



PATIENT

Luca Fernandez

SPECIES

Canine

BREED

Shih Tzu Mix

SEX

Neutered male

AGE

1 year

WEIGHT

-

INTERPRETED BY

Bradley Harris, DVM,
 DACVECC, DACVIM
 (cardiology)

IMAGING PERFORMED BY

Kerri Becker

HOSPITAL NAME

Englewood Cliffs VH

REFERRING VET

Dr. Park

INVOICE

70018

DATE

1/12/26

PRESENTING CLINICAL SIGNS

History: Heartworm + Started slow kill method 10/31/25 with prooheart 12 inj.

ULTRASONOGRAPHIC EXAMINATION OF THE HEART

The left atrium is normal in dimension. The left ventricle is subjectively normal in dimension with normal systolic function, however without an accompanying body weight, the assessment is incomplete. The right atrium and ventricle are subjectively normal in dimension and systolic function. The anterior and posterior mitral and tricuspid valve leaflets presented normal linear structure, extension in systole, and union in diastole without regurgitation, prolapse, or myxomatous changes noted. 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 are questionable heartworms within the pulmonary artery, but this is not definitively/consistently visualized. 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	Not provided	NM	2.58	2.12	1.34	2.71	1.82
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	33	0.2	0.5	0.8	NM	NM	NM

ULTRASONOGRAPHIC FINDINGS

These findings are consistent with an essentially normal echocardiogram. Any murmur will be considered functional in origin. There is no discrete evidence of cardiac effects of the reported heartworm disease noted on this study.

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS



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Given these findings, no cardiac therapy is recommended. Given the puppy's age, a fast kill approach to the heartworm infestation, per the guidelines of the American Heartworm Society (AHS) <https://www.heartwormsociety.org/resources/54-heartworm-guidelines/375-canine-heartworm-guidelines>, should be considered. However this requires strict cage confinement for a prolonged period, and if this is not feasible, then the risks of therapy may outweigh the benefits. Consider the addition of doxycycline per the AHS protocol. There are no cardiac contraindications to fluid therapy or corticosteroid therapy, as indicated for further assessment and treatment. No specific cardiac recheck is recommended unless a murmur or clinical signs of heart disease develop.

Anesthesia considerations:

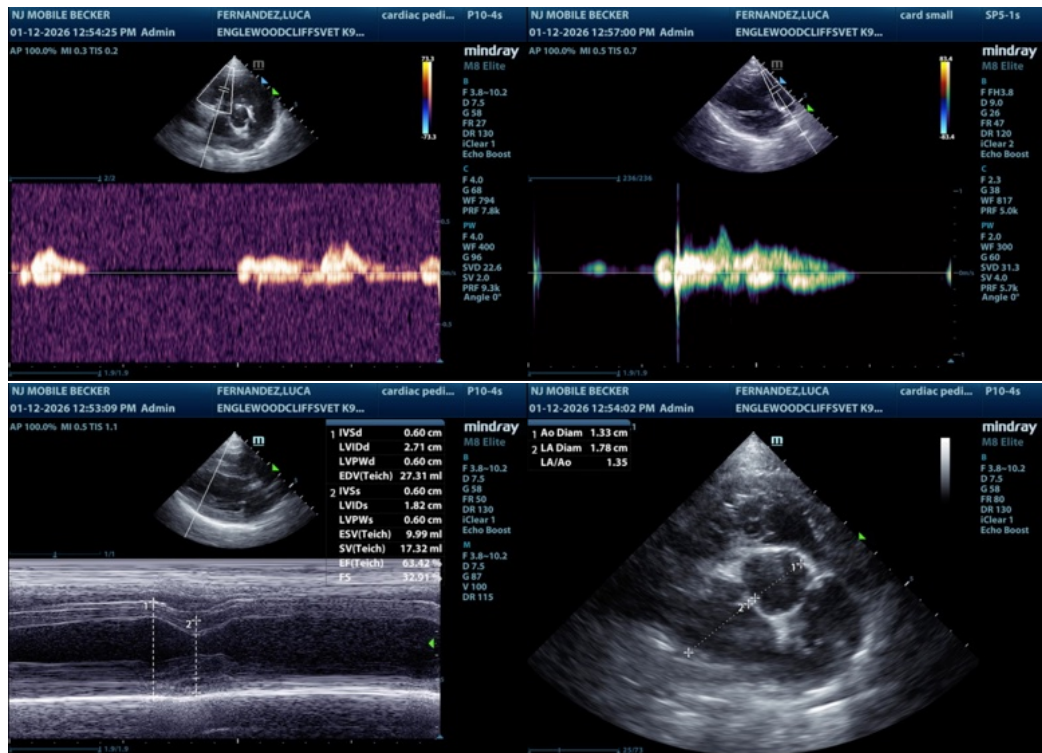
No special considerations are necessary.

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 at this time.





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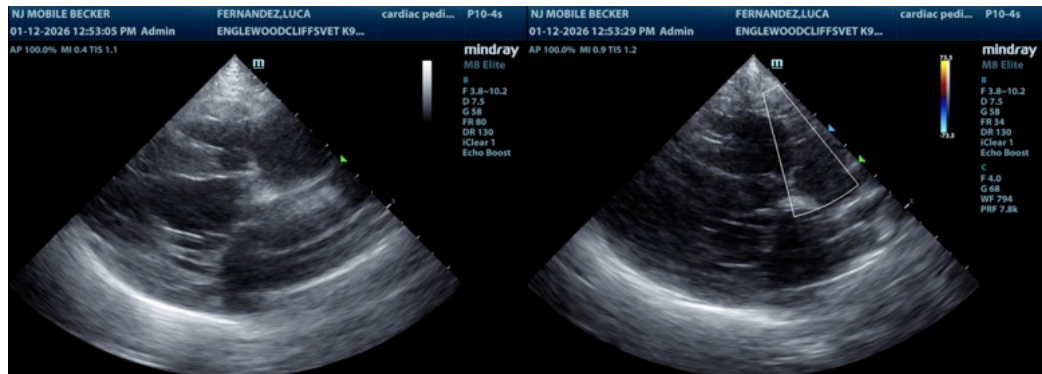
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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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