



# Multislice Ct

**Lingjun Ying**

## **Multislice Ct:**

Protocols for Multislice CT Roland Bruening,Thomas Flohr,2013-04-17 Multislice technology has made it possible to investigate large sections of the human body in a very short time The 4 and 16 row systems currently available necessitate the use of new protocols which are proposed herein In a convenient double page layout this book provides structured information on all routine protocols to be used for multislice CT The volume covers all investigations of the brain neck lung and chest abdomen and the periphery as well as special protocols for the heart for CT angiography and for CT guided interventions Each protocol is displayed en bloc enabling rapid appreciation of the scanner settings and the indications

*Multislice CT* M.F. Reiser,M. Takahashi,M. Modic,R. Bruening,2012-12-06 The introduction of multidetector spiral CT into clinical practice is without any doubt one of the most important technical developments in the field of computed tomography in general and spiral CT in particular in recent years Indeed multislice CT technology based on the spiral CT technique invented by W Kalender almost 20 years ago has opened immense and totally new perspectives for better utilisation of contrast medium during the examination for optimal multiplanar reconstruction and for increased patient throughput The potential applications more specifically in the area of CT angiography of the brain and the heart and vessels are most interesting and definitely contribute to better patient care as well as to more efficient utilisation of equipment These exciting new clinical applications explain the keen desire of radiologists and other clinicians to hear and learn more about the first results obtained with this new equipment in daily clinical practice This book will satisfy their needs Professor Maximilian F Reiser was among the first to install multidetector CT in his department in Munich and to gain experience with this new radiological tool He was also able to organise a very successful and well attended international meeting on this hot topic as early as z 2000 in Starnberg Germany Multislice CT Maximilian Reiser,2004 This second revised edition of Multislice CT provides a comprehensive overview of the clinical application of this exciting technique following the introduction of the newest generation of multi detector row CT scanners An initial section considers technical aspects and issues including those relating to radiation dose and use of contrast material Thereafter the focus is on the diagnostic applications of multislice CT in each of the most important anatomical regions Examinations of the abdomen head and neck brain chest and blood vessels are individually described and illustrated due attention being paid to the special scanner settings necessary in each case Practical guidelines to the performance of a successful investigation are provided and each chapter also reviews the most recently published literature This comprehensive book will be an invaluable asset to radiologists at all levels *Spiral and Multislice Computed Tomography of the Body* Mathias Prokop,Michael Galanski,2003 Whole body computed tomography has developed at a rapid pace in the past decade spurred on by the introduction of spiral and multislice scanning These new technologies have not only improved diagnostic accuracy but also made new applications possible that were previously accessible only through more complex or invasive techniques This new book expertly fills a gap

in the literature by combining the practically relevant technical background with the clinical information required for correctly performing and interpreting CT examinations The book presents the state of the art capabilities and requirements of CT as a key diagnostic and interventional tool with special emphasis on the role of spiral and multi slice CT You will find a thorough introduction to CT technology from scanner design to 3D image reconstruction useful practical hints on how to optimize your examination protocols and how to keep the radiation exposure of your patients to a minimum as well as an extensive clinical section in which symptoms pathology and CT morphology are integrated to provide you with the basis for subtle interpretation of CT findings using the most modern CT techniques Highlights include Full coverage of single slice 4 slice and 16 slice scanning techniques Introduction to extended CT applications including cardiac CT CT fluoroscopy and 3D image processing Organ specific protocols for scanning and contrast administration Practical guidelines for maximizing image quality and minimizing radiation exposure Useful suggestions for image interpretation and for avoiding pitfalls and errors Convenient format by organ system and disease entity Full discussion of organ specific pathology and CT morphology CT indications integrated with other imaging modalities At a time when CT examinations are becoming more technically demanding and complex with an increasing number of scan parameters and advances in 3D reconstructions this book is an essential professional tool Experienced practitioners will find their diagnostic and technical skills improved by reading the book and beginners will enjoy the clear systematic approach that will help them use the technique with confidence

Multislice CT Maximilian F Reiser,Christoph R. Becker,Konstantin Nikolaou,Gary Glazer,2008-10-20 With contributions by numerous experts *Protocols for Multislice CT* R. Brüning,A. Küttner,T. Flohr,2006-01-16 This book provides structured up to date information on all routine protocols used for multislice multidetector row CT The volume contains a detailed technical section and covers the prevailing investigations of the brain neck lungs and chest abdomen with parenchymal organs and gastrointestinal tract the musculoskeletal system and CTA as well as dedicated protocols for the heart Separate chapters address the how to of CT guided interventions such as punctures drainages and therapeutic approaches Each protocol is displayed en bloc enabling rapid appreciation of indications and the necessary scanner settings The second edition includes contributions by renowned experts in the field who not only provide their clinical experience on each topic but also give guidelines for indications workflow postprocessing and reconstruction algorithms **Multislice CT** Claus D. Claussen,E.K. Fishman,B. Marincek,M. Reiser,2012-12-06 The 6th International SOMATOM CT Scientific User Conference was held in Tübingen on September 27 and 28 2002 under the auspices of the Eberhard Karls University Tübingen the University Hospital Zurich the Ludwig Maximilians University Munich and the Johns Hopkins University Baltimore Siemens AG Medical Solutions Forchheim was again very gracious in sponsoring the course and the associated events There have been remarkable achievements in CT technology workflow management and applications since the last SOMATOM user conference in Zurich in June 2000 The next generation of multidetector row CT now capable of acquiring 16 slices during a

single rotation has been introduced The meeting in Tiibingen was the very first conference where research groups from allover the world were presenting their very first results with this new technology in the various fields of CT imaging It became obvious that these new technical possi bilities will again have significant impact on the clinical use of CT Tiibingen offered a special and inspiring atmosphere for the meeting an atmosphere which has been preserved throughout time For more than 500 years the university one of the oldest in Germany has been a source for new ideas being pursued by famous philosophers poets and scientists such as H6lderlin Morike Hegel Schelling Kepler Butenandt and many more **Multislice**

**CT: A Practical Guide** B. Marincek,P.R. Ros,M. Reiser,M.E. Baker,2000-11-24 Until recently CT scanner performance was limited by a series of compromises With single detector scanners one cannot select thin collimation and still maintain the required extent of volumetric coverage Slow scans cause motion artifacts that impair image quality The introduction of multidetector CT technology however has revolutionized the field Currently multidetector multislice CT scanners acquire up to four channels of data from interweaving spirals The minimum gantry rotation period is as low as half of a second This increased scan speed allows for thinner collimation and thus higher longitudinal or z axis resolution in comparison with single detector CT The improved image quality with multidetector technology leads to new applications of CT particularly in cardiac vascular and abdominal imaging On going clinical studies are evaluating the suitability of this new imaging tool for non invasive screening and diagnosis of coronary artery disease A particular advantage to the increased scan speed in vascular imaging is the ability to cut intra venous contrast dosage and still maintain peak enhancement CT throughout the entire acquisition Thin section multiphasic acquisition during optimal arterial phase and venous phase enhan cement significantly improves the accuracy for small lesion and vessel detection and enhances overall classification of abdominal neoplasms On the other hand the increasingly large volume data sets force to new ways of looking at presenting storing and trans ferring images Networking and two and three dimensional data processing are the key words **Multislice CT: A Practical Guide** B. Marincek,P.R. Ros,M. Reiser,M.E. Baker,2012-12-06 Until recently CT scanner performance was limited by a series of compromises With single detector scanners one cannot select thin collimation and still maintain the required extent of volumetric coverage Slow scans cause motion artifacts that impair image quality The introduction of multidetector CT technology however has revolutionized the field Currently multidetector multislice CT scanners acquire up to four channels of data from interweaving spirals The minimum gantry rotation period is as low as half of a second This increased scan speed allows for thinner collimation and thus higher longitudinal or z axis resolution in comparison with single detector CT The improved image quality with multidetector technology leads to new applications of CT particularly in cardiac vascular and abdominal imaging On going clinical studies are evaluating the suitability of this new imaging tool for non invasive screening and diagnosis of coronary artery disease A particular advantage to the increased scan speed in vascular imaging is the ability to cut intra venous contrast dosage and still maintain peak enhancement CT throughout the entire acquisition Thin

section multiphasic acquisition during optimal arterial phase and venous phase enhancement significantly improves the accuracy for small lesion and vessel detection and enhances overall classification of abdominal neoplasms. On the other hand the increasingly large volume data sets force to new ways of looking at presenting, storing and transmitting images.

Networking and two and three dimensional data processing are the key words **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.

*Multislice CT* Friedrich Knollmann, Fergus Coakley, 2006 A team of international experts provides a hands on evidence based overview of the latest clinical applications of multislice computed tomography. Each chapter begins with standard examination protocols for a particular body area and then provides detailed explanations of the key parameter choices for each scanner type with supportive data from the available literature wherever possible. The result is today's state of the art definitive guide to the cost effective use of this revolutionary new technology. Offers a complete overview of the most important applications of multislice computed tomography for all body areas. Organizes information in a head to toe format making guidance quick and easy to find. Features abundantly illustrated guidance with many color 3 D images. Presents up to date coverage based upon the most recent technology from 4 row to 64 row CT systems. Includes the latest information on contrast agents and equipment protocols. Also includes *Multislice CT Angiography*, the most advanced technique in vascular imaging. Covers the latest interventional procedures guided by MSCT.

*Spiral and Multislice Computed Tomography of the Body* Mathias Prokop, Michael Galanski, 2011-01-01 All you need to know to maximize the diagnostic capabilities of CT. Whole body computed tomography has developed at a rapid pace in the past decade spurred on by the introduction of spiral and multislice scanning. These new technologies have not only improved diagnostic accuracy but also made new applications possible that were previously accessible only through more complex or invasive techniques. This new book expertly fills a gap in the literature by combining the practically relevant technical background with the clinical information required for correctly performing and interpreting CT examinations. The book presents the state of the art capabilities and requirements of CT as a key diagnostic and interventional tool with special emphasis on the role of spiral and multi slice CT. You will find a thorough introduction to CT technology from scanner design

to 3D image reconstruction useful practical hints on how to optimize your examination protocols and how to keep the radiation exposure of your patients to a minimum as well as an extensive clinical section in which symptoms pathology and CT morphology are integrated to provide you with the basis for subtle interpretation of CT findings using the most modern CT techniques Highlights include Full coverage of single slice 4 slice and 16 slice scanning techniques Introduction to extended CT applications including cardiac CT CT fluoroscopy and 3D image processing Organ specific protocols for scanning and contrast administration Practical guidelines for maximizing image quality and minimizing radiation exposure Useful suggestions for image interpretation and for avoiding pitfalls and errors Convenient format by organ system and disease entity Full discussion of organ specific pathology and CT morphology CT indications integrated with other imaging modalities At a time when CT examinations are becoming more technically demanding and complex with an increasing number of scan parameters and advances in 3D reconstructions this book is an essential professional tool Experienced practitioners will find their diagnostic and technical skills improved by reading the book and beginners will enjoy the clear systematic approach that will help them use the technique with confidence **Multislice Computed Tomography** Paul M. Silverman,2002 From the author of our best selling handbook on helical spiral CT comes a brand new indispensable practical guide to the next generation of technology multislice or multidetector CT Dr Silverman and his renowned colleagues present detailed easy to follow scanning protocols for all areas of the body for pediatric examinations and for three dimensional imaging and explain the principles behind the protocols Multislice CT scanning protocols for specific clinical indications are presented in the same user friendly outline format as in Dr Silverman s other handbook Representative images appear on the page opposite each protocol The author s terminology allows the protocols to be used with equipment from any manufacturer

***Multislice CT*** Claus D Claussen,E. K. Fishman,B. Marincek,2003-11-27 ***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 ***Objective***

***Performance Evaluation Methods Adapted to Helical and Multislice CT Scanners*** David C. Ellerbusch,2006

***Multislice CT (2009)*** , ***Endoscopic Sinus Surgery*** Peter-John Wormald,2011-01-01 Winner of the prestigious First Prize in ENT in 2005 from the British Medical Association first edition The second edition of this operative manual provides expanded coverage of the complex anatomy and the current surgical approaches to the paranasal sinuses and skull base It provides practical step by step instruction on using CT scans to reconstruct three dimensional images of surgical anatomy

enabling the surgeon to develop detailed surgical plans for each clinical situation. The accompanying DVD is greatly expanded from the first edition's CD ROM with 30 additional operative videos plus new problem based exercises. The operative videos enable practitioners to visualize the surgical concepts described and illustrated in the text. Case exercises provide the opportunity to apply knowledge learned to perform three dimensional reconstructions a valuable tool for self assessment. Highlights of the second edition: Extensive presentation of all the anatomical variations and surgical approaches to the sinuses, paranasal regions and posterior, middle and anterior cranial fossae. Straightforward outlines for approaching the frontal sinus and frontal recess, maxillary sinus trephination, dacryocystorhinostomy surgery, cerebrospinal fluid leak closure, orbital and optic nerve decompression and Vidian neurectomy. 830 diagrams, illustrations and images demonstrating anatomy and surgical techniques. Detailed coverage of endoscopic surgical approaches to tumors of the sinuses and in the intracranial cavity. Discussion of the value and importance of axial CT for determining drainage pathways. Essential for ENT surgeons, otolaryngologists and residents, the book equips readers with all the information necessary for handling the range of anatomical variations that may be encountered and selecting the best approach for each.

### **Head, Face, and Neck**

**Trauma** Michael G. Stewart, 2005. Clear guidelines for diagnosis and management. Thieme congratulates Michael G Stewart on being chosen by New York magazine for its prestigious Best Doctors 2018 list. Here is the first comprehensive overview of head and neck trauma for the otolaryngologist and head and neck surgeon with important implications for the oral maxillofacial and plastic surgeon as well. From technological improvements in fracture plating to advances in surgical approaches and three dimensional imaging, this book covers key topics the treating physician must know. Special Features: Emphasis on the multidisciplinary nature of head and neck trauma with contributions from experts in otolaryngology, oral and maxillofacial surgery, plastic and reconstructive surgery, ophthalmology, thoracic surgery, general surgery and radiology. Evaluation and management of challenging eye trauma injuries. New facial reconstruction and plating techniques. Management of common dental and dentoalveolar injuries. Foundation building sections on the complex anatomy of the ear, temporal bone and facial nerve. Multiple instructive diagnostic images. This is an essential book for all trauma specialists and an excellent learning tool for the resident or fellow in training. Complete and concise, it puts the clinical facts at your fingertips for managing any type of head and neck trauma, soft tissue, bony, blunt or penetrating nerve, otologic, ocular or vascular. Your professional reference collection is not complete without it.

### **Four-dimensional CT Methods Using**

**Low-pitch Multi-slice Helical Acquisition** Nicole Marie Wink, 2006

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