



Cardiovascular magnetic resonance /

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Oxford University Press,

2010

Handbooks and manuals.

Monografía

"Cardiovascular Magnetic Resonance (CMR) is a rapidly expanding imaging method in cardiology which provides unparalleled diagnostic information about the heart. It is, however, a complex technique, and though the availability of scanners is increasing quickly, the expertise required to perform the scans is limited. While no book is a substitute for experience, this handbook provides an invaluable guide to performing and interpreting the scans which should aid both new and experienced operators. Cardiovascular Magnetic Resonance is an indispensable guide to performing and interpreting CMR scans. What to look for, which sequences to include, how to acquire them, and how to interpret the images are all included in the handbook. The information is provided in a quick-reference, easy-to-use format with many images from real cases, and is designed to sit on the scanning console or in the office, providing a step-by-step guide to aid the CMR practitioner at every stage. All areas of cardiovascular imaging are covered, including tips and tricks for optimal imaging and how to avoid and spot artefacts. From patient safety to differential diagnoses of tricky images, to an easy to understand section on the science behind magnetic resonance, all aspects are covered in this concise yet comprehensive guide to this specialist area. Whether a novice or expert in the field, all readers should find this book a useful tool. It is an invaluable reference that no CMR department should be without"-- Provided by publisher

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Título: Cardiovascular magnetic resonance edited by Saul G. Myerson, Jane Francis, and Stefan Neubauer

Editorial: Oxford [U.K.] New York Oxford University Press 2010

Descripción física: 1 online resource (xxiii, 475 pages) illustrations

Mención de serie: Oxford specialist handbooks in cardiology

Bibliografía: Includes bibliographical references and index

Contenido: Contributors; Symbols and abbreviations; 1 Understanding cardiovascular magnetic resonance; The principles of magnetic resonance; Components of a scanner; Image generation; Other aspects of image generation; Magnetic field around a scanner; Technical challenges of cardiac imaging; Types of cardiac imaging; Static magnetic resonance sequences; Cine imaging; Artefacts; Magnetic resonance contrast agents; Cardiac spectroscopy and non-proton imaging; 2 Scan set-up and optimization; Magnetic resonance safety; Optimizing the patient in the magnet; Patient anxiety and claustrophobia

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ISBN: 9780191575600 electronic bk.) 0191575607 electronic bk.) 9780199549573 pbk. ;) alk. paper) 0199549575 pbk. ;) alk. paper) 1283348306 9781283348300

Materia: Heart- Magnetic resonance imaging- Handbooks, manuals, etc Cardiovascular Diseases- diagnosis Diagnostic Techniques, Cardiovascular Magnetic Resonance Imaging- methods Cur- Imagerie par résonance- Guides, manuels, etc MEDICAL- Cardiology. Heart- Magnetic resonance imaging.

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Enlace a formato físico adicional: Print version Myerson, Saul G. Cardiovascular Magnetic Resonance. Oxford : OUP Oxford, 2010 9780199549573

Punto acceso adicional serie-Título: Oxford specialist handbooks in cardiology

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