



## PATIENT

Rex Rainey

## SPECIES

Canine

## BREED

Fox Terrier Mix

## SEX

MN

## AGE

12 y

## WEIGHT

10.6 lb

## INTERPRETED BY

Keith Blass, DVM, MS,  
DACVIM (Cardiology)

## IMAGING PERFORMED BY

Crystal Hill

## HOSPITAL NAME

Lakeshore Woods AH

## REFERRING VET

Dr. Masoud

## INVOICE

## DATE

5/8/26

## PRESENTING CLINICAL SIGNS

Experiencing syncope-like episodes. Has had four episodes since mid-January. No murmur.

## ECHOCARDIOGRAPHIC FINDINGS

2D, M-mode, and Doppler study.

Left atrial size is normal. The mitral valve leaflets are mildly thickened and exhibit mild systolic prolapse. A mild jet of eccentric mitral regurgitation is present. Left ventricular dimensions are normal. Left ventricular systolic function is mildly hyperdynamic. The aorta and aortic valve are normal. Right atrial and right ventricular dimensions are normal. The tricuspid valve appears normal, though trace tricuspid regurgitation is present. The pulmonary artery and pulmonic valve are normal. No shunting lesions are visualized. No pericardial effusion or cardiac masses are seen.

LA - 23.8 mm  
LVIDd - 22.5 mm

LVIDs - 12.4 mm  
FS - 44.9%

RA - 15.2 mm  
LVOT - 1.46 m/s

RVOT - 1.20 m/s

## ASSESSMENT/RECOMMENDATIONS

Degenerative mitral valve disease - stage B1

This examination demonstrates mild regurgitation of blood across Rex's mitral valve resulting from degenerative valve disease. The hemodynamic effects of the regurgitation also appear to be mild, as Rex does not have secondary dilation of either of his left heart chambers, and his left ventricular systolic function is well-preserved. As such, Rex's mitral valve disease does not appear to be the cause of his syncope-like episodes, and his current risk for the development of other clinical signs secondary to his disease, such as coughing, exercise intolerance, and labored breathing, appears to be low.

If Rex's episodes are syncope in nature, likely differentials include an intermittent arrhythmia and a vasovagal reflex.

An ECG, or preferably, a Holter/event monitor is recommended.

No therapy is recommended at this stage of Rex's mitral valve disease. If vasovagal syncope is present, therapy with theophylline (50 mg BID) may potentially be beneficial, though, I would rule out the presence of premature beats before considering starting this medication.

A recheck echocardiogram is recommended in 6 months.

