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Retrospective Study

Impact of computerized tomography image and contact force technology on catheter ablation for atrial fibrillation

Ibrahim Marai, Mahmoud Suleiman, Miry Blich, Jonathan Lessick, Sobhi Abadi, Monther Boulos

Abstract

AIM: To investigate the impact of using CT and contact force technology on recurrence of atrial tachyarrhythmia after atrial fibrillation (AF) ablation.

METHODS: This non-randomized study included 2 groups of patients. All patients had symptomatic recurrent paroxysmal or persistent AF and were treated with at least 1 anti arrhythmic medication or intolerant to medication. The first group included 33 patients who underwent circumferential pulmonary veins isolation (PVI) for AF during 2012 and 2013 guided by CT image integration (Cartomerge, Biosense Webster, Diamond Bar, CA, USA) of left atrium and pulmonary veins into an electroanatomic mapping (EAM) system (CT group) using standard irrigated radiofrequency catheter (ThermoCool, Carto, Biosense Webster, Diamond Bar, CA, USA) or irrigated catheter

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