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Intermediate term outcome after electrogram guided segmental ostial pulmonary vein isolation using an 8 mm tip catheter for paroxysmal atrial fibrillation

Introduction: There is no Indian data on the outcome following conventional radiofrequency catheter ablation (RFA) for patients with paroxysmal atrial fibrillation (PAF). In spite of recent advancements in this field including sophisticated three dimensional (3D) based imaging and advanced ablation catheters with contact force technology, many Indian patients will not afford such an expensive therapeutic procedure. Here in this article we have summarized the immediate and long term outcome following RFA of Indian patients with PAF using pulmonary vein (PV) electrogram based mapping and using 8 mm tip ablation catheter.

Methods: Forty two consecutive patients who underwent RFA for symptomatic PAF not controlled with at least one antiarrhythmic drugs were studied in a tertiary care institute from March 2015 to December 2018. PVI was performed solely by conventional electrophysiology procedure using 8 mm tip RF catheter and PV potential electrogram based mapping. 3D mapping was not used. Only PVI was performed. Substrate modification was not performed. Elimination of all ostial pulmonary vein potentials and complete entrance block into the pulmonary vein were considered indicative of complete electrical isolation. Follow-up visits were scheduled at four weeks, and three, six months post procedure, and every six months thereafter.

Results: After the procedure 34 were arrhythmia free, eight continued to have atrial fibrillation.

Conclusion: Conventional RFA using PV potential electrogram based mapping and ablation with 8 mm tip catheter is safe and effective for patients with PAF with satisfactory immediate and long term outcome and negligible complications and very cost effective in our setting with limited resources.

Biography

Prashant Pawar is an Interventional Cardiologist. He has done his research work in PVI for Paroxysmal Atrial Fibrillation. He has worked with Dr. Yash Lokhandwala the pioneer in EP study in India. He has many publications in his name. Present study was to evaluate PVI by conventional RF ablation.

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