

**PATIENT**

Minnie Burns

**SPECIES**

Canine

**BREED**

Chihuahua Mix

**SEX**

Spayed female

**AGE**

10 years

**WEIGHT**

10 lbs

**INTERPRETED BY**

Bradley Harris, DVM,  
DACVECC, DACVIM  
(cardiology)

**IMAGING PERFORMED BY**

Sara Hansen

**HOSPITAL NAME**

VCA McKenzie AH

**REFERRING VET**

Dr. Arpaia

**INVOICE**

69623

**DATE**

12/12/25

**PRESENTING CLINICAL SIGNS**

History: Clinical Exam Findings: Grade 3/6 systolic murmur noted on preventative exam - Initially auscultated in 2023 as Grade 1/6 systolic murmur. Asymptomatic Severe degenerative joint disease left CF joint Periodontal disease ABNORMAL Labwork Values no current labwork For ECHO Only: Blood Pressure submitted day of procedure HR/RR/BP: 130/40 Is there a Heart Murmur? If so, please grade. Grade 3/6 Current Medications Gabapentin 100mg

**ULTRASONOGRAPHIC EXAMINATION OF THE HEART**

The left atrium is normal in dimension. The left ventricle is normal in dimension, with normal systolic function. The right atrium and ventricle are subjectively normal in dimension and systolic function. The mitral valve is thickened and redundant consistent with myxomatous changes, and there is minimal prolapse. There is evidence of mild mitral regurgitation. 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, and appropriate diameter and distensibility. There is no evidence of semilunar valve insufficiency. There is no visible pericardial, pleural, or free peritoneal fluid noted. The cardiac chambers, pericardial and visible extra-cardiac regions were free of masses, spontaneous echo contrast, or thrombi.

CANINE CARDIAC PARAMETERS	Body Weight kg	HR BPM	LAD 4 ch Long	RAD 4 ch Long	La/Ao Heart Base	LVIDd	LVIDs
NORMAL PARAMETER		50-100			<1.6		
PATIENT	4.55 kg	140	2.63	1.91	1.32	2.39	1.35
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	44	0.2	1.2	1.7	6.0	2.9	36

**EKG:**

A six-lead ECG is available for review. The average heart rate is approximately 140bpm, with a normal mean electrical axis. The QRS complexes are sinus in origin (<70ms), with appropriate P-Q intervals (80ms). There are irregular R-R intervals, consistent with respiratory variation. There is no evidence of atrial or ventricular ectopy, nor any atrioventricular block. The underlying rhythm is most consistent with a respiratory sinus arrhythmia (normal physiologic change).



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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:

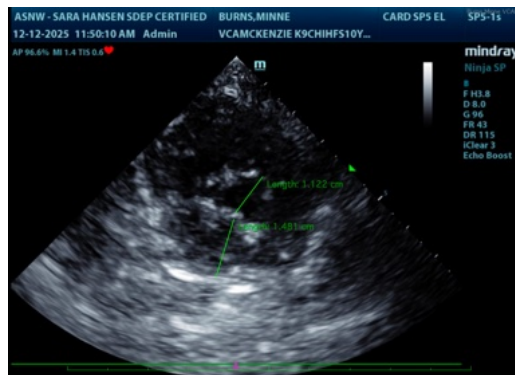
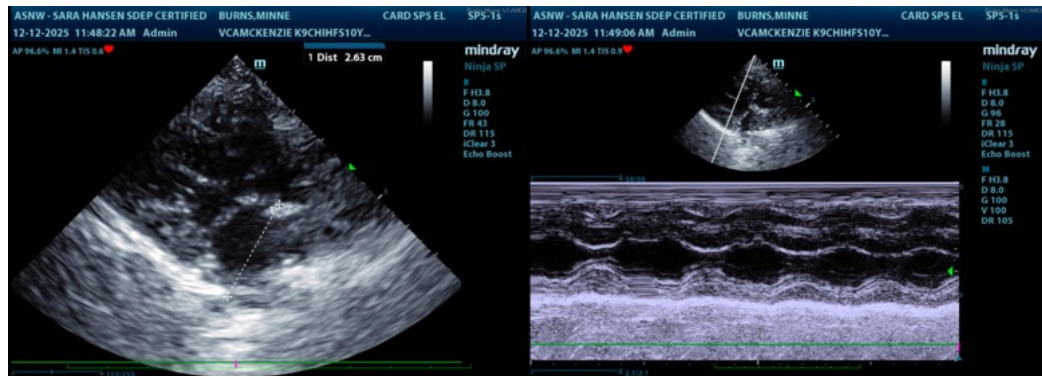
If anesthesia is necessary, alpha-2 agonists, ketamine, high dose acepromazine, and Telazol should be avoided. Fluid therapy during anesthesia should be considered at a conservative rate (e.g., 5 ml/kg/hour) if possible.

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.

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)