Experience of atrial tachycardia ablation using 3D mapping system

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Introduction: Atrial tachycardia is not a common cause of supraventricular tachyarrhythmias. The overall success rate and complications of atrial tachycardia ablation by using 3D mapping system were studied.

Methods: Patients with atrial tachycardia who underwent radiofrequency ablation using 3D mapping system from June 2015 to June 2019 were retrospectively studied through the case records.

Result: A total of 28 patients (male 4, female 24) with atrial tachycardia underwent electrophysiological study with 3D mapping system. Majority of patients (42%) were in the 41 to 60 years age group. Most patients (No=23, 82%) had atrial tachycardia from RA focus and 5 patients (18%) had focus in left atrium. Among the patients with right sided atrial tachycardia, most patients (No=9, 39%) had Crista origin. Ablation was successful in 20 patients including 1 patient with para-hisian focus. Among the patients with left sided atrial tachycardia, successful ablations were done for the focus at the roof of left atrium near right superior pulmonary vein, anterior part of left inferior pulmonary vein, left perinodal and anterior mitral annulus. Ablation was successful in 24 patients (85%), including 20 patients with atrial tachycardia from RA focus and 4 patients with LA focus.

Conclusion: Although the centre had low volume of cases in 4 years, high success rate (85%) was achieved with negligible complications.