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Isolated Left Ventricular Apical Hypoplasia: A New Congenital Cardiac Anomaly

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background:

Isolated left ventricular apical hypoplasia, also described as non apex forming left ventricle, with no mitral or aortic obstruction, is a newly described anomaly . It was described so far in 5 adult patients, 3 with mild symptoms, 1 with pulmonary edema and one with fatal presentation.

Patients:

We present for the first time, a prenatal echo diagnosis of the anomaly and the post natal echo, clinical presentation and treatment of a patient with this anomaly.

Results:

After birth the patient developed signs of CHF and severe persistent pulmonary hypertension and at the age of 2 month she underwent a stage 1 hypoplastic LV type palliation with a Sano and later on bidirectional glenn shunt and atrial septectomy.

conclusions:

Isolated left ventricular apical hypoplasia is a new rare anomaly with variable severity of LV systolic and diastolic dysfunction. Diagnosis may be done prenatally and counseling should be done accordingly.