Record Nr. UNISA996205532103316 Cardiac CT, PET and MR [[electronic resource] /] / edited by Vasken **Titolo** Dilsizian and Gerald M. Pohost; foreword by Robert O. Bonow Pubbl/distr/stampa Malden, MA, : Blackwell Futura, 2006 **ISBN** 1-280-74814-1 9786610748143 0-470-98853-3 1-4051-7171-5 Descrizione fisica 1 online resource (274 p.) Altri autori (Persone) DilsizianVasken PohostGerald M 616.120754 Disciplina Soggetti Cardiovascular system - Imaging Cardiovascular system - Tomography Cardiovascular system - Magnetic resonance imaging Tomography, Emission Lingua di pubblicazione Inglese **Formato** Materiale a stampa Livello bibliografico Monografia Description based upon print version of record. Note generali Nota di bibliografia Includes bibliographical references and index. Nota di contenuto Cardiac CT, PET and MR; Contents; Contributors; Foreword; Part I: Instrumentation, imaging techniques, and protocols: 1. Positron emission tomography; 2. Cardiovascular magnetic resonance: Basic principles, methods and techniques; 3. Multidetector and electronbeam computed tomography of the heart; Part II: Clinical applications; 4. PET assessment of myocardial perfusion; 5. PET: Metabolism, innervation and receptors; 6. MR angiography: Coronaries and great vessels: 7. Cardiovascular magnetic resonance: Evaluation of myocardial function, perfusion and viability; 8. MSCT coronary imaging 9. Cardiac computed tomography: Evaluation of myocardial function, perfusion and viabilityPart III: Concurrent noninvasive assessment of coronary anatomy, physiology, and myocellular integrity; 10. PET and MRI in cardiac imaging; 11. PET and CT in cardiac imaging: Is a paradigm shift from SPECT to hybrid PET/CT inevitable?; Index Sommario/riassunto The standard procedure for defining the anatomic extent and severity of coronary artery disease is catheter-based selective coronary

angiography. While there are advantages to coronary angiography, it is invasive with some risk of complications and requires a brief period of hospitalization, making it relatively expensive. Cardiac CT, PET and MR is a complete technique-oriented reference, offering real alternatives to the "standard procedure". Non-invasive techniques of coronary artery lumen imaging, such as multislice computed tomography (MSCT) and magnetic resonance imaging (CMR