



**PRESENTING CLINICAL SIGNS**

History: New grade 3/6 left-sided murmur. Easily induced tracheal cough. Pre-anesthetic evaluation (dental). Sedated for exam with acepromazine and butorphanol.

**DATE**

8/11/22

**ECHOCARDIOGRAPHIC FINDINGS**

2D, M-mode, and Doppler study.

**PERFORMED BY:**

Dr. Brian Barnes

**INTERPRETED BY**

Keith Blass, DVM,  
MS, DACVIM  
(Cardiology)

There is mild left atrial dilation. The mitral valve leaflets are mildly thickened and exhibit mild systolic prolapse. A mild to moderate jet of eccentric mitral regurgitation is present. There is mild left ventricular dilation. Left ventricular systolic function is hyperdynamic. The aorta and aortic valve are normal. 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 does not suggest the presence of pulmonary hypertension. The pulmonary artery and pulmonic valve appear normal, though trace pulmonic insufficiency is present. No shunting lesions are visualized. No pericardial effusion or cardiac masses are seen.

ECG during echo: Sinus arrhythmia

**PATIENT**

Pippin Glover

LA - 20.8 mm  
LVIDd - 20.6 mm  
LVIDs - 10.8 mm  
FS - 47.6%  
LVOT - 0.92 m/s  
RVOT - 0.65 m/s  
TR - 2.19 m/s

**SPECIES**

Canine

**ASSESSMENT/RECOMMENDATIONS**

**BREED**

Chihuahua

Degenerative mitral and tricuspid valve disease

This examination demonstrates regurgitation of blood across Pippin's mitral and tricuspid valves resulting from degenerative valve disease. Pippin's tricuspid valve disease is mild, and appears to be well-compensated at this time. His mitral valve disease is a bit more advanced, as Pippin has mild to moderate mitral regurgitation present, with mild secondary dilation of both his left atrium and left ventricle, though his left ventricular systolic function is well-preserved. As only mild left heart chamber dilation is present, Pippin's mitral valve disease appears to be well-compensated, and his current risk for the development of clinical signs secondary to it, such as coughing, exercise intolerance, syncope, and labored breathing, appears to be relatively low.

**SEX**

MN

**AGE**

14 y

Pippin's cardiovascular risk for general anesthesia is mildly increased based on this exam, therefore, some precautions should be taken in order to minimize this risk. I recommend avoiding the use of alpha-2 agonists, ketamine, and telazol in the anesthetic protocol, as well as reducing the IV fluid rate by 25%. If possible, monitoring of heart rhythm, blood pressure, and pulse oximetry are recommended during the procedure.

**WEIGHT**

2.33 kg

I recommend starting Pippin on pimobendan (0.625 mg BID), as this medication should help to slow the progression of his mitral valve disease, as well as decrease his risk for general anesthesia.

**HOSPITAL NAME**

Westview VH

A recheck echocardiogram is recommended in 9 months. Thoracic radiographs are recommended if Pippin experiences respiratory clinical signs.

**REFERRING VET**

Dr. Barnes



DATE

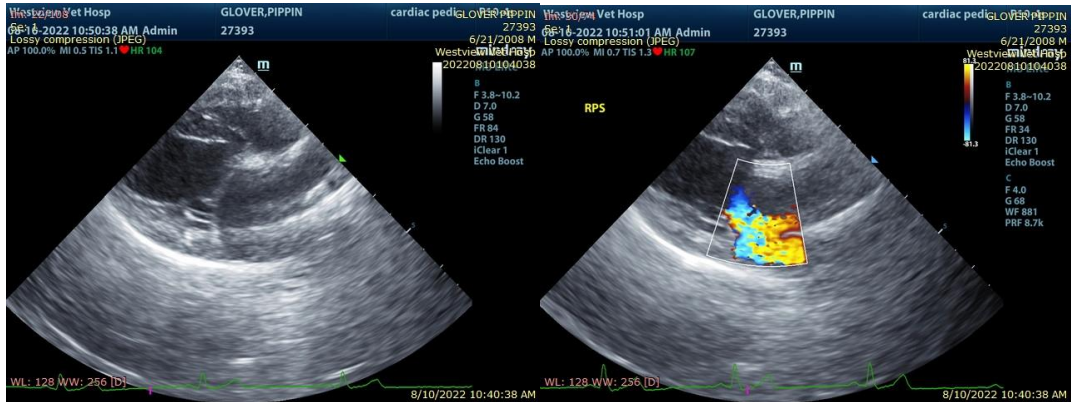
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The information and recommendations provided are based on the images presented by the referring veterinarian. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

PATIENT

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.

Pippin Glover

SPECIES

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631-804-5754

Canine

BREED

Chihuahua

SEX

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AGE

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WEIGHT

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HOSPITAL NAME

Westview VH

REFERRING VET

Dr. Barnes