Numerical Analysis of Arterial Plaque Thickness and its Impact on Artery Wall Compliance

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A numerical analysis was completed on the influence of plaque on the compliance of an artery wall. The analysis allowed a systematic variation of the transluminal pressure difference and plaque thickness. Included in the analysis was a sheath of surrounding tissue that provides support during the cyclical deformation. The analysis incorporated progressively thicker la ...

Autonomic Innervation from the Aortic Root Ventricular Ganglionated Plexi to the Pulmonary Vein: A Novel Pathway

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Author(s): Hong-Tao Wang, Bo-Yuan Fan, Fei-Fei Su, Di Zeng, Tao Chen* and Qiang-sun Zheng*

Background: Autonomic nerve innervation pathway from the ventricular GP to the pulmonary veins (PV) remains unclear.

Aim: This study investigates the autonomic innervations from aortic root ventricular GP to the PVs. Nissl's staining and fluorescent dual label staining were performed to determine the neuron structure in the aortic root GP in five dogs. Avidin Biotin C ...

Case Report
Multiple Giant Coronary Arterial Aneurysms Leading to Stable Angina

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Author(s): Bahadir Sarli*, Eyup Ozkan, Melih Demirbas and Ahmet O Baktir

Coronary artery aneurysm (CAA) is defined as abnormal dilatation of a coronary artery luminal diameter to 1.5 to 2 times wider than the adjacent normal segment. Giant coronary artery aneurysms are rare, with a reported prevalence of 0.02% to 0.2% [1]. Most of the giant coronary artery aneurysms are asymptomatic, but some patients present with angina pectoris, sudden d ...
Mitral Valve Obstruction and Pulmonary Hypertension Caused by a Giant Left Atrial Myxoma Prolapsing in the Left Ventricle

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Author(s): Musuraca Gerardo*, Agostoni Pierfrancesco, Boldi Emiliano, Terraneo Clotilde, Imperadore Ferdinando and Del Greco Maurizio

Atrial myxomas are the most common primary cardiac tumors to diagnose. They are benign and have variable presentation. They have an excellent prognosis following surgical excision. We report a case of a 60 year old female who presented with initial signs of both right and left heart failure, fever and cough. Auscultation of the heart revealed an apical mid diastolic m...