

Ultrasound In Coronary Artery Disease Present Role And Future Perspectives Developments In Cardiovascular Medicine

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Today, coronary artery disease is one of the major causes of mortality and morbidity in the Western World. In the last decade many major diagnostic and therapeutic advances have been made, considerably furthering our potential in the management of coronary artery disease. At the same time, a new generation of cardiac tools has appeared.

Ultrasound in Coronary Artery Disease: Present Role and Future Perspectives (Developments in Cardiovascular Medicine): 9789401067621: Medicine & Health Science Books @ Amazon.com

8/7/2016 · Future developments include ultra-high resolution or micro-OCT, which will provide even higher quality images with spatial resolutions ten times that of FD-OCT, permitting sub-cellular analysis of atherosclerosis, which may be used for individualised or targeted therapy in the prevention of coronary artery disease.

Coronary artery bypass graft surgery is recommended in patients with class III to IV CAC based on intravascular ultrasound, as well as anticipated difficulty in performing PCI which include the following characteristics: (1) thrombotic or ulcer lesions, (2) serious angle lesions > 60 degrees, especially into more than 90 degree angle, (3) have obvious intimal tear lesions, (4) diffuse lesion length > 25 mm, (5) severe

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left ventricular dysfunction, and (6) the coronary ...

In the field of coronary artery disease, echocardiography can reliably be used not only in the acute phases of the disease to derive useful functional and prognostic information but also as a stress diagnostic procedure (thanks to new stress modalities and the continuing improvement of reviewing digital systems) for the diagnosis of coronary artery disease and for the evaluation of ...

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8/7/2016 · Introduction. Cardiovascular disease remains the principal non-communicable cause of death worldwide. 1 The predominant underlying aetiology is coronary artery disease due to the process of atherosclerosis within medium and large-sized vessels. It results in connective tissue proliferation and lipid accumulation with the vascular intima leading to plaque formation and subsequent plaque ...

14/2/2006 · New tomographic cardiovascular imaging tests, such as intravascular ultrasonography (IVUS), coronary computed tomography (CT) angiography and magnetic resonance imaging (MRI), can be used to assess atherosclerotic plaques for the characterization and early staging of coronary artery disease (CAD). Although IVUS images have very high resolution capable of revealing very early ...

1/8/2017 · Cardiac imaging is an integral aspect in the diagnosis and monitoring of cardiovascular disease. CT coronary angiography and cardiac MRI are both relatively recent in their clinical use compared to echocardiography and nuclear cardiac studies, but both provide extremely valuable and additive information to other modalities when used appropriately.

While CMR is, at present, not suited to assessment of aircrew with risk factors, MRI techniques including Positron emission tomography (PET)/MRI and stress perfusion MRI may, in the future, play a role in the evaluation of aircrew with known coronary disease in an overall risk assessment for future cardiac events in consideration for a return to flying duties.

Starting with optimal medical therapy alone was just as effective as also undergoing cardiac catheterization and revascularization in the International Study of Comparative Health Effectiveness with Medical and Invasive Approaches trial. With 5179 participants in 37 countries, the National Heart, Lung, and Blood Institute-funded study is the largest head-to-head trial to compare an invasive ...

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Coronary artery disease (CAD) remains the most prevalent cause of death in the Western countries with atherosclerosis the main underlying pathology for CAD and cerebrovascular disease. 1 Over many decades, detection of luminal stenosis and its clinical consequences have been the main purpose for studying arterial disease, 2 but more recently, the management strategy changed.

16/6/2015 · Introduction. Asymptomatic carotid artery stenosis is a significant health concern, as out of the 135,701 carotid revascularizations performed in the U.S. in 2005, 122,986 (92%) were for asymptomatic carotid artery stenosis. 1 Current societal guidelines recommend revascularization in most patients with severe asymptomatic carotid artery stenosis. 2 However, these guidelines are ...

29/7/2019 · Patients with known cardiovascular disease who have not had a recent acute event are often referred to as having stable coronary artery disease (CAD). The concept of 'stable' CAD is misleading ...

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26/11/2019 · Cardiac computed tomography (CT) allows rapid visualization of the heart and coronary arteries with high spatial resolution. However, analysis of cardiac CT scans for manifestation of coronary artery disease is time-consuming and challenging. Machine learning (ML) approaches have the potential to address these challenges with high accuracy and consistent performance.

30/6/2020 · Introduction. Coronary artery disease (CAD) has continued to be a major cause of morbidity and mortality worldwide, despite recent advances in medical and interventional therapies (). The pathogenesis of acute coronary events involves the development of an early core with the accumulation of lipid-rich free cholesterol which then progresses to the formation of a fibroatheroma ().

burden of heart disease and stroke. Heart disease and stroke are among the nation's leading causes of death and disability, projected to cost more than \$351 billion in 2003. Heart disease and stroke can affect anyone without regard to age, race, ethnicity, sex, or income level. And as our population ages, these largely preventable

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recommend revascularization in most patients with severe asymptomatic carotid artery stenosis. 2 However, these guidelines are ...

13/7/2021 · Amid the COVID-19 crisis, the global market for Intravascular Ultrasound (IVUS) estimated at US\$569.4 Million in the year 2020, is projected to reach a revised size of US\$849.6 Million by 2026 ...

13/7/2021 · Intravascular Ultrasound (IVUS) is a diagnostic procedure performed to get real-time view of the inside of a coronary artery. IVUS is a catheter-based medical imaging methodology that allows ...

Coronary artery disease is the buildup of plaque in the arteries that supply oxygen-rich blood to your heart. Plaque causes a narrowing or blockage that could result in a heart attack. Symptoms include chest pain or discomfort and shortness of breath. Treatments include lifestyle changes and medications that target your risk factors and/or ...

30/9/2020 · New device for monitoring coronary artery disease in real-time. Coronary artery disease - a leading cause of death in the US - narrows or blocks arteries that carry a vital supply of blood, oxygen ...

29/9/2013 · On Sept 29, 2013, the Framingham Heart Study will celebrate 65 years since the examination of the first volunteer in 1948. During this period, the study has provided substantial insight into the epidemiology and risk factors of cardiovascular disease. The origins of the study are closely linked to the cardiovascular health of President Franklin D Roosevelt and his premature death from ...

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