

# Magnetic Resonance Imaging In Coronary Artery <u>Disease</u>

Ernst E. van der Wall, Albert de Roos

## **Magnetic Resonance Imaging In Coronary Artery Disease:**

Magnetic Resonance Imaging in Coronary Artery Disease Ernst E. van der Wall, Albert de Roos, 2012-12-06 It is with pleasure that I write this foreword for the book Magnetic Resonance Imaging in Coronary Artery Disease edited by Dr van der Wall and Dr de Roos I am pleased for two reasons Firstly as chairman of the Scientific Board of the Interuniversity Cardiology Institute of the Netherlands ICIN because ever since the technique became available for use in medicine and biology our Institute has tried and succeeded to promote the introduction and dev opment of magnetic resonance imaging in cardiology in the Netherlands ICIN was the first cardiological institute on the European continent to purchase its own nuclear magnetic resonance spectroscope for the study of myocardial metabolism Secondly because I have always been infatuated with this noninvasive technique that can produce cardiac images without ionic radiation and at the same time allows for the study of myocardial metabolism as well And even more so because nuclear magnetic resonance imaging in medicine is one of the shining examples of medical progress as a result of breakthrough discoveries in physics and chemistry

Cardiac Magnetic Resonance Imaging for the Diagnosis of Coronary Artery Disease, 2010 Cardiovascular Magnetic **Resonance Imaging** Raymond Y. Kwong, 2008-03-19 Cardiac Magnetic Resonance Imaging CMR is a rapidly evolving tool This book presents a state of the art compilation of expert contributions to the field each examining normal and pathologic anatomy of the cardiovascular system as assessed by magnetic resonance imaging Functional techniques such as myocardial perfusion imaging and assessment of flow velocity are emphasized. The book represents a multi disciplinary approach to the field Magnetic Resonance Imaging of Myocardial Deformation and Scarring in Coronary Artery Disease. Johan Kihlberg, 2017-11-15 Although improved treatments have reduced the rates of acute complications from myocardial infarction sequelae such as heart failure and sudden death threaten the future wellbeing of those patients Secondary prevention after myocardial infarction is related to cardiovascular risk factors and the effect of the infarct on left ventricular function Cardiovascular magnetic resonance imaging CMR is necessary to determine the size of the infarct scar and can with great precision determine left ventricular volumes left ventricular ejection fraction and deformation strain and torsion The purpose of this thesis was to improve on CMR methods to facilitate image acquisition and post processing in patients with high risk of coronary artery disease CAD In Paper 1 a three dimensional phase sensitive inversion recovery 3D PSIR sequence was modified to measure T1 during a single breath hold The measured T1 values were used to extrapolate a map of T1 relaxation which avoided the time consuming manual determination of the inversion time. The data collection consisted of phantom experiments Monte Carlo simulations of the effect of various heart rates and clinical investigation of 18 patients with myocardial infarction Scar images created with the modified sequence were compared to those created with the standard sequence The 3D PSIR sequence was able to measure T1 relaxation with a high accuracy up to 800 ms which is in the suitable range for scar imaging Simulated arrhythmias showed that the method was robust and able to tolerate some

variation in heart rate The modified sequence provides measurements of inversion time that can be used to facilitate standard scar imaging or to reconstruct synthetic scar images Images of infarct scar obtained with the 3D PSIR sequence bore striking similarity to images obtained with the standard sequence In Paper 2 125 patients with high risk of CAD were investigated using the displacement encoding with stimulated echoes DENSE sequence Image segments with infarct scar area 50% transmurality could be identified with a sensitivity of 95% and a specificity of 80% based on circumferential strain calculated from the DENSE measurements The DENSE sequence was also applied in other directions but its sensitivity and specificity to detect scar was lower than when used for circumferential strain In Paper 3 90 patients with high risk of CAD were examined by DENSE tagging with harmonic phase HARP imaging and cine imaging with feature tracking FT to detect cardiac abnormalities as manifested in end systolic circumferential strain Circumferential strain calculated with DENSE had higher sensitivity and specificity than the competing methods to detect infarction with transmurality 50% Global circumferential strain measured by DENSE correlated better with global parameters such as left ventricular ejection fraction myocardial wall mass left ventricular end diastolic and end systolic volume than strain measured by FT or HARP In Paper 4 myocardial torsion was investigated using DENSE HARP and FT in 48 patients with high risk of CAD Torsion measured by each of the three methods was correlated with other global measures such as left ventricular ejection fraction left ventricular mass and left ventricular end diastolic and end systolic volumes The torsion measurements obtained with DENSE had a stronger relationship with left ventricular ejection fraction left ventricular mass and volumes than those obtained with HARP or FT DENSE was superior to the other methods for strain and torsion measurement and can be used to describe myocardial deformation quantitatively and objectively Diagnostic Imaging of Coronary Artery Disease Kusai Aziz, George S. Abela, 2009 Co authored by a nuclear cardiologist and a cardiologist this book presents practical up to date information on diagnostic imaging for coronary artery disease including coronary CT angiography cardiac SPECT cardiac PET and MRI The authors present the basic concepts and must know facts of these modalities and offer guidelines for risk stratification of coronary artery disease Test questions for board review are included A companion Website will contain clinical case examples of coronary CT angiography studies and nuclear studies Full color images of black and white print CT SPECT and PET materials will be included The Website will also include 31 video clips Cardiovascular Magnetic Resonance Warren J. Manning, Dudley J. Pennell, 2018-04-26 Provides state of the art coverage of CMR technologies and guidelines including basic principles imaging techniques ischemic heart disease right ventricular and congenital heart disease vascular and pericardium conditions and functional cardiovascular disease Includes new chapters on non cardiac pathology pacemaker safety economics of CMR and quidelines as well as new coverage of myocarditis and its diagnosis and assessment of prognosis by cardiovascular magnetic resonance and the use of PET CMR imaging of the heart especially in sarcoidosis Features more than 1 100 high quality images representing today s CMR imaging Covers T1 T2 and ECV mapping as well as

T2 imaging in iron overload which has been shown to save lives in patients with thalassaemia major Discusses the cost effectiveness of CMR Provides state of the art coverage of CMR technologies and guidelines including basic principles imaging techniques ischemic heart disease right ventricular and congenital heart disease vascular and pericardium conditions and functional cardiovascular disease Includes new chapters on non cardiac pathology pacemaker safety economics of CMR and guidelines as well as new coverage of myocarditis and its diagnosis and assessment of prognosis by cardiovascular magnetic resonance and the use of PET CMR imaging of the heart especially in sarcoidosis Features more than 1 100 high quality images representing today s CMR imaging Covers T1 T2 and ECV mapping as well as T2 imaging in iron overload which has been shown to save lives in patients with thalassaemia major Discusses the cost effectiveness of CMR Expert ConsultTM eBook version included with purchase This enhanced eBook experience allows you to search all of the text figures and references from the book on a variety of devices **Magnetic Resonance Imaging of Congenital** Heart Disease Mushabbar A. Syed, Raad H. Mohiaddin, 2012-12-19 This textbook is alone in focusing on the subject of cardiac magnetic resonance CMR imaging in pediatric and adult patients with congenital heart disease The topic of congenital heart disease imaging is usually relegated to a single chapter in most general CMR texts The expanding scope of CHD warrants a text dedicated to covering CHD and CMR imaging in detail Our proposed book aims to be a comprehensive and authoritative text on this subject This book is be a multi authored illustrated text that includes supplementary access to a number of clinical videos Authors have been selected from imaging experts in the most medically advanced areas of the world heavily weighted by experts in the US and Europe to produce the quintessential reference in this topic

Cardiovascular Magnetic Resonance E-Book Warren J. Manning, Dudley J. Pennell, 2010-04-05 Cardiovascular Magnetic Resonance provides you with up to date clinical applications of cardiovascular MRI for the broad spectrum of cardiovascular diseases including ischemic myopathic valvular and congenital heart diseases as well as great vessel and peripheral vascular disease Editors Warren J Manning and Dudley J Pennell and their team of international contributors cover everything from basic MR physics to sequence design flow quantification and spectroscopy to structural anatomy and pathology Learn the appropriate role for CMR in a variety of clinical settings with reference to other modalities practical limitations and costs With the latest information on contrast agents MR angiography MR spectroscopy imaging protocols and more this book is essential for both the beginner and expert CMR practitioner Covers both the technical and clinical aspects of CMR to serve as a comprehensive reference Demonstrates the full spectrum of the application of cardiac MR from ischemic heart disease to valvular myopathic pericardial aortic and congenital heart disease Includes coverage of normal anatomy orientation and function to provide you with baseline values Discusses advanced techniques such as interventional MR to include essential information relevant to the specialist Features appendices with acronyms and CMR terminology used by equipment vendors that serve as an introduction to the field Uses consistent terminology and abbreviations throughout the text for clarity and

easy reference Covers both the technical and clinical aspects of CMR to serve as a comprehensive reference Demonstrates the full spectrum of the application of cardiac MR from ischemic heart disease to valvular myopathic pericardial aortic and congenital heart disease Includes coverage of normal anatomy orientation and function to provide you with baseline values Discusses advanced techniques such as interventional MR to include essential information relevant to the specialist Features appendices with acronyms and CMR terminology used by equipment vendors that serve as an introduction to the field Uses consistent terminology and abbreviations throughout the text for clarity and easy reference Coronary Artery Disease and the Myocardial Ischemic Cascade, An Issue of Radiologic Clinics of North America U. Joseph Schoepf, 2015-04-07 State of the Art CT and MR Imaging of Coronary Artery Disease and the Myocardial Ischemic Cascade is covered extensively in this issue of Radiologic Clinics Articles will include Imaging Coronary Artery Disease and the Myocardial Ischemic Cascade CT Imaging of Coronary Artery Plaque Coronary CT Angiography in Clinical Practice Beyond Stenosis Detection CT Approaches for Determining the Functional Relevance of Coronary Artery Disease CT Assessment of Coronary Artery Disease Cardiac CT for the Evaluation of the Acute Chest Pain Syndrome Current State of the Art Cardiovascular MRI Techniques for Assessment of Ischemic Heart Disease Global and Regional Functional Assessment of Ischemic Heart Disease with Cardiac MRI MRI of the Coronary Vasculature Imaging the Lumen Wall and Beyond Delayed Enhanced Viability Imaging Techniques and Clinical Applications Tissue Characterization of the Left Ventricular Myocardium State of the Art Techniques and Emerging Clinical Utility Stress Cardiac MRI the Role of Stress Functional Assessment and Perfusion Imaging in the Evaluation of Ischemic **Advanced Cardiac Magnetic Resonance Imaging in Heart Failure and Coronary** Heart Disease and much more Artery Disease Eva Clare Sammut, 2018

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