

Contents

| | |
|---|----|
| Multi Row: Technical Concepts | 1 |
| 1 Multislice Scanning with the Somatom Volume Zoom: An Optimized Design for Volume Scanning T. FLOHR, K. KLINGENBECK-REGN, B. OHNESORGE, S. SCHALLER | 3 |
| 2 Multidetector CT: What to Do with All the Data? R. LOOSE, M. OLDENDORF, J. T. DEICHEN, M. WUCHERER | 9 |
| 3 Visualization of Large Image Data Volumes Using PACS and Advanced Postprocessing Methods S. PEER, R. WEGENKITTL, R. PEER, W. JASCHKE | 13 |
| Abdomen | 21 |
| 4 Multi-detector CT of the Kidney U. G. MUELLER-LISSE, U. L. MUELLER-LISSE, R. OBERNEDER | 23 |
| 5 Biphasic Contrast-Enhanced Multislice Helical CT of the Liver M. FUNKE, L. KOPKA, E. GRABBE | 35 |
| 6 Multislice CT in the Diagnosis of Pancreatic Tumors U. BAUM, M. LELL, A. NÖMAYR, T. BRUNNER, E. WENKEL, H. GREESS, M. DOBRITZ, W.A. BAUTZ | 37 |
| GI-Tract | 47 |
| 7 New Developments in Imaging the Small Bowel with Multislice Computed Tomography and Negative Contrast Medium G.F. RUST, A. SPIEKERMANN, F. DAUM, U. J. SCHOEPE, N. HOLZKNECHT, C. MATZ, A. STÄBLER, M. F. REISER | 49 |
| 8 Multislice CT in the Evaluation of Colorectal Cancer C. KULINNA, J. SCHEIDLER, R. BRUENING, M.F. REISER | 61 |
| 9 Multislice Spiral CT in Preoperative Staging of Rectal Carcinoma A. NÖMAYR, U. BAUM, M. LELL, H. GREESS, M. DOBRITZ, W.A. BAUTZ | 69 |
| 10 CT Colonography (Virtual Colonoscopy) with Multidetector Row Computed Tomography – Preliminary Results T. GLUECKER, P. JORNOD, S. PROIETTI, W. KELLER, A. BLUM, G. DORTA, R. MEULI, P. SCHNYDER | 77 |
| Head and Neck | 83 |
| 11 Temporal Bone Imaging with Multislice CT L. JÄGER | 85 |

| | |
|--|------------|
| 12 Staging of Laryngeal Cancer Using Multislice CT R. BRUENING, C. STURM, B. WOLLENBERG, M. F. REISER | 93 |
| 13 Morphologic and Functional Assessment of Head and Neck Tumors with Multislice CT M. LELL, U. BAUM, A. NÖMAYR, H. GREESS, M. KOESTER, C. PUTZENLECHNER, W.A. BAUTZ | 99 |
| Neuroradiology | 107 |
| 14 Usefulness of Isotropic Volumetric Data in Neuroradiological Diagnosis K. KATADA, N. FUJII, Y. OGURA, M. HAYAKAWA, S. KOGA | 109 |
| Cardiac Applications | 119 |
| 15 Technical Aspects and Applications of Fast Multislice Cardiac CT B. OHNESORGE, T. FLOHR, C. BECKER, A. KNEZ, U.J. SCHÖPF, K. KLINGENBECK-REGN, R. BRUENING, M.F. REISER | 121 |
| 16 Cardiac MDCT Using Multisector Reconstruction Algorithm – ECG-Gated Retrospective Reconstruction J. HORIGUCHI, T. NAKANISHI, K. ITO | 131 |
| 17 Assessment of Coronary Atherosclerosis in MD-CT C.R. BECKER, U.J. SCHOEPF, M.F. REISER | 139 |
| Chest | 145 |
| 18 Multislice CT in the Detection of Pulmonary Embolism U.J. SCHOEPF | 147 |
| 19 Primary Chest Film Reading on Coronal and Sagittal MPRs R. EIBEL | 155 |
| Interventional | 165 |
| 20 Role of Real-Time CT (CT Fluoroscopy) in Multislice Helical Scanning K. KATADA, H. ANNO, R. KATO, S. KOGA | 167 |
| CTA | 173 |
| 21 CTA of the Aorta and Its Major Branches Y. NAKAYAMA, Y. YAMASHITA, M. TAKAHASHI | 175 |
| 22 CT Portography by Multidetector Row CT Y. NAKAYAMA, Y. YAMASHITA, M. TAKAHASHI | 187 |
| 23 Multislice Helical CT in Acute Disease of the Aorta M. FUNKE, C. MÜLLER, E. GRABBE | 197 |
| Subject Index | 201 |
| List of Contributors | 205 |