



PATIENT

Bella Armijo

SPECIES

Canine

BREED

Chihuahua

SEX

Spayed female

AGE

9 years

WEIGHT

15 lbs

INTERPRETED BY

Bradley Harris, DVM,
DACVECC, DACVIM
(cardiology)

IMAGING PERFORMED BY

Cole England, DVM

HOSPITAL NAME

Blue Cross AC

REFERRING VET

Dr. Andrews

INVOICE

69161

DATE

11/28/25

PRESENTING CLINICAL SIGNS

History: Diagnosed as diabetic in June 2025. Has had a murmur with no symptoms. Now stable diabetic and would like to get bilateral phaco. Echo for pre-anesthetic eval.

Abnormal PE/Chem/CBC/UA Results: Grade 2-3 murmur, cataracts bilaterally. No other information provided.

ULTRASONOGRAPHIC EXAMINATION OF THE HEART

The left atrium is upper limits of 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 subjectively normal with no 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 | 6.82 kg | NM | 3.07 | 2.09 | 1.36 | 2.88 | 1.28 |
| 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 | 56 | 0.3 | 0.9 | 1.0 | NM | NM | NM |

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



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and treatment. If not already performed, baseline thoracic radiographs and blood pressure are recommended. A recheck echocardiogram is recommended in 6 months.

Anesthesia considerations:

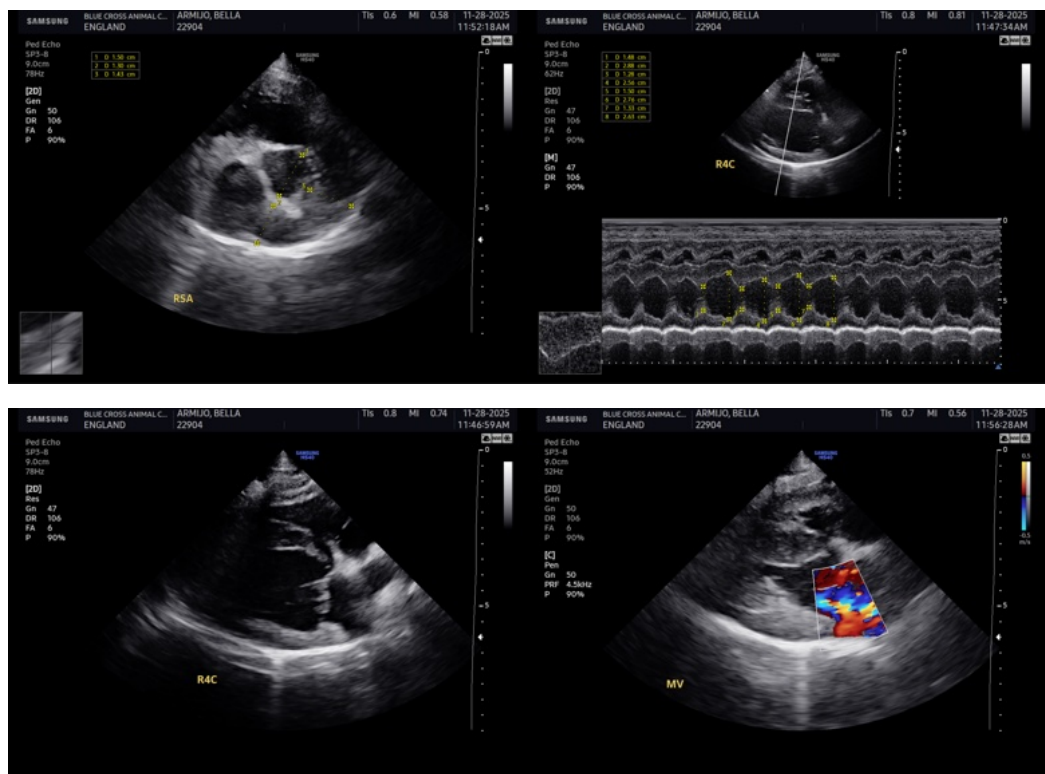
If anesthesia is necessary, alpha-2 agonists, ketamine, high dose acepromazine, and Telazol should be avoided. Fluid therapy during anesthesia should be considered at a conservative rate (e.g., 5 ml/kg/hour) if possible.

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.



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)

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