Tetrahydrobiopterin Concentrations in Normal and Coronary Artery Diseased Heart Tissue

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Background: Tetrahydrobiopterin (BH4) is a cofactor that plays a major role in cardiovascular health and disease. BH4 levels in the human heart have not been previously reported. Objective and Methods: Using a novel LC-MS/MS method we measured BH4 and BH2 levels in human heart tissue from subjects with (n=19) and without (n=19) coronary artery disease (CAD). Results ...
Cardioverter Defibrillator Combination: A New Hope for Heart Failure Patients with Low Ejection Fraction and Narrow QRS Complex

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Background: Heart failure (HF) is a common cardiovascular disease with high rates of morbidity and mortality despite advances in medical and device-related management. Cardiac Contractility Modulation (CCM) is a promising therapy in HF patients with narrow QRS complex and CCM devices are approved and available for clinical use in Europe. On the other hand, there has r ...

Oxidative Stress as "Mother" of Many Human Diseases at Strong Clinical Impact

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Oxidative stress, characterized by the production in excess of free radicals, is the main aspect of all living systems which use oxygen to convert biochemical energy coming from nutrients into adenosine triphosphate. In turn free radicals, also called reactive oxygen species, induce oxidative damage to some cellular macromolecules, as lipids, proteins, and DNA. Incre ...

Long Segment Left Anterior Descending Endarterectomy [10 cm] and its Reconstruction Using Left Internal Thoracic Artery

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Although coronary endarterectomy is an option for surgical reconstruction of a diffusely diseased vessel, it has not been widely used. In coronary artery bypass grafting, a diffusely diseased left anterior descending coronary artery (LAD) is an obstacle to achieving complete revascularization, consequently leading to the possibility of a poor prognosis. Here, we
Atherosclerotic Monstrous Double Aneurysm of the Left Main Coronary Artery: A Very Rare Angiographic Finding

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Coronary artery aneurysm is a rare disease diagnosed in 0.3 to 4.9% of patients undergoing coronary angiography. The incidence of left main coronary artery aneurysm (LMCAA) is extremely rare: 0.1% [1]. Coronary artery aneurysm involves the right coronary artery, the left anterior descending and circumflex coronary arteries in descending order of frequency [2] and the ...