



PATIENT

Max Rodriguez

SPECIES

Feline

BREED

Domestic Shorthair

SEX

Male

AGE

1 ½ years

WEIGHT

15 lbs

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Dr. Rodriguez

HOSPITAL NAME

Foxfield VS

REFERRING VET

Dr. Rodriguez

PRESENTING CLINICAL SIGNS

History: Heart murmur of 3-4/6 noted prior to neuter. Note the last few images sets as he became VERY bradycardic? He as given 50mg gabapentin and 0.1cc torb prior to the echo. BP WNL.

Abnormal PE/Chem/CBC/UA Results: WNL

ULTRASONOGRAPHIC EXAMINATION OF THE HEART

The echocardiogram in this patient demonstrated borderline enlarged **left atrium** with no evidence of “smoke” or thrombi. The cranial and caudal **mitral** valve leaflets appeared mildly thickened with some insufficiency noted on Doppler. Systolic anterior motion is noted. This is indicative of a dynamic obstruction. The **left ventricle** presented excessive free wall and septal thicknesses with hypertrophic thicknesses compared to normal for this species. The **myocardium** presented essentially normal echogenicity without immediate signs of fibrotic or ischemic disease. **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. **Tricuspid** insufficiency was noted. The **right ventricle** was of normal size with normal chordae structure, myocardial echogenicity and thickness. **Pulmonic** velocity was mildly excessive at 2.4 m/sec. 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.

FELINE CARDIAC PARAMETERS	BODY WEIGHT (kg)	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		NM	0.91	1.67	0.92	79	98
FELINE CARDIAC PARAMETERS	LA/AO (Boon)	LA/AO HEART BASE (Sisson)	LA 2D 4-chamber long axis AS to FW (Sisson) (cm)		LVOT VEL. (m/s)	RVOT VEL. (m/s)	IVRT (m)
NORMAL PARAMETER	<1.5	0.88-1.79	0.7-1.7		<1.6	<1.3	40-60
PATIENT	1.5	1.5	1.7			2.4	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							

INVOICE

32411

DATE

8/18/22



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ULTRASONOGRAPHIC FINDINGS

Hypertrophic cardiomyopathy phenotype with borderline left atrial size and dynamic obstruction. HCM is moderate to severe without left sided failure at this time.

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INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

I recommend Atenolol therapy in this patient at 6.25-12.5 mg s.i.d. to b.i.d. to reduce resting heart rate of less than 1.8 m/sec. Blood pressure measurements are warranted. Recheck echocardiogram is recommended in 2-3 weeks to assess response to therapy. There is some anesthetic risk in this patient. Long term prognosis is guarded.

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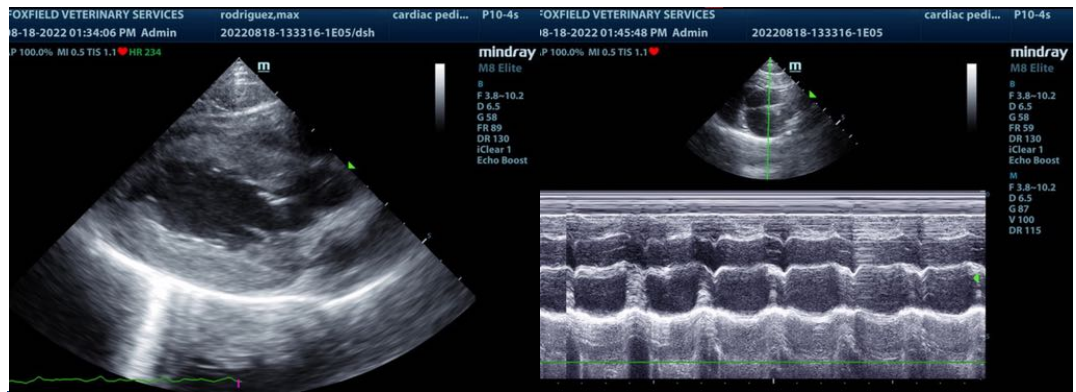
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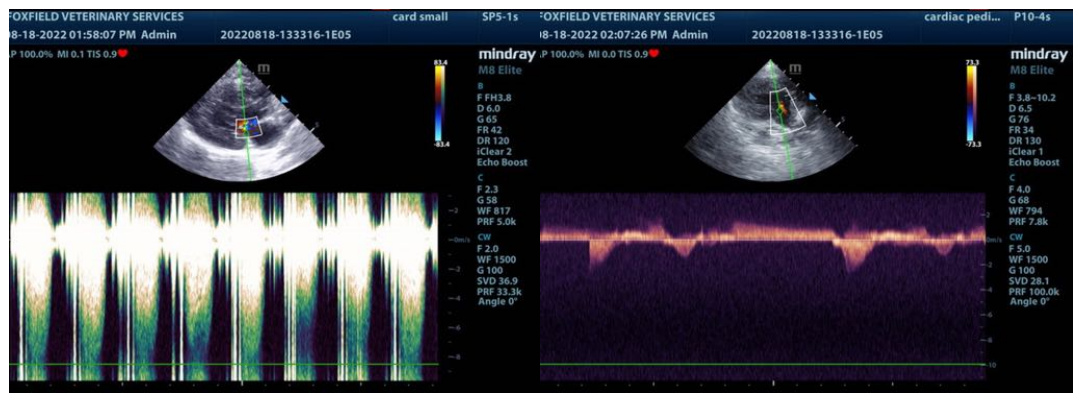
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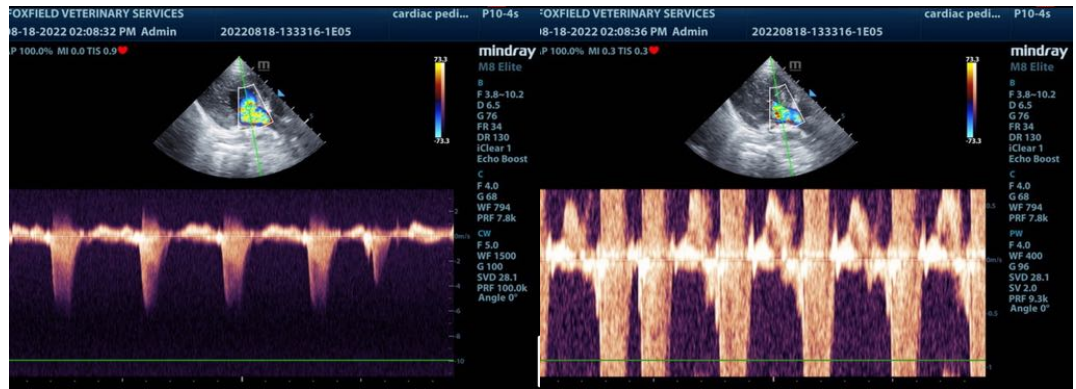
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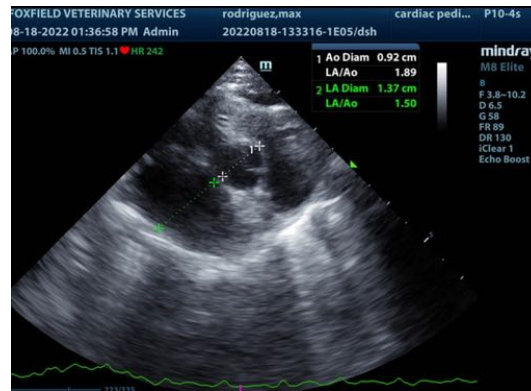
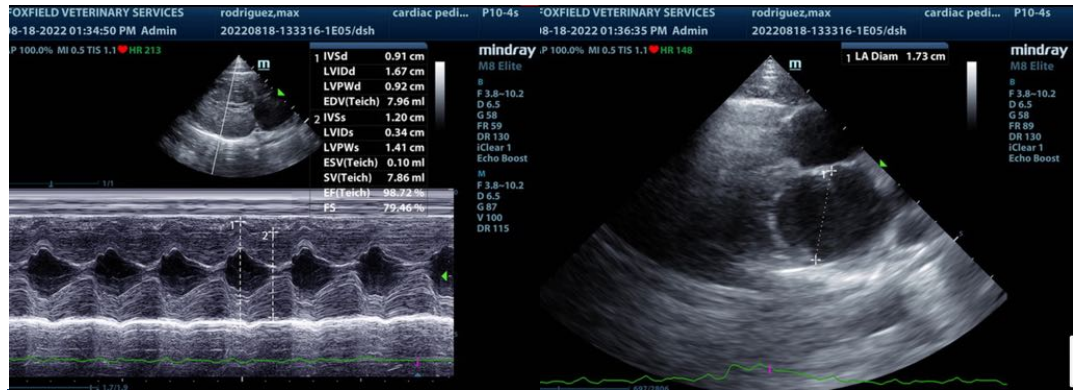
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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, Cert. IVUSS, CEO of SonoPath.com
info@SonoPath.com