



### PRESENTING CLINICAL SIGNS

History: Recheck degenerative valve disease. Has recently experienced collapsing episodes. Radiographs show a large, globoid heart. Receiving pimboendan 1.25 mg am, 0.625 mg pm.

DATE

1/25/23

### ECHOCARDIOGRAPHIC FINDINGS

2D, M-mode, and Doppler study. This study is compared to the one performed 7/20/21.

### PERFORMED BY:

Dr. Brian Barnes

### INTERPRETED BY

Keith Blass, DVM,  
MS, DACVIM  
(Cardiology)

There is moderate left atrial dilation. The mitral valve leaflets are thickened and exhibit systolic prolapse. A moderate jet of eccentric mitral regurgitation is present. There is mild to moderate left ventricular dilation. Left ventricular systolic function is hyperdynamic. The aorta and aortic valve appear normal, though trace aortic insufficiency is present. Right atrial and right ventricular dimensions are normal. The tricuspid valve leaflets are mildly thickened, and a mild jet of tricuspid regurgitation is present. TR velocity is consistent with the presence of moderate pulmonary hypertension (PG 62 mmHg). The pulmonary artery and pulmonic valve appear normal, though trace pulmonic insufficiency is present. Very mild pericardial effusion is present. No cardiac masses are seen.

ECG during echo: Sinus rhythm

### PATIENT

Star Redman

LA - 27.5 mm (prev. 23.1 mm)  
LVIDd - 25.1 mm (prev. 22.2 mm)  
LVIDs - 10.1 mm (prev. 14.4 mm)  
FS - 59.8% (prev. 35%)

### SPECIES

Canine

RA - 13.1 mm (prev. 14.1 mm)  
LVOT - 1.09 m/s  
RVOT - 1.00 m/s  
TR - 3.94 m/s

### BREED

Chihuahua

### ASSESSMENT/RECOMMENDATIONS

Degenerative mitral and tricuspid valve disease  
Pulmonary hypertension

### SEX

FS

This examination demonstrates some progression of Star's mitral valve disease over the past year and a half, as she now has moderate dilation of her left atrium and mild to moderate dilation of her left ventricle. Given this, it's possible that Star's mitral valve disease could be contributing to her collapsing episodes. Star's tricuspid valve disease has not progressed, however, her TR velocity is now consistent with the presence of moderate pulmonary hypertension, and it's very likely that her pulmonary hypertension is contributing to Star's collapsing episodes.

### AGE

13 y

Also seen in this exam is very mild pericardial effusion. The effusion does not appear to be causing cardiac tamponade, therefore, it's unlikely to be contributing to Star's collapsing episodes. The effusion is unlikely to be secondary to a mitral valve tear or right-sided congestive heart failure, therefore, consideration should be given to neoplasia and idiopathic effusion as likely differentials. A cardiac CT can be considered to more comprehensively evaluate for the presence of a cardiac neoplasm.

### WEIGHT

2.34 kg

I recommend adding sildenafil (5 mg BID) to Star's current therapy with pimobendan, as this medication should reduce her risk for syncope secondary to her pulmonary hypertension.

### HOSPITAL NAME

Westview VH

A FAST scan to reevaluate Star's pericardial effusion is recommended in 2 weeks. A comprehensive recheck echocardiogram is recommended in 6 months. Thoracic radiographs are recommended if Star experiences respiratory clinical signs.

### REFERRING VET

Dr. Barnes



DATE

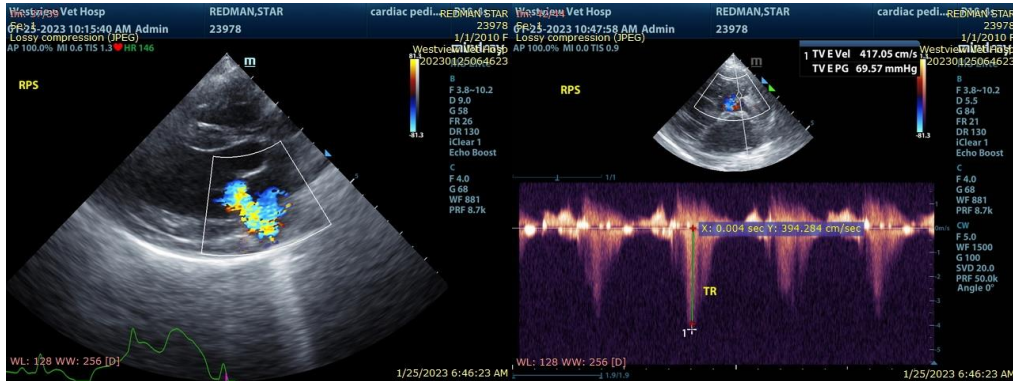
1/25/23

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PATIENT

Star Redman

The information and recommendations provided are based on the images presented by the referring veterinarian. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

SPECIES

Canine

Thank you for this referral. If the clinical or image interpretation does not parallel your findings or if I can be of any further assistance please contact me.

BREED

Chihuahua

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SEX

FS

AGE

13 y

WEIGHT

2.34 kg

HOSPITAL NAME

Westview VH

REFERRING VET

Dr. Barnes