

Cardiology Image

An unusual cause of mitral regurgitation

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Mitral valve prolapse (MVP) is a common cause of mitral regurgitation (MR). The myxomatous leaflets look thick and redundant in the majority of cases. In this cardiology image, We present a case of mitral valve prolapse due to anatomical abnormality of the anterior mitral leaflet (AML) resulting in prolapse and moderately severe MR.

A 32 years old female, pregnant at 37 weeks was referred for evaluation. She was in stable condition and not dyspneic. BP 100/70, Pulse 88 bpm. Auscultation of the heart revealed normal heart sounds and late systolic murmur grade 2-3/6. Lung bases were clear and she had no pedal edema. ECG showed sinus rhythm and left atrial abnormality. Echo findings revealed normal LV size and systolic function. LA was dilated 53 mm. RV was normal in size and PAP was normal. The distal half of the anterior leaflet divides into two branches that run parallel to each other forming a fork like appearance (Panel A, B). This deformity resulted in moderately severe MR and dilated LA (Panel C). The posterior leaflet remained unaffected.

