

Atrial Fibrillation And Pacemaker

Atrial flutter into atrial fibrillation (AF). But rarely does it persist for months or years. Similar to the abnormal heart rhythm atrial fibrillation, atrial flutter 1bf34a787f

Budiodarone budioparone (ATI-2042) in patients with paroxysmal atrial fibrillation and pacemakers with atrial fibrillation data logging capabilities. Heart Rhythm Society 1bf34a787f

Episodes can be asymptomatic. Symptomatic episodes may involve heart palpitations, fainting, lightheadedness, loss of consciousness, or shortness of breath. Atrial fibrillation is associated with an increased risk of heart failure, dementia, and stroke. It is a type of supraventricular tachycardia. 1bf34a787f Originally, it was believed that the atria had different ectopic foci that were spontaneously depolarizing, each foci acting as a pacemaker for the heart. However, the atrial muscle tissue... 1bf34a787f The exact cause of PACs is unclear; while several predisposing conditions exist, single isolated PACs commonly occur in healthy young and elderly people. Elderly people that get PACs usually don't need any further attention besides follow-ups due to unclear evidence. 1bf34a787f

Premature atrial contraction "Premature atrial contractions: A predictor of atrial fibrillation and a relevant marker of atrial cardiomyopathy". While the sinoatrial node typically regulates the heartbeat during normal sinus rhythm, PACs occur when another region of the atria depolarizes before the sinoatrial node and thus triggers a premature heartbeat, in contrast to escape beats, in which the normal sinoatrial node fails, leaving a non-nodal pacemaker to initiate a late beat. Frontiers in Physiology A premature atrial contraction (PAC), also known as atrial premature complex (APC) or atrial premature beat (APB), is a common arrhythmia characterized by premature heartbeats originating in the atria. Guasch E, Mont L (2022) 1bf34a787f

It is associated with multiple genes: 1bf34a787f The SA node is considered the primary pacemaker of the heart. In wandering atrial pacemaker, there are other locations within the atria besides the SA node that are responsible for each heartbeat. This is unusual because the SA node, AV node, bundle of His, bundle branches, and Purkinje fibers are the structures that have pacemaking capability. The atrial and ventricular muscle tissue do not have this capability. 1bf34a787f

Pacemaker syndrome develop pacemaker syndrome may require adjustment of the pacemaker, or fitting of another lead to better coordinate the timing of atrial and ventricular 1bf34a787f

== Pathophysiology == 1bf34a787f

Familial atrial fibrillation Familial atrial fibrillation is an autosomal dominant heart condition that causes disruptions in the heart's normal rhythm. This condition is characterized by uncoordinated electrical activity in the heart's upper chambers (the atria), which causes the heartbeat to become fast and irregular. This condition is characterized Familial atrial fibrillation is an autosomal dominant heart condition that causes disruptions in the heart's normal rhythm 1bf34a787f

Premature atrial contractions (PACs) are common... 1bf34a787f

Wandering atrial pacemaker Wandering atrial pacemaker (WAP) is an atrial rhythm where the pacemaking activity of the heart originates from different locations within the atria. Diagnosis of wandering atrial pacemaker is made by an ECG. This is different from normal pacemaking activity, where the sinoatrial node (SA node) is responsible for each heartbeat and keeps a steady rate and rhythm. It is often seen in the young, the old, and in athletes, and rarely causes symptoms or requires treatment. Causes of wandering atrial pacemaker are unclear, but there may be factors leading to its development. Wandering atrial pacemaker (WAP) is an atrial rhythm where the pacemaking activity of the heart originates from different locations within the atria 1bf34a787f

The primary purpose of a pacemaker is to maintain an even heart rate, either because the heart's natural cardiac pacemaker provides an inadequate or irregular heartbeat, or because there is a block in the heart's electrical conduction system. Modern pacemakers are externally programmable and allow a cardiologist to select the optimal pacing modes for individual patients. Most pacemakers are on demand, in which the stimulation of the heart is based on the dynamic demand of the circulatory system. Others send out a fixed rate of impulses. 1bf34a787f A specific type of pacemaker, called an implantable cardioverter-defibrillator, combines pacemaker and defibrillator functions in a single implantable device. Others, called biventricular pacemakers, have multiple electrodes stimulating different positions

within the ventricles (the lower heart chambers) to improve... 1bf34a787f

Ectopic pacemaker bradycardia or ventricular fibrillation. In a normal heart beat rhythm, the SA node usually suppresses the ectopic pacemaker activity due to the higher 1bf34a787f

Atrial fibrillation frequently results from bursts of tachycardia that originate in muscle bundles extending from the atrium to the pulmonary veins. Pulmonary vein isolation by transcatheter ablation can restore sinus rhythm. The ganglionated plexi (autonomic ganglia of the heart atrium and ventricles) can also be a source of atrial fibrillation, and are sometimes also ablated for that reason. Not only the pulmonary vein, but the left atrial appendage and ligament of Marshall can be a source of atrial fibrillation and are also ablated for... 1bf34a787f

Atrial fibrillation It often begins as short periods of abnormal beating, which become longer or continuous over time. It may also start as other forms of arrhythmia, such as atrial flutter, that transform into AF. Atrial fibrillation (AF, AFib or A-fib) is an abnormal heart rhythm (arrhythmia) characterized by rapid and irregular beating of the atrial chambers of Atrial fibrillation (AF, AFib or A-fib) is an abnormal heart rhythm (arrhythmia) characterized by rapid and irregular beating of the atrial chambers of the heart 1bf34a787f

== Epidemiology == 1bf34a787f

Multifocal atrial tachycardia intervals and flutter waves), atrial fibrillation (this would not have discrete P-wave morphologies), and wandering atrial pacemaker which would have a heart 1bf34a787f

Pacemaker diseases, presence of atrial fibrillation, age and sex at the time of first implantation. Sometimes devices resembling pacemakers, called implantable A pacemaker, also known as an artificial cardiac pacemaker, is an implanted medical device that generates electrical pulses delivered by electrodes to one or more of the chambers of the heart. Each pulse causes the targeted chamber(s) to contract and pump blood, this regulating the function of the electrical conduction system of the heart 1bf34a787f

== Cause == 1bf34a787f PACs are often completely asymptomatic and may be noted only with Holter monitoring, but occasionally they can be perceived as a skipped beat or a jolt in the chest. In most cases, no treatment other than reassurance is needed for PACs, although medications such as beta blockers can reduce the frequency of symptomatic PACs. 1bf34a787f

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