



**PATIENT**

Xena McFarlane

**SPECIES**

Canine

**BREED**

Maltese Mix

**SEX**

Spayed Female

**AGE**

10 Years

**WEIGHT**

17 lbs

**INTERPRETED BY**

Bradley Harris, DVM,  
DACVECC, DACVIM  
(cardiology)

**IMAGING PERFORMED BY**

Julia Bakker DVM

**HOSPITAL NAME**

Orange Blossom  
Veterinary Imaging

**REFERRING VET**

Frieda Hottenstine  
DVM

**INVOICE**

16105

**DATE**

05/11/26

**PRESENTING CLINICAL SIGNS**

Grade III/V, systolic murmur. Patient presented for possible seizure like episode - consider syncope vs seizure. Thoracic radiographs attached. Patient takes enalapril and Vetmedin

**ULTRASONOGRAPHIC EXAMINATION OF THE HEART**

CANINE CARDIAC PARAMETERS	BW	HR BPM	LAD 4 ch Long	RAD 4 ch Long	La/Ao Heart Base	LVIDd	LVIDs
NORMAL PARAMETER		50-100			<1.6		
PATIENT	7.73	NM	3.10	1.81	1.41	3.11	1.26
CANINE CARDIAC PARAMETERS	FS	EPSS	PV V MAX (m/s)	AV V Max (m/sec)	MR Vmax	TR Vmax	RPA distensibility (normal >30%)
NORMAL PARAMETER	28-40	<0.6	0.7-1.6	0.7-1.7	4.5-5.5	< 2.7	
PATIENT	59	0.1	1.3	2.5	NM	NM	33

**Cardiac Presentation**

The left atrium is normal in dimension. The left ventricle is upper limits of normal in dimension, with normal systolic function. The right atrium and ventricle are normal in dimension, with normal systolic function. The anterior and posterior mitral valve leaflets are thickened and redundant consistent with myxomatous changes, and there is mild prolapse. There is mild mitral regurgitation identified. The tricuspid valve leaflets are minimally thickened, with trivial tricuspid regurgitation and no evidence of pulmonary hypertension. The left ventricular outflow tract demonstrated normal laminar flow and the visible aorta is unremarkable. The right ventricular outflow tract assessment revealed normal laminar flow, with appropriate main pulmonary artery diameter and right pulmonary artery distensibility. There is no pulmonic and no aortic valve insufficiency identified. There is no visible pericardial, pleural, or free peritoneal fluid documented. No evidence of hepatic venous congestion is noted. The cardiac chambers, pericardial and visible extra-cardiac regions were free of masses, spontaneous echo contrast, or thrombi. No gross pulmonary pathology is identified on thoracic radiographs.

**ULTRASONOGRAPHIC FINDINGS**

- These findings are consistent with degenerative/myxomatous mitral valve disease with minimal to mild hemodynamic effects consistent with ACVIM Stage B1 disease. It is unlikely that any current morbidity is of cardiac origin.

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**



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Given these findings, no cardiac therapy is recommended. Given the current use of cardiac medications, a discussion with the owner is warranted on the merits of discontinuing vs maintaining current treatment protocol. There are no cardiac contraindications to anesthesia, fluid therapy, vasopressor therapy, or corticosteroids as indicated for further assessment and treatment. If not already performed, baseline blood pressure is recommended. A recheck cardiac evaluation is recommended in 6 months.

### Anesthesia considerations:

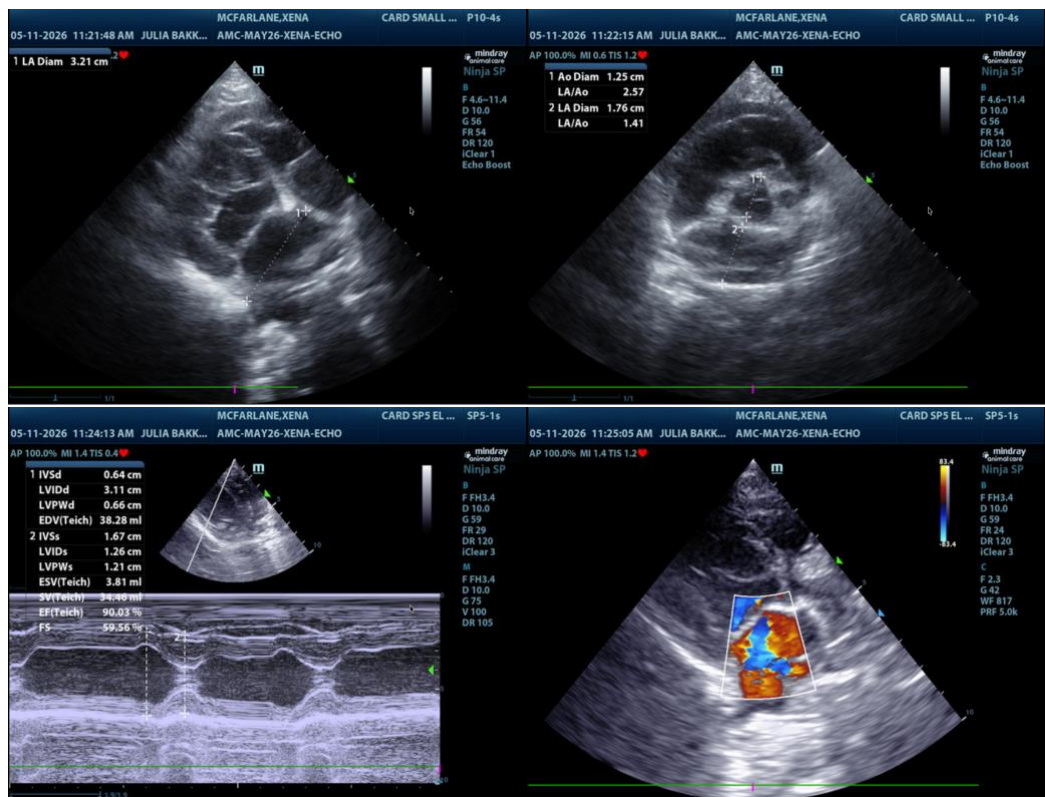
If anesthesia is necessary, alpha-2 agonists, ketamine, high dose acepromazine, and Telazol should be avoided. Fluid therapy during anesthesia should be considered at a conservative rate (e.g., 5 ml/kg/hour) if possible.

### Diet:

A high-quality food from Hills, Royal Canin, Science Diet, Eukanuba, Iams, or Purina that is highly palatable with adequate protein and calories for maintaining optimal body condition is reasonable.

### Activity:

No special considerations are necessary.



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



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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.

**Bradley Harris, DVM, DACVECC, DACVIM (cardiology)**

[info@SonoPath.com](mailto:info@SonoPath.com)