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Surgical treatment of triple heart valve disease with concomitant CryoMaze through right anterior mini-thoracotomy is feasible

Tareq Aleinati and **M Youssef**
Chest Diseases Hospital, Kuwait

The full-length median sternotomy is the standard approach for single, double and triple valve operations. Right anterior mini-thoracotomy is a well-known minimal access approach for isolated aortic valve replacement or combined aortic and mitral valve surgeries. However, replacing or repairing three valves with concomitant CryoMaze through such an access is not well established. We hereby describe a case of 49-year-old male patient with rheumatic heart disease and a large left atrium associated with permanent atrial fibrillation. He underwent a successful aortic and mitral valve replacement with tricuspid valve repair and concomitant left atrial Maze using argon based Cryoablation through right anterior minithoracotomy. This was approached via the 3rd intercostal space with establishment of cardiopulmonary bypass through peripheral, arterial and venous cannulation. Post-operative echo showed good results and six months later the patient continues to be in normal sinus rhythm. The patient regained full functional capacity in four weeks post-operatively. Thus, we have shown that performing such a complex procedure through minimal access is feasible with successful outcomes.

Biography

Tareq Aleinati is a Consultant Cardiac Surgeon who has completed his training at McMaster University, Hamilton, Canada. He then did fellowships in the fields of complex mitral valve surgeries and heart failure surgical interventions with VAD and heart transplantation at University of Toronto, Toronto and McGill University, Montreal, Canada. He currently works at Chest Diseases Hospital in Kuwait, one of the leading specialized hospitals in Middle East. His areas of expertise include Valvular and Aortic Reconstruction, Heart Failure Surgery, Total Arterial Coronary Artery Revascularization, Atrial Fibrillation Surgery and Minimally Invasive Cardiac Surgery (Aortic, Mitral and Tricuspid valves, Cox Maze ablation, ASD repair).

taleinati@hotmail.com

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