



PATIENT

Monkey Hawkins

SPECIES

Feline

BREED

Domestic Shorthair

SEX

Neutered male

AGE

8 years

WEIGHT

12.5 lbs

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Jack Reese

HOSPITAL NAME

Willow Run VC

REFERRING VET

Dr. Reese

INVOICE

75062

DATE

4/30/26

PRESENTING CLINICAL SIGNS

History: Patient presented for yearly wellness and evaluation for possible dental procedure. Grade III/VI holosystolic heart murmur noted on physical exam. Patient asymptomatic at home according to O. Recommended further work up prior to considering anesthesia.
ALP 64 (12-59) proBNP 253 (<100) Rest of labwork unremarkable

ULTRASONOGRAPHIC EXAMINATION OF THE HEART

The echocardiogram in this patient demonstrated normal **left atrial** size and structure with no evidence of “smoke” or thrombi. The cranial and caudal **mitral** valve leaflets appeared mildly thickened with some insufficiency noted on Doppler. Minor **left ventricular** hypertrophy was noted. **Myocardial** remodeling was noted. **Contractility** of the ventricular walls was considered excessive for this patient evidenced by the elevated fractional shortening measurement. The **left ventricular outflow** tract demonstrated turbulent laminar flow. Subjective assessment of the **right atrium** and auricle revealed normal size, structure and content. No evidence of masses was noted. Mild **tricuspid** insufficiency was noted. The **right ventricle** was of normal size with normal chordae structure, myocardial echogenicity and thickness. **Pulmonic** tract assessment revealed normal valve structure, laminar flow, and diameter. No visible **pericardial** or free pleura fluid was noted. No echographically detectable evidence of infiltrative disease was visible. The **mediastinum** was free of masses in the visible window. The patient was tachycardic.

FELINE CARDIAC PARAMETERS	BODY WEIGHT	HR (BPM)	IVSd (cm)	LVIDd (cm)	LVWd (cm)	FS (%)	EF (%)
NORMAL PARAMETER	-----	150-240	0.3-0.6	1.0-2.1	0.25-0.6	35-67	80-100
PATIENT	12.5 lbs	NM	0.57	1.3	0.54		
FELINE CARDIAC PARAMETERS	LA/AO (M-mode)	LA/AO HEART BASE (Sisson)	LAD LA MAX 4 Chamber		LVOT VEL. (m/s)	RVOT VEL. (m/s)	IVRT (m/)
NORMAL PARAMETER	<1.5	1.6	0.7-1.7		<1.6	<1.3	40-60
PATIENT	1.1	1.3	1.5		1.5	1.1	NM
Adapted from June Boon, Veterinary Echocardiography, 1998 Sisson D et al. JVIM 1991; 5: 232, Jacobs et al. Am J Vet Res 1985; 46:1705							

ULTRASONOGRAPHIC FINDINGS

Hypertrophic cardiomyopathy phenotype, potential systemic influence such as temporary myocardial thickening and hyperthyroidism are all potential factors.

Mild myocardial remodeling was noted.



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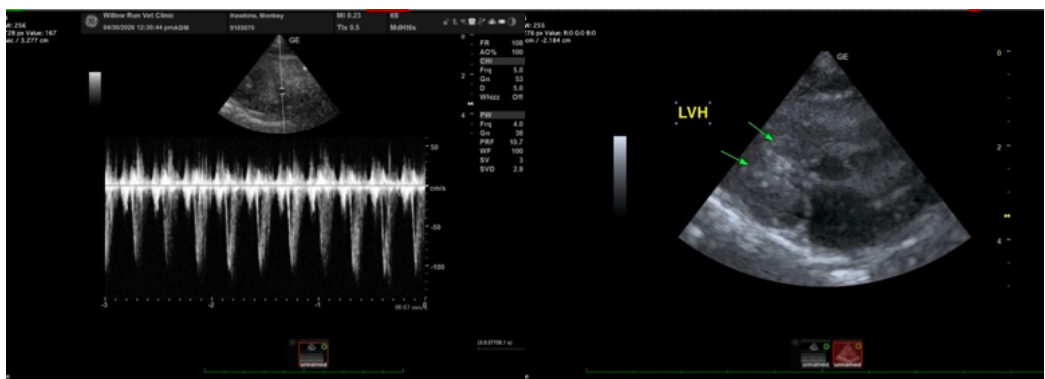
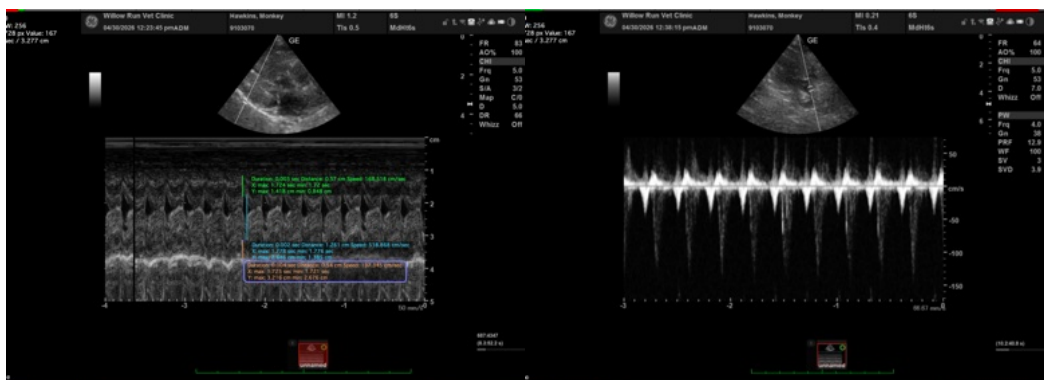
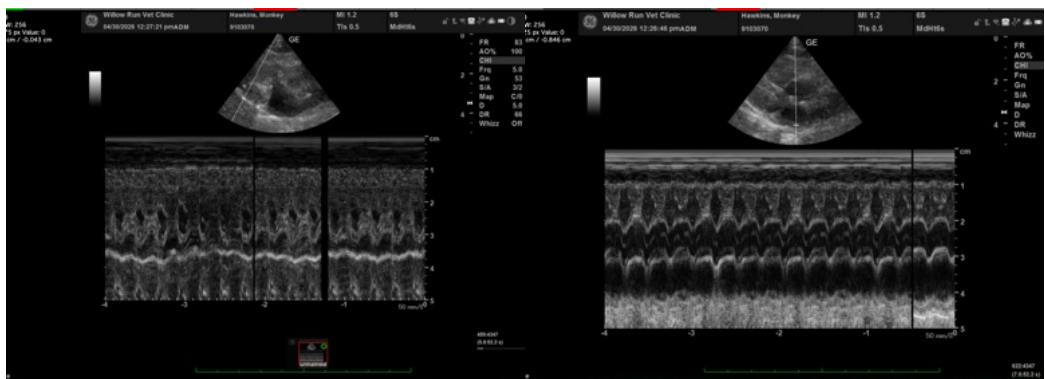
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INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

There is no overt contraindication to anesthetic procedure as long as normal volemia is achieved. The patient from a cardiac standpoint and appears to be hypovolemic. Blood pressure measurements are indicated as well as thyroid assessment. Blood pressure measurements are indicated as well as thyroid assessment. Torbutrol premed, Propofol induction and Isoflurane maintenance is recommended. recheck echocardiogram is recommended in 6 months. If the patient's heart rate is >200 in a persistent fashion, then Atenolol therapy could be justified.





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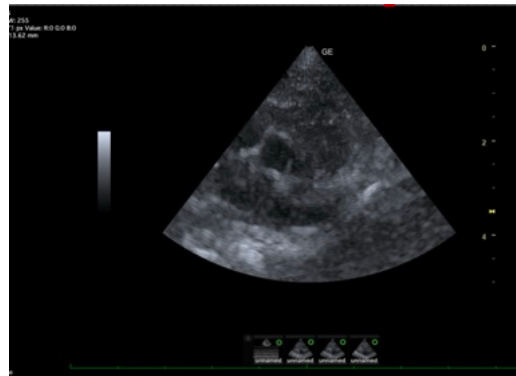
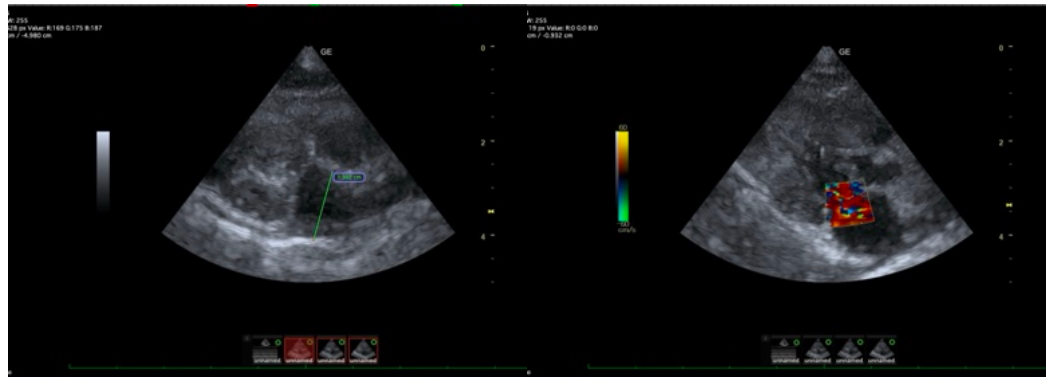
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.

Eric Lindquist, DMV, DABVP (CFM), Cert. IVUSS, CEO of SonoPath.com

info@SonoPath.com