



Cardiac CT

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Responsibility: Marc Dewey

Edition: Second edition

Place of Publication: Berlin

Publisher: Springer

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Physical Description: 1 online resource (xiii, 498 pages : illustrations)

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Subjects (MeSH): Cardiovascular Diseases - diagnostic imaging
Tomography, Emission-Computed

Subjects (LCSH): Cardiovascular system - Tomography

Abstract: Cardiac computed tomography (CT) has become a highly accurate diagnostic modality that continues to attract increasing attention. This extensively illustrated book aims to assist the reader in integrating cardiac CT into daily clinical practice, while also reviewing its current technical status and applications. Clear guidance is provided on the performance and interpretation of imaging using the latest technology, which offers greater coverage, better spatial resolution, and faster imaging while also providing functional information about cardiac diseases. The specific features of scanners from all four main vendors, including those that have only recently become available, are presented. Among the wide range of applications and issues discussed are coronary calcium scoring, coronary artery bypass grafts, stents, and anomalies, cardiac valves and function, congenital and acquired heart disease, and radiation exposure. Upcoming clinical uses of cardiac CT, such as hybrid imaging, preparation and follow-up after valve replacement, electrophysiology applications, myocardial perfusion and fractional flow reserve assessment, and plaque imaging, are also explored.

Contents: Introduction – Technical and Personnel Requirements – Anatomy – Cardiac CT in Clinical Practice – Clinical Indications – Patient Preparation – Physics Background and Radiation Exposure – Examination and Reconstruction – Examinations on Different CT Scanners – Reading and Reporting – Coronary Artery Calcium – Coronary Artery Bypass Grafts – Coronary Artery Stents – Coronary Artery Plaques – Cardiac Function – Cardiac Valves – Transcatheter Aortic Valve Interventions – Pulmonic Valve Implantation, Mitral Valve Repair, and Left Atrial Appendage Closure – Myocardial Perfusion and Fractional Flow Reserve – Hybrid Imaging – Electrophysiology Interventions – Coronary Artery Anomalies – Congenital and Acquired Heart Disease – Typical Clinical Examples – Results of Clinical Studies - Outlook.

Format: e-Book

Location: Online



Cardiovascular OCT Imaging

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Available Online: View e-Book

Other Authors: Jang, Ik-Kyung

Responsibility: Ik-Kyung Jang, editor

Alternate Title: Cardiovascular Optical Coherence Tomography Imaging

Place of Publication: Cham, Switzerland

Publisher: Springer

Date of Publication: c2015

Physical Description: 1 online resource (xi, 222 pages)

ISBN: 9783319108018 (electronic bk.)
9783319108001

Subjects (MeSH): Acute Coronary Syndrome - diagnosis
Coronary Artery Disease - diagnosis
Endovascular Procedures
Tomography, Optical Coherence

Subjects (LCSH): Cardiovascular system - Tomography
Cardiovascular system - Diseases - Tomography
Optical coherence tomography

Contents: 1. The Development of OCT – 2. Physics of Cardiovascular OCT – 3. Histology Validation of OCT Images – 4. Basic Interpretation Skills – 5. Intravascular OCT Imaging Artifacts – 6. Clinical Presentations and Coronary Plaque Characteristics – 7. Insight into Pathogenesis of Acute Coronary Syndrome – 8. Spontaneous Coronary Artery Dissection – 9. Early Stent Evaluation – 10. Late Stent Change – 11. Stent Thrombosis - - 12. Neoatherosclerosis – 13. Bioabsorbable Stent – 14. Consensus Documents – 15. Future Development.

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Location: Online