

OUTCOMES OF CATHETER ABLATION FOR SUPRAVENTRICULAR TACHYCARDIA IN ADULT PATIENTS WITH CONGENITAL HEART DISEASE

Lohit Garg MD

Lehigh Valley Health Network, lohit.garg@lvhn.org

Sahil Agrawal MD

Manyoo Agarwal MD

Brijesh Patel MD

Lehigh Valley Health Network, brijesh.patel@lvhn.org

Mahek Shah MD

Lehigh Valley Health Network, Mahek.Shah@lvhn.org

See next page for additional authors

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Authors

Lohit Garg MD; Sahil Agrawal MD; Manyoo Agarwal MD; Brijesh Patel MD; Mahek Shah MD; Aakash Garg MD; Sudip Nanda MD, FACP; Talha Nazir MD; and Raman Dusaj MD



Arrhythmias and Clinical EP

OUTCOMES OF CATHETER ABLATION FOR SUPRAVENTRICULAR TACHYCARDIA IN ADULT PATIENTS WITH CONGENITAL HEART DISEASE

Poster Contributions
Poster Hall, Hall A/B
Saturday, March 10, 2018, 3:45 p.m.-4:30 p.m.

Session Title: Management of Supraventricular Tachycardia
Abstract Category: 08. Arrhythmias and Clinical EP: Supraventricular/Ventricular Arrhythmias
Presentation Number: 1144-041

Authors: *Lohit Garg, Sahil Agrawal, Manyoo Agarwal, Brijesh Patel, Mahek Shah, Aakash Garg, Sudip Nanda, Talha Nazir, Raman Dusaj, Lehigh Valley Health Network, Allentown, PA, USA*

Background: Supraventricular tachyarrhythmias (SVT) are common in adult patients with congenital heart disease (CHD). There is paucity of data regarding the safety and outcomes associated with catheter ablation in these patients.

Methods: We queried the National Inpatient Sample (NIS) to identify all adults patients > 18 years with CHD undergoing catheter ablation for SVT.

Results: Between 2003-2013, 5,966 patients with CHD underwent catheter ablation for SVT. Of these 4,769 were performed for atrial fibrillation or atrial flutter and rest for other SVTs. The mean age of these patient was 47+/- 15 years, 59.9% were males. 18% of patients experienced procedure related complications, however life-threatening complications were infrequent (3.8%) (Table1). On multivariate analysis, older age (OR= 1.016; CI= 1.008-1.023; p<0.001), female sex (OR=1.241; CI=1.053-1.463; p=0.01), large hospital size (OR=1.441; CI=1.044-1.987; p=0.026), and teaching hospital (OR=1.374; CI= 1.148-1.644; p<0.001) were independent predictors of in-hospital complications.

Conclusion: Patients with CHD undergo catheter ablation for SVT at young age. One-fifth of the patients experienced in-hospital complications while in-hospital death were rare.

Table 1: Complications associated with catheter ablation in patients with adult CHD:

Outcome	AFib/ Aflutter (4,769)	Other SVT (1197)
Death	16(0.3%)	0 (0%)
Bleeding complications	403 (7.8%)	100 (8.3%)
Pericardial complications	134 (2.6%)	15 (1.3%)
Iatrogenic cardiac injury	193 (3.7%)	46 (3.8%)
Vascular complications	99 (1.9%)	15 (1.3%)
Neurologic/ Stroke/ TIA	54 (1.0%)	10 (0.9%)

*** AFib: Atrial fibrillation; Aflutter: Atrial flutter; SVT: Supraventricular tachycardia**