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Titolo	Cardiovascular Magnetic Resonance : A Companion to Braunwald's Heart Disease E-Book
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Descrizione fisica	1 online resource (xxii, 597 pages) : illustrations (some color)
Altri autori (Persone)	PennellDudley J
Disciplina	616.1/207548
Soggetti	Cardiovascular system - Diseases - Magnetic resonance imaging Magnetic resonance Cardiovascular Diseases - diagnosis Magnetic Resonance Imaging - methods Diagnostic Techniques, Cardiovascular
Lingua di pubblicazione	Inglese
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Nota di contenuto	Basic principles of cardiovascular magnetic resonance -- Techniques for T1, T2, and extracellular volume mapping -- Cardiovascular magnetic resonance contrast agents -- Myocardial perfusion imaging theory -- Myocardial perfusion cardiovascular magnetic resonance : advanced techniques -- Blood flow velocity assessment -- Use of navigator echoes in cardiovascular magnetic resonance and factors affecting their implementation -- Cardiovascular magnetic resonance assessment of myocardial oxygenation -- Cardiac magnetic resonance spectroscopy -- Special considerations for cardiovascular magnetic resonance : safety, electrocardiographic setup, monitoring, and contraindications -- Pacemaker and implantable cardioverter-defibrillator safety and safe scanning -- Special considerations : cardiovascular magnetic resonance in infants and children -- Human cardiac magnetic resonance at ultrahigh fields : technical innovations, early clinical applications and opportunities for discoveries -- Clinical cardiovascular magnetic resonance imaging techniques -- Normal cardiac anatomy -- Assessment of cardiac function -- Stress cardiovascular magnetic resonance : wall motion -- Stress

cardiovascular magnetic resonance : clinical myocardial perfusion -- Acute myocardial infarction : cardiovascular magnetic resonance detection and characterization -- Acute myocardial infarction : ventricular remodeling -- Myocardial viability -- Cardiovascular magnetic resonance tagging for assessment of left ventricular diastolic function -- Magnetic resonance imaging of coronary arteries : technique -- Coronary artery imaging : clinical results -- Coronary artery and sinus velocity and flow -- Coronary artery bypass graft imaging and assessment of flow -- Atherosclerotic plaque imaging : aorta and carotid -- Atherosclerotic plaque imaging : coronaries -- Assessment of the biophysical mechanical properties of the arterial wall -- Valvular heart disease -- Role of cardiovascular magnetic resonance in dilated cardiomyopathy -- T1 and T2 mapping and extracellular volume in cardiomyopathy -- Cardiac iron loading and myocardial T2 -- Arrhythmogenic right ventricular cardiomyopathy -- Myocarditis -- Hypertrophic cardiomyopathy -- Cardiovascular magnetic resonance imaging in the evaluation of cardiac transplantation -- Cardiac and paracardiac masses -- Cardiovascular magnetic resonance assessment of right ventricular anatomy and function -- Simple and complex congenital heart disease : infants and children -- Simple and complex congenital heart disease : adults -- Pulmonary vein and left atrial imaging -- Thoracic aortic disease -- Cardiovascular magnetic resonance angiography : carotids, aorta, and peripheral vessels -- Pulmonary artery -- The pericardium : anatomy and spectrum of disease -- Interventional cardiovascular magnetic resonance -- Pediatric interventional cardiovascular magnetic resonance -- Cost-effectiveness analysis for cardiovascular magnetic resonance imaging -- Cardiac positron emission tomography/magnetic resonance -- Guidelines for cardiovascular magnetic resonance -- Noncardiac pathology -- CMR screening form: Beth Israel Deaconess Medical Center (BIDMC): CMR Center -- CMR sequence protocols in use (2018) at the Beth Israel Deaconess Medical Center (BIDMC): CMR Center -- Analogous CMR terminology used by various vendors.

Sommario/riassunto

"Written by an expert team of cardiologists, radiologists, and basic scientists, this third edition of Cardiovascular Magnetic Resonance continues to bridge the divide among specialty areas in with cohesive presentation of this complex and fast-changing field. Offering comprehensive coverage of CMR and the latest cardiology applications, this practical reference enhances the understanding of cardiac physiology and the interpretation and diagnosis of cardiovascular disease. This is an ideal resource for cardiologists, cardiovascular and general radiologists, and anyone who needs up-to-date information on CMR's uses, benefits, and limitations in cardiovascular care."