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A rare case of absent right sided inferior vena cava and persistent left sided inferior vena cava in a child of perimembranosus ventricular septal defect

Gajendra Agrawal

Datta Meghe Institute of Higher Education and Research, India

Statement of the problem: To report a rare case of absent right sided Inferior Vena Cava (IVC) and persistent left sided IVC draining into coronary sinus with perimembranous Ventricular Septal Defect (VSD).

Introduction: Left sided IVC is the second most common IVC anomaly observed with a prevalence of 0.2-.0.5% in general population. A case with any congenital heart anomaly and left sided IVC are quite rare. Examples are a case of 31 year old male with atrial septal defect and VSD in 2008 and an 11 month old infant with Complex congenital heart disease: Double outlet right ventricle, Malposed great arteries, VSD, Patent ductus arteriousus, Partial anomalous pulmonary venous return, Persistent left Superior Vena Cava & Interrupted IVC.

Methodology and theoretical orientation: We used Transthoracic Echocardiography (2-D ECHO), CT Venogram and cardiac cath to know the exact anatomical variation of our patient. Also, instead of a commonly used trans-femoral approach to VSD device closure we used a trans-jugular approach to VSD device closure as no literature is available on how to approach for device closure in a left sided IVC.

Findings: In our case report we have a 10 year old child with left sided IVC with Perimembranous VSD moderately restrictive type of 4 mm. On 2-D ECHO we found that right sided IVC was absent. During the cath procedure we used contrast dye and found out that there is a left sided IVC which was draining into coronary sinus. VSD device was implanted through trans-jugular approach.

Conclusion: This is the first case in the world to be reported to the best of our knowledge where a patient with a VSD has a left sided IVC draining into the coronary sinus.

Biography

Gajendra Agrawal studies Cardiology at Care Hospitals Hyderabad. He is currently working as Professor and Head at Datta Meghe Institute of Higher Education and Research, Sawangi, Wardha, India since 2014. He is doing both scientific and research work at this institute and also actively teaching both postgraduate students in Internal Medicine & Cardiology. He has done pioneering work in Renal Artery Denervation in Treatment Resistant Hypertension in India. He has numerous papers in various National and International Journal. He is principal investigator in many Landmark Multinational Drug Trials.