



PATIENT

Churro Miranda

SPECIES

Canine

BREED

American Bulldog

SEX

Intact Female

AGE

4 Years

WEIGHT

54.4 Pounds

INTERPRETED BY

Bradley Harris, DVM,
DACVECC, DACVIM
(cardiology)

IMAGING PERFORMED BY

Cole Englund, DVM

HOSPITAL NAME

Blue Cross AC

REFERRING VET

Dr. Rodriguez

INVOICE

35563

DATE

1/23/26

PRESENTING CLINICAL SIGNS

- Grade 4/6 murmur (bilateral) noted at annual exam.
- Pt asymptomatic per client w/ a history of atopy
- Prepping for OVH and wants pre-anesthetic workup of murmur
- No current meds

Abnormal PE/Chem/CBC/UA Results: No bloodwork available BCS 9/9; Murmur 4/6 bilateral.

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	24.73	NM	4.38	3.04	1.11	4.22	3.01
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	29	0.5	0.8	1.5	NM	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 appropriately thin with adequate apposition, intact chordae, and there is no significant prolapse. There is no significant mitral regurgitation identified. The tricuspid valve leaflets are appropriately thin with adequate apposition, intact chordae, no significant 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 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



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chambers, pericardial and visible extra-cardiac regions were free of masses, spontaneous echo contrast, or thrombi.

ULTRASONOGRAPHIC FINDINGS

- These findings are consistent with an essentially normal echocardiogram. Any murmur will be considered functional in origin. No cardiac cause of the morbidity is identified.

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Recommendations:

Given these findings, no cardiac therapy is recommended. There are no cardiac contraindications to anesthesia, fluid therapy or corticosteroid therapy, as indicated for further assessment and treatment. However, given the new onset of the murmur, the patients' age, and difficulties imaging this breed, a repeat evaluation by a cardiologist is recommended if clinical signs develop, or there is radiographic concern for cardiomegaly on thoracic radiographs.

Anesthesia considerations:

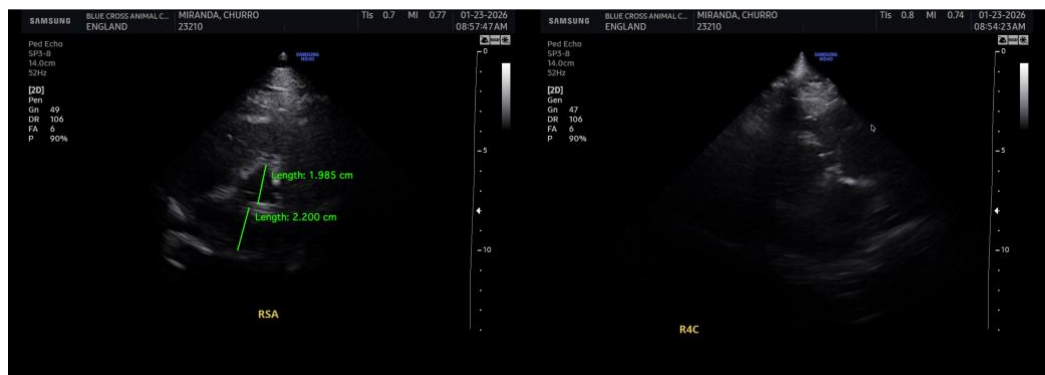
No special considerations are necessary.

Diet:

No special considerations are necessary. Any high-quality food from Hills, Royal Canin, Science Diet, Eukanuba, Iams, or Purina 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)

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