

Hypertrophic Cardiomyopathy (HCM) discussing pathophysiology, diagnosis and management

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Abstract

Hypertrophic Cardiomyopathy (HCM) / Hypertrophic obstructive Cardiomyopathy (HOCM) / Idiopathic hypertrophic sub-aortic stenosis (IHSS) is the most common heritable cardiomyopathy affecting approx 1 in 500 people. HCM is a diagnosis of exclusion; secondary causes of left ventricular hypertrophy (LVH) such as systemic hypertension, valvular and subvalvular aortic stenosis, and infiltrative cardiomyopathies must be ruled out. Patient presentation is phenotypically diverse, ranging from asymptomatic to heart failure or sudden cardiac death (SCD). Left ventricular hypertrophy and abnormal ventricular configuration result in dynamic left ventricular outflow obstruction (gradient >30mmHg) in most patients. The goal of therapeutic interventions is largely to reduce dynamic obstruction, with treatment modalities spanning lifestyle modifications, pharmacotherapies, and septal reduction therapies. Our center at New Delhi has done over 30 successful cases of HCM.



Biography

Dr Elvin Daniel MBBS- 2004, MD-Anesthesiology 2007 and since 2008 working as Cardiac Anesthesiologist in a leading tertiary center of India's capital city- New delhi in Sir Ganga Ram Hospital (SGRH), with 12 years of exposure in the feild of Cardiac- anesthesia i have been part of, team that has successfully managed many important cases in Cardiac surgery (heart-transplant, HCM, ECMO) and Cardiac Cath lab. Now working as Associate Consultant i am actively involved in teaching and research programs of the department and hospital. I have published 5 articles in journals and many more to be done in future.

Speaker Publications:

1. Superior Vena Cava Clamping during Thoracic Surgery: Implications for the Anesthesiologist; Annals of Cardiac Anaesthesia 21(1):85-87, DOI: 10.4103/aca.ACA_125_17
2. Bivalirudin in Venovenous Extracorporeal Membrane Oxygenation; The Journal of extra-corporeal technology 46(1):94-7
3. Rare postoperative delayed malignant hyperthermia after off-pump coronary bypass surgery and brief review of literature; Annals of Cardiac Anaesthesia 19(2):357; DOI: 10.4103/0971-9784.179620
4. Anterior Tracheal Injury During Sternotomy; Journal of cardiothoracic and vascular anesthesia 27(5); DOI: 10.1053/j.jvca.2013.03.038

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