



**PATIENT**

Walker Marian

**PRESENTING CLINICAL SIGNS**

History: The RDVM heard systolic grade 3HM on the left hemithorax and in the parasternal region  
 Abnormal PE/Chem/CBC/UA Results: Abnormal feline proBNP test result

**SPECIES**

Feline

**BREED**

Persian Cross

**SEX**

Neutered male

**AGE**

7 years

**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. 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.

**WEIGHT**

4.68 kg

**INTERPRETED BY**

Eric Lindquist, DMV  
 DABVP, Cert. IVUSS

**IMAGING PERFORMED BY**

Dr. Inham UI Haq

**HOSPITAL NAME**

City Veterinary Clinic

**REFERRING VET**

Dr. Inham UI Haq

**INVOICE**

43047

**DATE**

3/1/23

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	4.68	NM	0.65	1.29	0.59	46	81
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		1.23	1.51	1.63	1.33	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



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**ULTRASONOGRAPHIC FINDINGS**

Mild hypertrophic cardiomyopathy phenotype, compensated at this time.

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**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

Blood pressure measurements and thyroid assessment is warranted if not already performed. No treatment is recommended at this time. Recheck echocardiogram is recommended in 6 months. There was no evidence of volume overload or significant dynamic obstruction. If the resting heart rate is > 200 or exercise intolerance becomes an issue then Atenolol therapy can be considered. However, given that outflow velocities are maintained relatively normal and structural pathology is uniform and considered minor without volume overload then no therapy is warranted at this time.

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Persian Cross

**SEX**

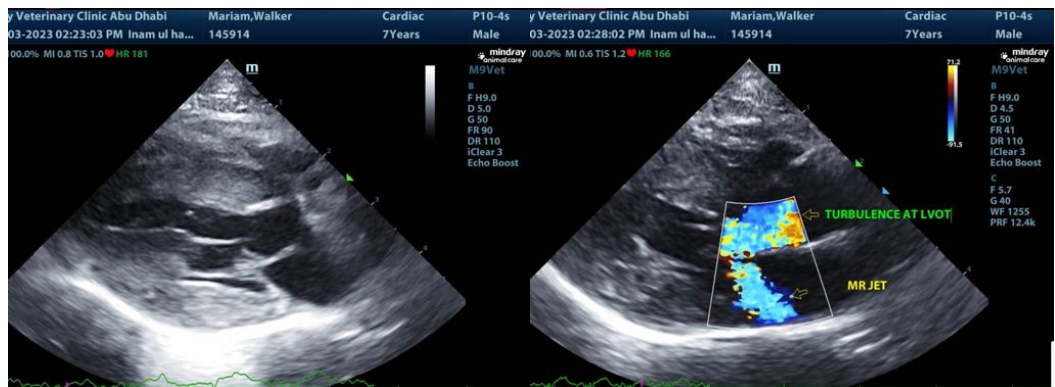
Neutered male

**AGE**

7 years

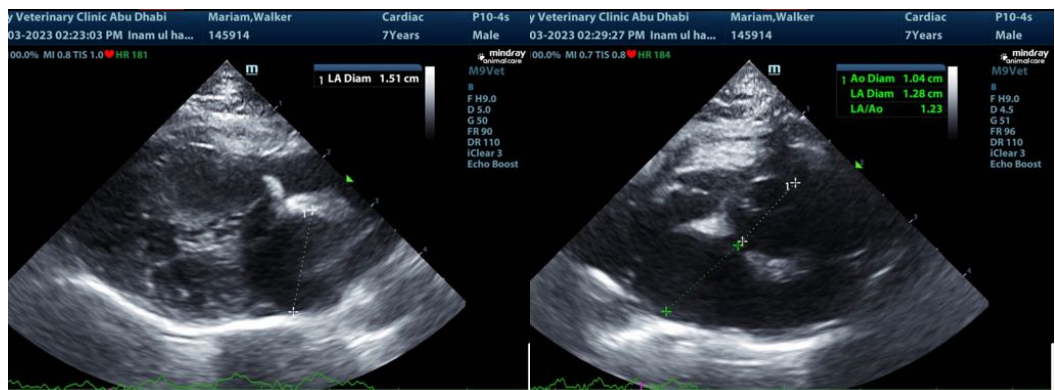
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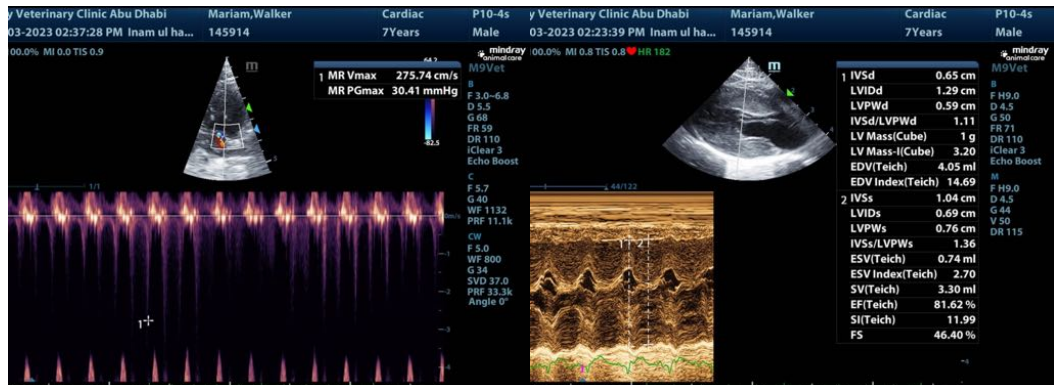
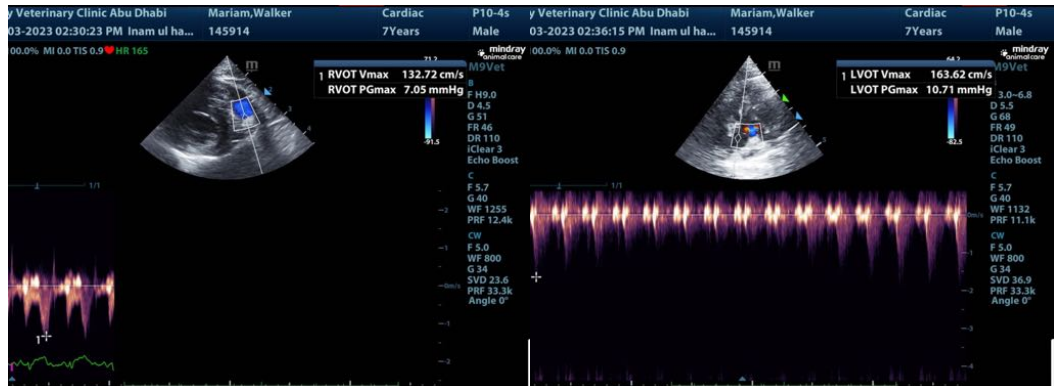
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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  
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