



EMBARGOED UNTIL 20th NOVEMBER 2022 1730HRS SGT

Atrial Fibrillation with Pre-excitation-Induced Biventricular dysfunction in Ebstein's Anomaly

Context:

Ebstein's anomaly is associated with downward displacement of the septal tricuspid leaflet which provides a substrate for an accessory pathway, leading to ventricular dyssynchrony and cardiomyopathy. Until recently, catheter ablation of the accessory pathway in Ebstein's anomaly has not had sufficiently high acute success rate. Currently there are no management guidelines for tachycardia-induced cardiomyopathy in Ebstein's anomaly.

Summary:

In Ebstein's anomaly, wide QRS tachycardias over septal accessory pathways, ventricular tachycardia, ventricular fibrillation, ectopic atrial tachycardias, atrial fibrillation, and atrial flutter can occur. This case reports an Ebstein's anomaly patient with Wolff-Parkinson-White who underwent two separate ablations of the accessory pathway which improved the heart function, and surgical correction was no longer indicated. With right septal or posteromedial pathways, dyssynchrony due to early unopposed septal activation leads to septal hypotrophy which jeopardises left ventricular function. In contrast to left free wall pathways, septal accessory pathways are activated early due to the short conduction time from sinus to atrial pathway, leading to early interventricular septum activation, left ventricular dyssynchrony and dysfunction.

Message:

"Correct identification and treatment of accessory pathway-mediated paroxysmal tachyarrhythmias are essential to prevent sudden cardiac death," shared Dr. Raymond Bernardus.

Session details:

Oral presentation – Heart Failure 1: Saturday, 19th November 2022 3-4pm SGT

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