



PATIENT PRESENTING CLINICAL SIGNS

Oscar Velasco

History: Heart murmur with possible arrhythmia. Cardiovet: Rate 260bpm, rhythm sinus tachycardia, P-QRS-T: neg, prolonged QRS complexes, R mean electrical axis deviation.

SPECIES

Abnormal PE/Chem/CBC/UA Results: N/A

Feline

ULTRASONOGRAPHIC EXAMINATION OF THE HEART

BREED

The **left atrium** was enlarged in this patient. The cranial and caudal **mitral** valve leaflets appeared mildly thickened with some insufficiency noted on Doppler. Mitral insufficiency measured 5.0 m/sec. 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** valvular assessment demonstrated linear morphology. 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. Tachycardia was present.

Domestic Longhair

SEX

Neutered male

AGE

10 years

WEIGHT

13 lbs

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Dr. Rodriguez

HOSPITAL NAME

Foxfield VS

REFERRING VET

Dr. Rodriguez

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	13 lbs	230	0.9	1.4	0.9	50	
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		2.01	2.2	2.0	0.6	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

94587

DATE

12/14/21



PATIENT

Oscar Velasco

ULTRASONOGRAPHIC FINDINGS

Hypertrophic cardiomyopathy with left atrial enlargement.

SPECIES

Feline

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

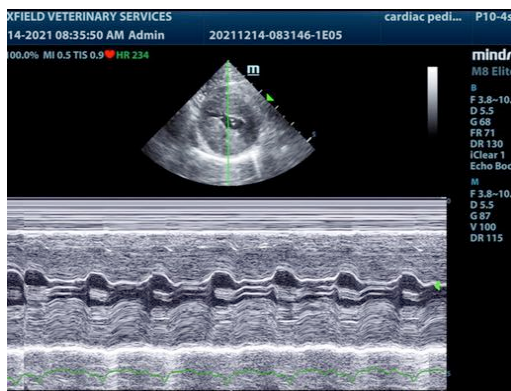
Blood pressure and thyroid assessment is warranted if not already performed. Atenolol therapy is recommended at 6.25-12.5 mg b.i.d. to reach a target heart rate of less than 180. Ace inhibitor therapy can be considered at 0.5 mg/kg s.i.d. Plavix therapy can be considered as a preventative. A recheck echocardiogram is recommended in a month or earlier if clinical signs initiate.

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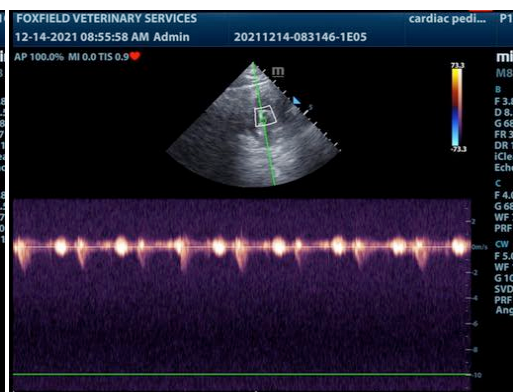
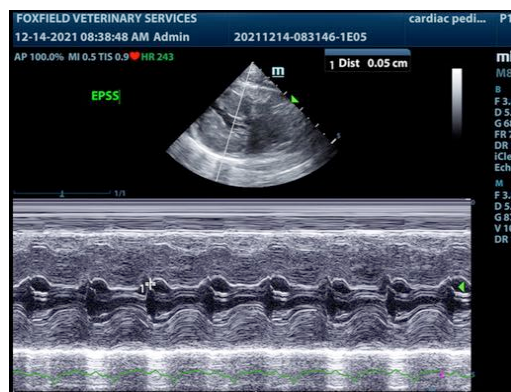


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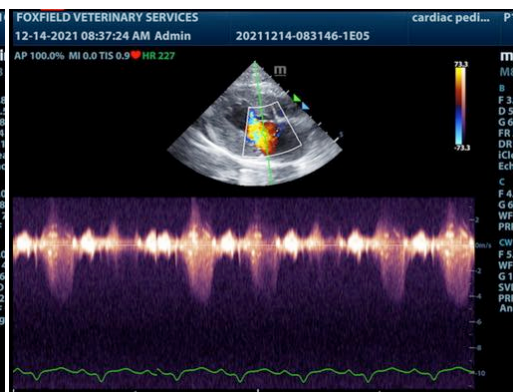
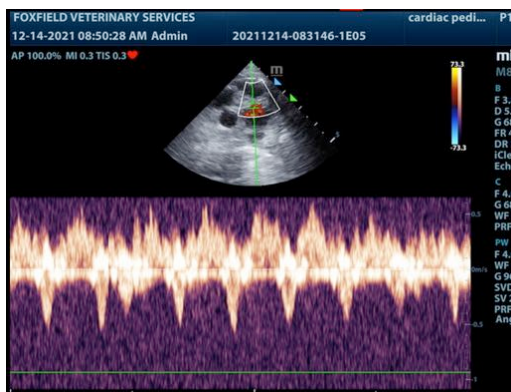
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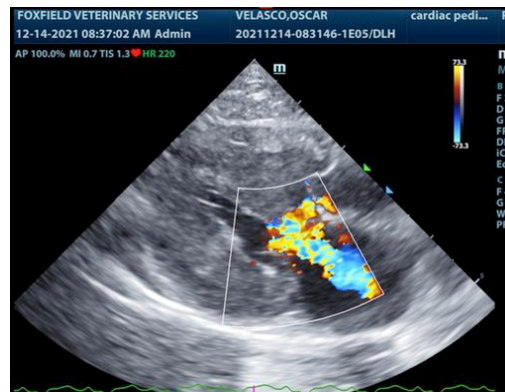
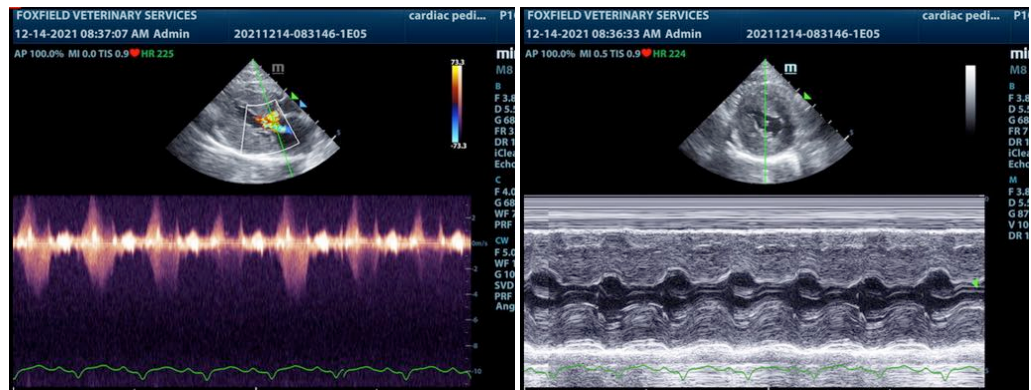
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The information and recommendations provided are based on the images presented by the referring veterinarian. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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