



PATIENT

Luna Kays

SPECIES

Canine

BREED

Boxer

SEX

Spayed Female

AGE

2 Years

WEIGHT

49.5 Pounds

INTERPRETED BY

James Wood, DVM,
DACVIM (Cardiology)

IMAGING PERFORMED BY

Arielle Roldan, CVT

HOSPITAL NAME

Milford AH

REFERRING VET

Sean Grasso, DVM

INVOICE

37063

DATE

5/11/26

PRESENTING CLINICAL SIGNS

History: Patient presented for dental procedure and bloodwork revealed abnormalities 3/30/2026. Also discovered hypothyroid at that time, started on treatment. Otherwise, no history of cardiac issue/ no murmur noted.

Meds: levothyroxine 0.8 mg 1/2 PO SID

Abnormal PE/Chem/CBC/UA Results: c.NT-proBNP 1726.1 500 - 10000 pmol/L Gray Zone cTnl 0.55 0.01 - 20 ng/mL Abnormal cTSH 0.51 0.25 - 5 ng/mL High BUN 40.86 7.03 - 26.98 mg/dL HIGH CREA 2.3 0.3 - 1.8 mg/dL HIGH AMY 2660 400 - 1500 U/L HIGH CREA 2.2 0.3 - 1.8 mg/dL HIGH

ULTRASONOGRAPHIC EXAMINATION OF THE HEART

CANINE CARDIAC PARAMETERS	LA long axis	LAmxN	Ao long axis	LA/AO (Heart Base; Swe, short axis)	LA/AO long axis	LVIDd	LVIDdN
NORMAL PARAMETER		<1.57		<1.6	<2.5		<1.7
PATIENT	3.4	1.3	--	--	--	3.26	1.22
CARDIAC PARAMETERS	Body Weight (kg)	AV VMAX (m/s)	PV MAX (m/s)	MR VMAX (m/s)	TR VMAX (m/s)	FS (%)	LVIDsN
NORMAL PARAMETER		0.7-1.7	0.7-1.6			22 - 49%	<0.9
PATIENT	22.5	--	1.6	--	--	34.9	0.63
CARDIAC PARAMETERS	HR (bpm)	MV E (m/s)	MV A (m/s)	MV E/A (m/s)	EF (%)	IVSdN	LVFWdN
NORMAL PARAMETER						<0.6	<0.6
PATIENT	--	--	--	--	--	0.4	0.44

**No other measurements were obtained.

Cardiac Presentation

The mitral valve leaflets are normal and there is no mitral regurgitation. Leaflet prolapse is not identified. The left atrial size is normal. Left ventricular systolic function is within normal limits. Left ventricular diastolic function was not assessed. There is normal right atrial size without evidence of tricuspid regurgitation. There is no prolapse of the tricuspid valve leaflets and no evidence of



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pulmonary hypertension on today's evaluation. The right ventricle subjectively appears normal in structure and function. The transaortic flow profile and velocity were not obtained. Similarly, the LV outflow tract is not fully inspected on this study. The pulmonary valve has normal morphology, and the corresponding outflow velocities are within normal limits. There is no evidence of pulmonary valve insufficiency. The aorta appears normal. The pulmonary artery and associated branches appear normal. There is no evidence of pleural effusion, pericardial effusion, or intracardiac masses.

ULTRASONOGRAPHIC FINDINGS

- Apparently normal echocardiogram

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

The study does not reveal any significant underlying structural cardiac disease, though some areas were not fully visualized on the echo. No cardiac medications are recommended at this time. Follow-up is not necessary unless additional concerns for cardiac disease arise, such as a new murmur, arrhythmia, or other concern for cardiac disease. There's no cardiac contraindication to anesthesia based on this study.

Based on the breed routine screening for arrhythmogenic cardiomyopathy, which would include an echocardiogram, ECG, and ideally Holter monitor, should be considered annually after the age of 5 years old.



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.

James Wood, DVM, DACVIM (Cardiology)

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