



**PATIENT**

Bruno Njuyen

**SPECIES**

Canine

**BREED**

Yorkie

**SEX**

Neutered Male

**AGE**

9 Years

**WEIGHT**

5.6 kg

**INTERPRETED BY**

Brad Harris, DVM,  
 DACVECC, DACVIM  
 (cardiology)

**IMAGING PERFORMED BY**

Kelly Reschny

**HOSPITAL NAME**

BPH Ancaster

**REFERRING VET**

Dr. David-Steele

**INVOICE**

74411

**DATE**

4/10/26

**PRESENTING CLINICAL SIGNS**

Cardiovascular: HR was 120 BPM with a regular rhythm. A new grade 3/6 systolic heart murmur was auscultated, with the point of maximal intensity over the left apical region, consistent with a mitral valve origin. This is a new finding, as no murmur was detected during the examination one month prior in March 2026. Respiratory: The RR was mildly elevated at 55 BPM, attributed to stress. Lungs were clear on auscultation bilaterally. New Grade 3/6 Heart Murmur - DDx: Degenerative mitral valve disease, endocarditis, functional/flow murmur. The acute onset and significant grade of this murmur are concerning. Given the signalment, degenerative mitral valve disease is the leading differential. The absence of this murmur one month ago warrants urgent investigation to determine the underlying

**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	5.6	NM	2.63	NM	1.25	2.26	1.23
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	46	0.2	0.8	1.2	6.6	NM	NM

**Cardiac Presentation**

The left atrium is normal in dimension. The left ventricle is 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 no significant prolapse. There is moderate 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.



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**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**

Given these findings, no cardiac therapy is recommended. 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 thoracic radiographs and blood pressure are recommended. A recheck echocardiogram is recommended in 6 months.

Anesthesia considerations:

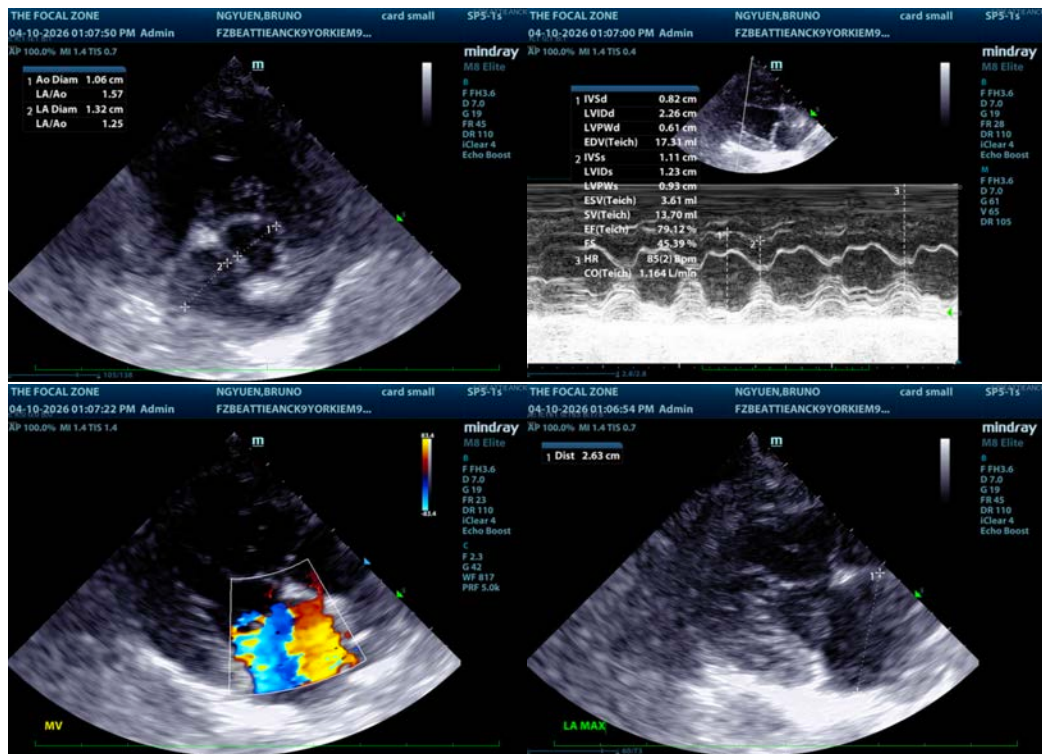
If anesthesia is necessary, alpha-2 agonists, ketamine, high dose acepromazine, and Telazol should be avoided. Fluid therapy during anesthesia should be considered at a conservative rate (e.g., 5 ml/kg/hour) if possible.

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.





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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.

**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.

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

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