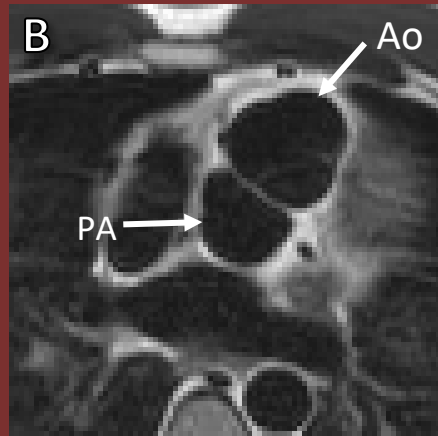
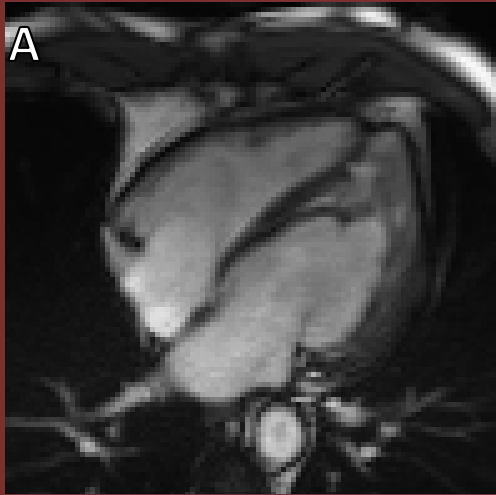


44 yo male presenting with recently diagnosed heart failure



Cardiac MR Images

- A) 4-chamber SSFP image
- Axial T2 dark blood axial images, B) at the level of the pulmonary artery (PA) and aortic (Ao) valve planes and C) slightly more superior at the level of the main pulmonary artery bifurcation
- D) MR angiography 3-D images of the whole heart

Diagnosis: L-Transposition of the Great Arteries

Result of atrioventricular and ventriculoarterial discordance
{S,L,L}

Atrium position is normal (situs)

RIGHT atrium (RA) communicates with mLV

LEFT atrium (LA) communicates with morphologic mRV

Ventricle position is reversed (L-loop)

Morphologic **RIGHT** ventricle (mRV) is on the **LEFT**

Look for the moderator band (yellow arrow) to identify right ventricle

Morphologic **LEFT** ventricle (mLV) is on the **RIGHT**

L-position of Great Vessels (Ao anterior and to the left of PA)

Aorta (Ao) arises from mRV

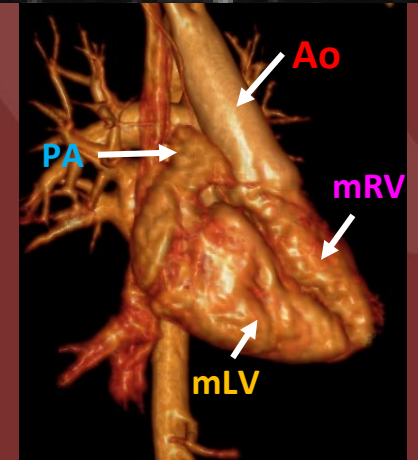
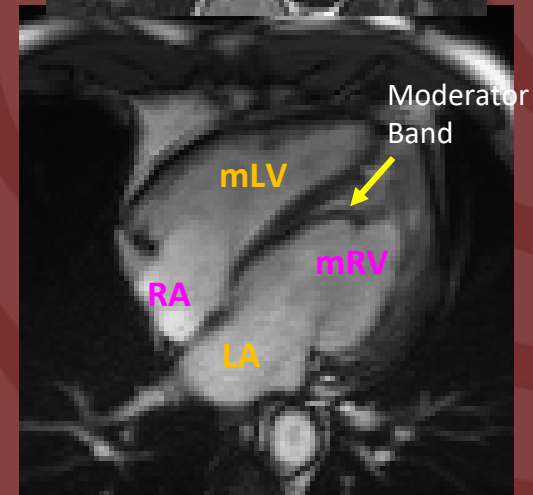
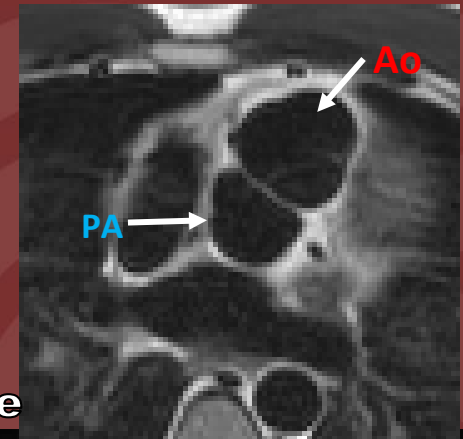
Pulmonary artery (PA) arises from mLV

Complications are often related to systemic ventricular failure as the
right ventricle was not intended to be a systemic ventricle

Morphologic right ventricular hypertrophy and dilatation

Morphologic right ventricular dysfunction

Tricuspid regurgitation



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