

**RESENTING CLINICAL SIGNS**

History: Grade 2-3/6 left apical systolic murmur. Coughing when stressed. Cough easily induced with tracheal palpation. Radiographs show severe tracheal and bronchial collapse, as well as mild cardiomegaly. Currently being treated with Tetra/Neo/Pred, codeine, and theophylline.

**DATE**

10/13/21

**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 thickened and exhibit mild systolic prolapse. A mild to moderate jet of 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 pericardial effusion or cardiac masses are seen.

ECG during echo: Sinus/sinus arrhythmia

**PATIENT**

Lexi Macauley

LA - 23.6 mm  
LVIDd - 22.0 mm  
LVIDs - 11.8 mm  
FS - 46%  
LVOT - 1.04 m/s  
RVOT - 0.80 m/s  
TR - 2.34 m/s

**SPECIES**

Canine

**ASSESSMENT/RECOMMENDATIONS**

Degenerative mitral and tricuspid valve disease

**BREED**

Pomeranian

This examination demonstrates regurgitation of blood across Lexi's mitral and tricuspid valves resulting from degenerative valve disease. Lexi's tricuspid valve disease is mild, and appears to be well-compensated at this time. Her mitral valve disease is a bit more advanced, as Lexi has mild to moderate mitral regurgitation present, with mild secondary dilation of both her left atrium and left ventricle. As only mild left heart chamber dilation is present, Lexi's mitral valve disease appears to be well-compensated, and it's unlikely that her disease is contributing to her cough.

**SEX**

FS

I recommend starting Lexi on pimobendan (0.625 mg BID), as this medication should help to slow the progression of her valvular diseases.

**AGE**

11 y

A recheck (X-ray +/- echocardiogram) is recommended in 9 months, sooner if new clinical signs compatible with cardiac dysfunction develop.

**WEIGHT**

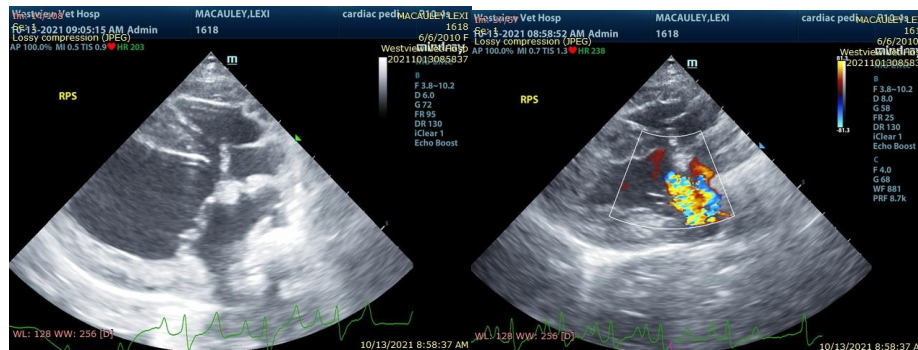
2.67 kg

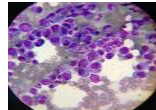
**HOSPITAL NAME**

Westview VH

**REFERRING VET**

Dr. Barnes





**DATE**

10/13/21

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.

**PERFORMED BY:**

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.

Dr. Brian Barnes

**INTERPRETED BY**

**Keith Blass, DVM, MS, DACVIM (Cardiology)**  
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Keith Blass, DVM,  
MS, DACVIM  
(Cardiology)

**PATIENT**

Lexi Macauley

**SPECIES**

Canine

**BREED**

Pomeranian

**SEX**

FS

**AGE**

11 y

**WEIGHT**

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