MECHANISMS OF ATRIAL ARRHYTHMIAS INSIGHTS FROM THE DEVELOPMENT OF A BIOPHYSICALLY DETAILED MODEL OF

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mechanisms of atrial arrhythmias pdf

PDF | Blood circulation is the result of the beating of the heart, which provides the mechanical force to pump oxygenated blood to, and deoxygenated blood away from, the peripheral tissues. This ...

(PDF) Mechanisms of Cardiac Arrhythmias - ResearchGate

Mechanisms of cardiac arrhythmias: from automaticity to re-entry. The aim of this chapter is to present the most common arrhythmias in clinical practice. The initial discussion will focus on mechanisms of cardiac arrhythmias.

Mechanisms of cardiac arrhythmias: from automaticity to re

Mechanisms of Clinical Arrhythmias DOUGLAS P. ZIPES From the Krannert Institute of Cardiology, Indiana University School of Medicine and the Roudebush Veterans ... in human atrial and ventricular ?bers, its relation-ship to the genesis of clinical arrhythmias has not been established.

Mechanisms of Clinical Arrhythmias - heartrhythmjournal.com

Atrial Tachycardia: Mechanisms, Diagnosis, and Management Kurt C. Roberts-Thomson, MBBS, FRACP, Peter M. Kistler, MBBS, PhD, FRACP, and Jonathan M. Kalman, MBBS, PhD, FACC Abstract: Atrial tachycardia is an uncommon arrhyth-mia and may be focal or macroreentrant. This review concentrates on focal atrial tachycardia. Over the last

Atrial Tachycardia: Mechanisms, Diagnosis, and Management

These findings suggest that further investigations in the neural mechanisms of atrial arrhythmias might lead to better management of patients with atrial arrhythmias. In this article, we review the role of the ANS in the induction and maintenance of atrial arrhythmias and the role of neural modulation as a treatment strategy for atrial arrhythmias.

Neural Mechanisms of Atrial Arrhythmias - INDIGO

Atrial fibrillation (AF) is known to result from and result in changes in cellular electrophysiology, atrial tissue architecture, and the autonomic nervous system (ANS). Atrial fibrillation is a complex arrhythmia with multiple mechanisms. AF requires a trigger for initiation and a favorable substrate for maintenance.

Neural mechanisms of atrial fibrillation

3. Mechanisms of arrhythmias. Several schemes have been used to classify the mechanisms of cardiac arrhythmias. Traditionally, these have been divided into nonreentrant and reentrant activity . An alternative scheme divided them into those occurring at the cellular and tissue levels .

Mechanisms of cardiac arrhythmias - PubMed Central (PMC)

Arrhythmia Mechanisms The sinoatrial or sinus node (SAN) is the heart’s natural pacemaker. ... Null mutation of Shox2 in mouse embryos is lethal due to atrial malformation and severe bradycardia.10 Tbx18 is another important T-box transcription factor which appears ... ARRHYTHMIA ELECTROPHYSIOLOGY REVIEW 29

Arrhythmia Mechanisms - Radcliffe Cardiology

Atrial fibrillation is a highly prevalent cardiac arrhythmia and the most important cause of embolic stroke. Although genetic studies have identified an increasing assembly of AF-related genes, the impact of these genetic discoveries is yet to be realized.

Mechanisms and Drug Development in Atrial Fibrillation

Background—The relationship between autonomic activation and the mechanisms of paroxysmal atrial fibrillation remains unclear. ... and paroxysmal atrial tachycardia, which suggests that simultaneous sympathovagal discharges and these arrhythmias are causally related. Because cryoablation only delayed but did not prevent sustained atrial ...

Neural Mechanisms of Paroxysmal Atrial Fibrillation and

the mechanisms responsible for the onset and persistence of the arrhythmia with emphasis on the role of atrial fibrosis as the main course of structural remodeling. Conceptual models of atrial fibrillation The mechanisms of spatiotemporal organization

of electrical activity in the atria during AF have not conclusively been understood.

New Insights into Mechanisms of Atrial Fibrillation - avcr.cz

Atrial Fibrillation. Maintenance of the arrhythmia lies in a combination of electrophysiological and structural factors, which create the substrate to perpetuate AF. Different mechanisms have been postulated, including multiple wavelets of reentry or a mother rotor circuit, as well as high frequency activity in the atria.

Mechanisms of Cardiac Arrhythmias - ScienceDirect

A prerequisite for re-entry is the presence of two pathways with differing conduction velocities that connect two points, in this case the atria with the ventricles. The signal splits in two at arrival, but no arrhythmia is initiated as the slow signal becomes extinct when it meets the fast signal.

Mechanisms of Arrhythmias - ECGpedia

Objectives This study sought to describe atrial arrhythmia mechanisms, acute outcomes, and long-term arrhythmia burdens following catheter ablation in adult atriopulmonary (AP) Fontan patients. Background Atrial arrhythmias are a significant cause of morbidity and mortality in the AP Fontan population.