

A RARE CASE OF DEXTROCARDIA WITH SITUS SOLITUS

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INTRODUCTION

- Dextrocardia is a rare congenital abnormality wherein the apex of the heart is positioned towards the right side, and may be associated with significant additional cardiac malformations.
- In dextrocardia with situs solitus, only the position of the heart is inverted; rest all the organs are preserved in normal positions.
- Isolated Dextrocardia with Situs Solitus is much rarer than Dextrocardia with Situs inversus.

CASE REPORT

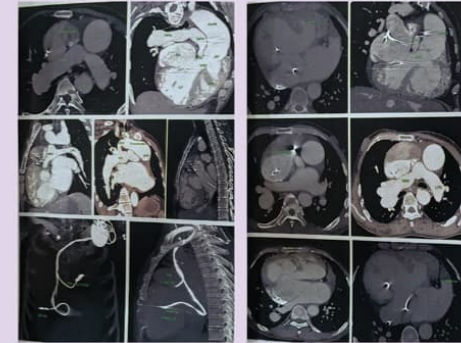
- 36 y/o Male patient, came with complaints of Cough, Breathlessness and bilateral pedal edema.
- He is a known case of Congenital Cyanotic Heart disease with heart towards the right side diagnosed after multiple episodes of breathlessness at the age of 5 years, for which Shunt Surgery was done.
- Large ventricular septal defect, with Patent ductus arteriosus is present. Permanent pacemaker implantation was done in the year 2011, with a pulse generator change in 2014.
- He also has a history of Right Hemiparesis 7 years ago. Phlebotomy is done every 3 months for polycythemia.

FINDINGS

- Pulse Rate : 74 beats/minute
- Blood Pressure : 100/60 mmHg
- Respiratory rate : 20 breaths/min
- SpO₂ : 87% in room air.
- Pulse in the Right Radial artery is weak, with radoradial delay.
- Cyanosis, Clubbing (Grade III), Bilateral pitting pedal edema is present.
- S1 S2 with Ejection Systolic murmur was auscultated.
- Bilateral crepitation and wheeze was also heard.
- Routine Blood investigations showed Polycythemia.
- Dextrocardia and Pulmonary Plethora was visible on Chest X Ray (PA View).



3D CT Angiograph



CT Chest and Abdomen

MANAGEMENT

- Patient was treated with Clopidogrel, diuretics, bronchodilators and other supportive measures.
- Now the patient is symptomatically better and haemodynamically stable.

DISCUSSION

- Dextrocardia is a rare congenital defect, affecting about 1 in 12000 pregnancies. In such individuals, location of the heart is on right side of the chest cavity.
- If isolated dextrocardia presents without any cardiac or extra cardiac anomaly, prognosis is good, irrespective of whether it is situs solitus or situs inversus totalis, although incidence are very rare.