

Medical Radiology  
Diagnostic Imaging

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# Multislice-CT of the Abdomen



# Multislice Ct Of The Abdomen Medical Radiology

**Anthony H. Chapman**



## **Multislice Ct Of The Abdomen Medical Radiology:**

**Multislice-CT of the Abdomen** Christoph Johannes Zech, Carlo Bartolozzi, Richard Baron, Maximilian F. Reiser, 2012-04-28 This book provides a lucid summary of modern multislice CT imaging of the abdomen with a focus on the essential imaging findings After a concise technical introduction the most important abdominal diseases are described and illustrated with high quality images Sections are devoted to the liver and biliary system the pancreas and spleen the kidneys and urogenital system and the bowel and peritoneal cavity Throughout key differential diagnostic features are highlighted The editorial team is composed of internationally renowned radiologists from Europe and the United States and all chapters have been written by recognized experts in the topic under consideration Multislice CT of the Abdomen will serve as an excellent reference for radiologists participating in further professional training and will prove an ideal source of information for all who wish to deepen their personal knowledge of the subject      **CT of the Acute Abdomen** Patrice

Taourel, 2011-09-18 CT of the Acute Abdomen provides a comprehensive account of the use of CT in patients with acute abdomen Recent important developments in CT including multislice CT and multiplanar reconstructions receive particular attention CT features are clearly illustrated and pitfalls and differential diagnoses are discussed The first section of the book presents epidemiological and clinical data in acute abdomen The second and third sections document the key CT findings and their significance and discuss the technological background The fourth and fifth sections which form the main body of the book examine in detail the various clinical applications of CT in nontraumatic and traumatic acute abdomen This book will serve as an ideal guide to the performance and interpretation of CT in the setting of the acute abdomen it will be of value to all general and gastrointestinal radiologists as well as emergency room physicians and gastrointestinal surgeons

*Multi-slice CT in Cardiac Imaging* Bernd M. Ohnesorge, 2002 Cardiac diseases and in particular coronary artery disease are the leading cause of death and morbidity in the industrialized countries The development of reliable cardiac imaging techniques is considered a key issue in improving patient care The introduction of multi slice computed tomography in 1998 represented a breakthrough of CT technology in cardiac imaging For the first time widely available CT systems can be used for non invasive angiographic assessment of the heart and the coronary arteries This book presents and discusses the technical concepts the potential spectrum of applications and the future perspectives of multi slice CT in cardiac imaging based on the experience of internationally leading clinical institutions It shows that this new modality has the potential to become an important and robust tool for non invasive and early diagnosis of cardiac diseases thus complementing invasive and non invasive imaging modalities in clinical routine in the near future      Multislice CT Konstantin Nikolaou, Fabian Bamberg, Andrea Laghi, Geoffrey D. Rubin, 2019-08-06 The fourth edition of this well received book offers a comprehensive update on recent developments and trends in the clinical and scientific applications of multislice computed tomography Following an initial section on the most significant current technical aspects and issues detailed information is provided on a

comprehensive range of diagnostic applications Imaging of the head and neck the cardiovascular system the abdomen and the lungs is covered in depth describing the application of multislice CT in a variety of tumors and other pathologies Emerging fields such as pediatric imaging and CT guided interventions are fully addressed and emergency CT is also covered Radiation exposure dual energy imaging contrast enhancement image postprocessing CT perfusion imaging and CT angiography all receive close attention The new edition has been comprehensively revised and complemented by contributions from highly experienced and well known authors who offer diverse perspectives highlighting the possibilities offered by the most modern multidetector CT systems This book will be particularly useful for general users of CT systems who wish to upgrade and enhance not only their machines but also their knowledge

**Radiology and Imaging of the Colon** Anthony H. Chapman, 2012-12-06 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

**Radiology of the Stomach and Duodenum** Alan H. Freeman, E. Sala, 2007-12-22 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

**Emergency Radiology of the Abdomen** Mariano Scaglione, Ulrich Linsenmaier, Gerd Schueller, 2012 Annotation The term acute abdomen refers to a serious often progressive clinical situation that calls for immediate diagnostic and therapeutic action Today diagnosis via imaging has basically replaced the physical examination in the emergency room and the Radiologist has become of primary importance in this setting However close co operation among the various specialists involved is essential for successful patient management and thus the Radiologist needs to have a full understanding of the imaging modalities and technical skills required as well as appropriate clinical knowledge of the disorder in order to manage the condition This book provides a comprehensive review of the multifaceted etiology pathophysiology and clinical presentation of acute abdominal conditions focusing on the imaging features that are relevant to a timely management approach Numerous high quality

images diagrams and easy to read tables are provided *Radiological Imaging of the Small Intestine* N.C.

Gourtsoyiannis, 2002-04-10 Whereas during the past decade endoscopy has become established as the leading means of diagnosis and management of diseases affecting the esophagus stomach and large bowel radiology has retained its pre eminence for the clinical study and evaluation of the small bowel This book provides unique coverage of all current radiological techniques used to study the small bowel including not only barium studies and angiography but also cross sectional methods such as ultrasound and computer tomography as well as nuclear medicine Emerging techniques such as magnetic resonance imaging are given close consideration and interventional procedures are dealt with fully Following an introduction on anatomy physiology and pathology pertinent to radiology the book describes in great detail common and less common congenital and development anomalies trauma infectious and inflammatory conditions and tumors The radiological accounts are illustrated by unique color photographs of pathological specimens It is important for all professionals involved in the management of patients with small bowel disease to be critically informed about the specific advantages as well as the limitations of the various modern imaging techniques now employed for the in vivo morphological evaluation of the small bowel This comprehensive book provides a timely update of our knowledge in this field and is a welcome addition to our series Medical Radiology which aims to provide exhaustive coverage of modern diagnostic radiology It will be of great interest for general and abdominal radiologists gastroenterologists and abdominal surgeons **Percutaneous Tumor**

**Ablation in Medical Radiology** Thomas J. Vogl, Thomas Helmberger, Martin G. Mack, Maximilian F Reiser, 2007-12-23 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 Radiological Imaging of the Ureter Francis

Joffre, Philippe Otal, Michel Soulie, 2012-12-06 Owing to its central position in the retroperitoneal and pelvic cavity the ureter is rapidly affected by a variety of pathological processes Furthermore any disease involving the ureter can also have an effect on the kidneys For several decades the diagnosis of diseases affecting the ureter was based on intravenous excretory urography and techniques of direct opacification However the diagnostic strategy has been extensively modified by the advent of helical computed tomography and magnetic resonance imaging This book the first to focus specifically on ureteral imaging covers both the new and the traditional techniques Their use in the variety of scenarios involving ureteral disease is clearly elucidated with the aid of high quality informative images Imaging and Intervention in Abdominal Trauma Robert F. Dondelinger, 2003-11-13 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     Visual grading evaluation of reconstruction methods and dose optimisation in abdominal Computed Tomography Bharti Kataria, 2019-10-15 Since its introduction in the 1970 s CT has emerged as a modality of choice because of its high sensitivity in producing accurate diagnostic images A third of all Computed Tomography CT examinations are abdominal CTs which deliver one of the highest doses among common examinations An increase in the number of CT examinations has raised concerns about the negative effects of ionising radiation as the dose is cumulative over the life span of the individual Image quality in CT is closely related to the radiation dose so that a certain dose with an associated small but not negligible risk is a prerequisite for high image quality Typically dose reduction in CT results in higher noise and a decrease in low contrast resolution which can be detrimental to the image quality produced New technology presents a wide range of dose reduction strategies the latest being iterative reconstruction IR The aim of this thesis was to evaluate two different classes of iterative reconstruction algorithms statistical SAFIRE and model based ADMIRE as well as to explore the diagnostic value of a low dose abdominal CT for optimisation purposes This thesis included a total of 140 human subjects in four image quality evaluation studies three of which were prospective studies Papers I II and IV and one retrospective study Paper III Visual grading experiments to determine the potential dose reductions were performed with pairwise comparison of image quality in the same patient at different tube loads dose and reconstructed with Filtered back projection FBP and SAFIRE strength 1 in a low dose abdominal CT Paper I and FBP and ADMIRE strengths 3 and 5 in a standard dose abdominal CT Paper II Paper IV evaluated the impact of slice thicknesses in CT images reconstructed with ADMIRE strengths 3 and 5 when comparing multiplanar reconstruction MPR formatted images in a standard dose abdominal CT Paper III on the other hand was an absolute assessment of image quality and pathology between the three phases of a CT Urography CTU protocol to explore the diagnostic value of low dose abdominal CT The anonymised images were displayed in random order and image quality was assessed by a group of radiologists using image quality criteria from the European guidelines of quality criteria for CT The responses from the reviewer assessment were analysed statistically with ordinal logistic regression i e Visual Grading Regression VGR Results in Paper I show that a small dose reduction 5.9 % was possible using SAFIRE strength 1 and indicated the need for further research to evaluate the dose reduction potential of higher strengths of the algorithm In Paper II a 30% dose reduction was possible without change in ADMIRE algorithm strength as no improvement in image quality was observed between tube loads 98 and 140 mAs When comparing tube loads 42 and 98 mAs further dose reduction was possible with ADMIRE strength 3 22.47% However for images reconstructed with ADMIRE strength 5 a dose reduction of 34.74% was possible for some but not all image criteria Image quality in low contrast objects such as the liver parenchyma was affected and a decline in diagnostic confidence was

observed Paper IV showed potential dose reductions are possible with increasing slice thickness from 1 mm to 2 mm 24 35% and 1 mm to 3mm 25 41% ADMIRE strength 3 continued to provide diagnostically acceptable images with possible dose reductions for all image criteria assessed Despite objective evaluations showing a decrease in noise and an increase in contrast to noise ratio ADMIRE strength 5 had diverse effects on the five image criteria depending on slice thickness and further dose reductions were limited to certain image criteria The findings do not support a general recommendation to replace ADMIRE3 with ADMIRE5 in clinical abdominal CT protocols Paper III studied another aspect of optimisation and results show that visualisation of renal anatomy was as expected in favour of the post contrast phases when compared to the native phase Assessment of pathology showed no significant differences between the three phases Significantly higher diagnostic certainty for renal anatomy was observed for the post contrast phases when compared to the native phase Significantly high certainty scores were also seen for the nephrographic phase for incidental findings The conclusion is that a low dose series seems to be sufficient as a first line modality in certain patient groups This thesis clinically evaluated the effect of IR in abdominal CT imaging and estimated potential dose reductions The important conclusion from papers I II and IV is that IR improves image quality in abdominal CT allowing for some dose reductions However the clinical utility of the highest strength of the algorithm is limited to certain criteria The results can be used to optimise the clinical abdominal CT protocol The conclusion from paper III may increase clinical awareness of the value of the low dose abdominal protocol when choosing an imaging method for certain patient groups who are more sensitive to radiation

Datortomografi DT anvnds i allt st rre omfattning vid bilddiagnostik och ger en viss str ldos till patienten DT r en viktig snabb och patientv nlig unders kningsteknik En f rdel med denna teknik r att bildmaterialet kan rekonstrueras i olika format f r att sk dligg ra anatomin p b stas tt beroende p vilken fr gest lning som ska besvaras Joniserande str lning fr n dessa unders kningar anses ka risken f r negativa effekter ven om risken f r den enskilde patient r mycket liten Antalet datortomografiunders kningar kar fr n r till r vilket kan leda till kade str ldoser tillbefolkningen Optimering av unders kningsteknik och val av unders kning f r att minska negativa effekter av r ntgenstr lning r d rf r n dv ndig Det vergripande m let med avhandlingen var att utv rdera bildkvalitetvid en DT unders kning av buken d dessa medf r en av de h gstastr ldoserna bland de vanliga r ntgenunders kningarna att kvantifiera jlig str ldosminskning med hj lp av iterativa rekonstruktionsalgoritmer och att utv rdera diagnostiska v rdet av l gdosunders kningsteknik vid DT buk Av de fyra delstudierna var delarbeten I II och IV prospektiva och delarbete III retrospektivt F r de prospektiva studierna samlades bildmaterial in vid en kliniskber ttigad unders kning av l gdos DT av buken delarbetet I eller standarddos DT av buken delarbetet II och IV Bilder rekonstruerades meden standard bildrekonstruktionsalgoritm filtrerad terprojektion FBP och med styrka 1 av den iterativa algoritmen SAFIRE delarbetet I I delarbeten II och IV gjordes bildrekonstruktioner med FBP och med styrka 3 och 5 av den iterativa algoritmen ADMIRE Aidentifierade bildmaterialf r varje patient visades parvis i slumpm ssig ordning f r ett antal granskare och bildkvaliteten

bed mdes med hj lp av europeiska bildkriterier I den retrospektiva studien delarbete III h mtades bildmaterialet fr n utf rda DT urografiunders kningar fr n bildarkivet F r varje unders kning visades bilder fr n varje fas i DT urografiunders kningen separat i slumpm ssig ordning F r samtliga delarbeten h mtades bildkriteriernafr n European Guidelines of Quality Criteria for CT och modifierades f r att passa till varje studie Granskarnas bed mning analyserades med ordinal logistisk regression s kallad visual grading regression VGR Resultat fr n delarbetet I visade att det fanns en signifikant inverkan av dos p

**Radiological Imaging of the Digestive Tract in Infants and Children** Annick S. Devos,Johan G.

Blickman,2007-12-08 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 *CT of the*

*Peritoneum* Armando Rossi,Giorgio Rossi,2012-12-06 I have not embarked on the foreword to this scientific monograph by Armando and Gior gio ROSSI in the expectation that it will be an easy task because these two authors are the last remaining members of a family that has left its mark in the field of radiology in our country therefore the writer s enthusiasm and detachment could be jeopardized by mem ories of his own teachers and elders and the respect he still feels towards them The line stretches from Armando Rossi Sr a pioneer in the field of radiology in Italy a scientist and a versatile teacher a student of Beclere and Busi to Lucio Rossi an eminent teacher a learned man and a gentleman An official biographyofArmando Rossi shows that in his last years his wide didactic interests were directed towards his own family leading him to devote his attention to those of his grandchildren who were then getting ready to embrace the medical profession **Intracranial**

**Vascular Malformations and Aneurysms** Michael Forsting,Isabel Wanke,2008-11-04 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 Individual chapters are devoted to developmental venous malformations cavernomas and capillary telangiectasias pial arteriovenous malformations dural arteriovenous malformations and intracranial aneurysms Each chapter is subdivided into four principal sections on pathology clinical presentation diagnostic imaging and therapy ensuring a standardized approach throughout All chapters in this 2nd revised edition of Intracranial Vascular Malformations and Aneurysms have been thoroughly updated The book is richly illustrated with numerous informative CT MR and DSA images including high end 7 Tesla MR images *Textbook of Radiology And Imaging, Volume 1- E-Book* Bharat Aggarwal,2023-08-31 This book is a classic guide for trainees and practitioners with a comprehensive overhaul this book successfully bridges the gap between advancing technology terminology and the emergence of new diseases With its all encompassing approach this book serves as the ultimate resource for radiology professionals eliminating the need for multiple texts on various systems and recent updates Trainees



and practitioners alike will find immense value as it caters to both skill enhancement and exam preparation for residents For trainees the book provides essential tools to elevate their expertise as it covers various topics Meanwhile community practitioners will greatly benefit from evidence based guidelines and protocols presented in the book The new edition of Sutton retains the overall format presentation style and comprehensive coverage of the previous editions Significant advances in imaging techniques and newer applications of different modalities have been incorporated in all sections Radiology lexicons and updated classification systems for various diseases have been included There is emphasis on differential diagnosis appropriateness criteria and disease management Salient features have been highlighted as imaging pearls and teaching points New sections for Imaging Physics Principles of Imaging Emergency Radiology Pediatric Radiology and Nuclear Medicine have been added to make the book more comprehensive Crucial topics on patient safety quality assurance and structured reporting have been included to help radiologists become processes driven and ensure better patient care Chapters on Information technology and Artificial intelligence introduce residents to the digital environment that we live in and its impact on day to day practice A section on Interventional Radiology has been included to enable residents to get a deeper understanding of this subspecialty and explore its scope in modern medicine This edition of Sutton is aimed at presenting an exhaustive teaching and reference text for radiologists and other clinical specialists

*Parallel Imaging in Clinical MR Applications* Stefan O. Schönberg, Olaf Dietrich, Maximilian F Reiser, 2007-01-11 This book presents the first in depth introduction to parallel imaging techniques and in particular to the application of parallel imaging in clinical MRI It will provide readers with a broader understanding of the fundamental principles of parallel imaging and of the advantages and disadvantages of specific MR protocols in clinical applications in all parts of the body at 1.5 and 3 Tesla

**Liver Radioembolization with 90Y Microspheres** José Ignacio Bilbao, Maximilian F Reiser, 2009-10-22 Percutaneous tumor ablation techniques are now well established in the curative or palliative treatment of patients with primary or secondary malignant tumors of the liver Radioembolization is a newly developed technique which takes advantage of the synergy of endovascular embolization and brachytherapy in the treatment of cancer It offers new perspectives for achieving local control of tumor growth with a low rate of complications This book is the result of an intensive and successful collaboration between two leading European centers in interventional radiological oncology which have rapidly acquired extensive experience with this new technique over the past few years I am very much indebted to the editors Professor Bilbao and Professor M Reiser for their superb efforts in putting together the concept and outline of this volume as well as for the very short preparation time needed for its final publication I thank them and the collaborators from their team who actively participated in the compilation of the various chapters for their excellent work This outstanding volume covers all basic and clinical aspects of radioembolization of the liver very comprehensively Thus it offers a complete practical guide to interventional radiologists wishing to become familiar with this highly interesting approach to the treatment of malignant liver

tumors It will undoubtedly be of great interest also to therapeutic radiologists medical oncologists and oncological surgeons since it will enable them to better design the optimal treatment strategy for their patients      **Contrast Media in**

**Ultrasonography** Emilio Quaia, 2005-10-28 This book provides a comprehensive account of the physical basis and the clinical applications of microbubble based contrast agents The principles underlying the use of specialized contrast specific imaging techniques and the examination methodology are clearly described The different clinical applications of microbubble based agents are extensively explained with the aid of numerous high quality illustrations many of which are in color In addition research and therapeutic perspectives are addressed All of the chapters are written by recognized experts in the field ensuring that this volume will be of great value to everyone who has an interest in microbubble based contrast agents from physicists and researchers to clinical radiologists      **Advances in Radiation Oncology in Lung Cancer** Branislav

Jeremic, 2005-11-10 Although decades of laboratory and clinical research have led to incremental improvement in treatment outcome lung cancer remains one of the most deadly diseases This volume is unique in being devoted solely to the radiation oncology of lung cancer and will be of great value to all who are involved in the diagnosis and treatment of the disease Both non small cell and small cell lung cancer are considered in detail Current state of the art treatment strategies and novel approaches that promise further improvements in outcome are explained and evaluated with the aid of high quality illustrations Treatment related toxicity is discussed and further individual chapters focus on topics such as quality of life studies prognostic factors and pitfalls in the design and analysis of clinical trials

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