measuring tumor oxygenation in order to improve

therapy assessment and interpretation of oxygenation in the central nervous system and general issues relating oxygen to pathological conditions

MRI of the Lung Hans-Ulrich Kauczor, 2008-10-28 During the past decade significant developments have been achieved in the field of magnetic resonance imaging MRI enabling MRI to enter the clinical arena of chest imaging Standard protocols can now be implemented on up to date scanners allowing MRI to be used as a first line imaging modality for various lung diseases including cystic fibrosis pulmonary hypertension and even lung cancer The diagnostic benefits stem from the ability of MRI to visualize changes in lung structure while simultaneously imaging different aspects of lung function such as perfusion respiratory motion ventilation and gas exchange On this basis novel quantitative surrogates for lung function can be obtained This book provides a comprehensive overview of how to use MRI for imaging of lung disease Special emphasis is placed on benign diseases requiring regular monitoring given that it is patients with these diseases who derive the greatest benefit from the avoidance of ionizing radiation

Acute and Long-Term Side-Effects of Radiotherapy Wolfgang Hinkelbein, Gregor Bruggmoser, Hermann Frommhold, Michael Wannenmacher, 2012-12-06 Biologists and radiotherapists present their experimental work and clinical data in the field of radiation injuries of normal tissues and organs Particular regard is paid to the relevance of biological mechanisms in clinical situations Principles of radiation damage and combined treatment toxicity in radio chemotherapy are being explained The main topics discussed are the importance of microvasculature time dose and fractionation and factors modifying clinical radioresponse for early and late radiation effects Tissues and organs considered in this volume are mucosa and skin lung and heart bladder and muscle CNS and eye Special problems of pediatric radiotherapy TBI IORT and second malignancies are also mentioned

Functional Preservation and Quality of Life in Head and Neck Radiotherapy Paul M. Harari, Nadine P. Connor, Cai Grau, 2009-06-12 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 field 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 management 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 multiplicity of problems that impact upon the functional preservation and quality of life in head and neck radiation therapy Philadelphia Luther W

MR Angiography of the Body Emanuele Neri, Mirco Cosottini, Davide

Caramella,2009-12-11 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

Inflammatory Diseases of the Brain

Stefan Hähnel,2009-01-24 With contributions by numerous experts

Imaging of the Pancreas Emil J. Balthazar,Alec J. Megibow,Roberto Pozzi Mucelli,2010-04-10 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

Home Parenteral Nutrition, 2nd Edition

Federico Bozzetti,Michael Staun,Andre van Gossum,2014-12-11 Home parenteral nutrition HPN is the intravenous administration of nutrients carried out in the patient s home This book analyses current practices in HPN with a view to inform best practice covering epidemiology of HPN in regions including the UK and Europe USA and Australia its role in the treatment of clinical conditions including gastrointestinal disorders and cancer ethical and legal aspects and patient quality of life

Primary Optic Nerve Sheath

Meningioma Branislav Jeremic,Susanne Pitz,2008-08-19 Optic nerve sheath meningioma ONSM is a rare tumour Cases are usually separated into primary ONSM which arises either intraorbitally or less commonly intracranially and secondary ONSM which arises intracranially and subsequently invades the optic canal and orbit This is the first book to cover all important aspects of the diagnosis and treatment of primary ONSM After a general introduction individual chapters discuss the clinical presentation clinical examination and diagnosis imaging and histology Treatment options are then addressed in detail with special emphasis on external beam radiation therapy and in particular stereotactic fractionated radiation therapy The latter has recently produced consistently good results and is now considered the emerging treatment of choice for the vast majority of patients with primary ONSM This well illustrated book will prove invaluable to all practitioners who encounter primary ONSM in their clinical work

Nasopharyngeal Cancer

Jiade J. Lu,Jay S. Cooper,Anne W. M. Lee,2010-01-13 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

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