



Cardiovascular magnetic resonance [

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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 includes what to look for, which sequences to include, how to acquire t

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Contenido: Contents; 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 Obese patients Cardiac (ECG) gating; Cardiac arrhythmias; Reducing the acquisition time; Breath-hold vs. non-breath-hold scans; CMR in children; General anaesthesia and CMR; Pacemakers/implantable cardioverter-defibrillators and CMR; Cardiovascular

magnetic resonance at 3.0 Tesla; 3 Image acquisition and standard views; Introduction; Choice of image sequence; Standard orthogonal image planes; Left ventricular function; Horizontal long axis view; Vertical long axis view; Left ventricular outflow tract view; 'Coronal' LVOT view; Short axis cine stack; Right ventricular function Right ventricular outflow tract viewHorizontal' RVOT view; Right ventricular 2-chamber view; Right ventricular 3-chamber view ('inflow-outflow' view); Planning an unusual image plane; Tissue characterization sequences; Flow imaging; Imaging with gadolinium contrast; Tissue characterization post-contrast; Late gadolinium enhancement; Contrast-enhanced magnetic resonance angiography; Perfusion imaging; 4 Image processing; Ventricular volumes and function; Flow analysis; Angiography and other 3D datasets; 5 Ventricular function assessment; Left ventricular function; Right ventricular function RV volume and pressure overload6 Ischaemic heart disease; Ischaemic heart disease; Myocardial viability; Dobutamine stress CMR; Perfusion imaging; Coronary artery imaging; Multiparametric CMR approach to ischaemic heart disease; 7 Inheritable cardiomyopathies; Hypertrophic cardiomyopathy; Dilated cardiomyopathy; Arrhythmogenic right ventricular cardiomyopathy; Left ventricular non-compaction; Anderson-Fabry disease; 8 Myocardial inflammation and infiltration; Myocardial tissue characterization; Myocarditis; Cardiac sarcoidosis; Cardiac amyloidosis; Eosinophilic myocarditis Muscular dystrophiesMyocardial iron overload; 9 Tumours and masses; Introduction; General scanning technique; Identifying cardiac masses; CMR features suggesting malignancy; Non-tumourous masses; Benign cardiac tumours; Malignant cardiac tumours; 10 Valve disease; CMR in valvular heart disease; The aortic valve; Aortic regurgitation; Aortic stenosis; Sub-aortic stenosis; Supra-aortic stenosis; Dynamic LV outflow tract obstruction; The mitral valve; Mitral regurgitation; Mitral stenosis; The pulmonary valve; Pulmonary regurgitation; Pulmonary stenosis Right ventricular outflow tract obstruction

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