



**PATIENT**

Yuki Brown

**SPECIES**

Feline

**BREED**

Turkish Angora

**SEX**

Male Neutered

**AGE**

6.22.09

**WEIGHT**

11.4lbs

**INTERPRETED BY**

Maggie Machen Lamy,  
DVM, DACVIM  
(Cardiology)

**HOSPITAL NAME**

Everhart Veterinary  
Hospital

**REFERRING VET**

Dr. Notarangelo

**INVOICE**

25005

**DATE**

6.27.22

**PRESENTING CLINICAL SIGNS**

History: History of benign flow of murmur September 2014, telemedicine echo with Jean Betkowski. Murmur progressed from 1-2/6 systolic in last 6 months. Pre-operative echocardiogram advised for dental cleaning.

-Pertinent abnormal PE/Chem/CBC/UA Results: NSF 6/16/22.

-Current medications: Gabapentin 100mg PO.

-Blood pressure: 120mmHg.

-Sedation used: Not required to complete full diagnostic ultrasound.

-Pertinent previous ultrasound results: No previous.

-STAT: Declined.

-Imaging performed by: Stephanie Pearce RDCS, RVT.

**ECHOCARDIOGRAM FINDINGS**

2D, m-mode, color flow and doppler imaging is available. The left ventricular wall is normal in dimension, albeit highly irregular. There is a mildly hyperechoic endocardium consistent with mild fibrosis. The endocardium also appears mildly remodeled. The papillary muscles are normal in size and hyperechoic. The left atrium is normal in size. The right atrium is normal in size. The right ventricle appears normal. The mitral valve is normal in structure and mobility. No obvious valve regurgitation. Blood flow through the LVOT and RVOT are both elevated in velocity with a dynamic profile. No pleural or pericardial effusion seen. No obvious cardiac tumors.

**CARDIAC CHART**

FELINE CARDIAC PARAMETERS	BODY WEIGHT (kg)	HR (BPM)	IVSd (cm) <small>(Moise, Pipers)</small>	LVIDd (cm) <small>(Moise, Pipers)</small>	LWVd (cm) <small>(Moise, Pipers)</small>	FS (%)	EF (%)
NORMAL PARAMETER	-----	150-240	3.5-0.55	<2 (mean 1.5)	3.5-0.55	35-67	80-100
PATIENT	5.2	NM	0.52	1.6	0.52	67	95
FELINE CARDIAC PARAMETERS	LA/AO (Boon)	LA/AO HEART BASE (Swe) (Abbott)	LA 2D short axis Base view (cm) (Abbott)		LVOT VEL (m/s)	RVOT VEL (m/s)	E max (m/s)
NORMAL	<1.5	<1.3	<1.2		<1.6	<1.3	<0.9
PATIENT	NM	1.0	1.1		3.7	2.4	NM

Adapted from June Boon, Veterinary Echocardiography, 1998  
Abbott J & MacLean H JVIM 2006;20: 111-119, Moise et al. Am J Vet Res 47:1476, 1986. Pipers et al. Am J Vet Res 40:882, 1979.

## INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

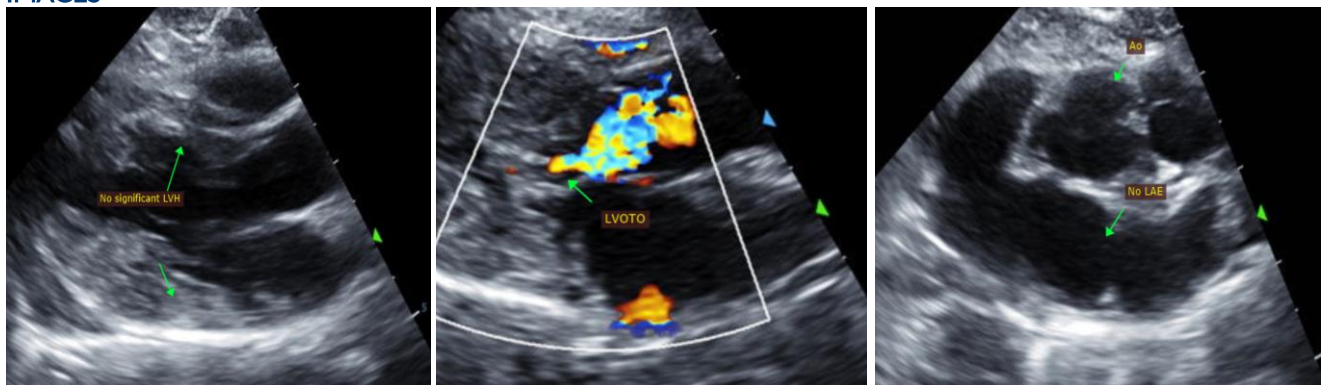
Overtly normal geriatric cardiac structure and function. The LV wall thickness is normal, and there is no evidence of elevated left atrial pressure. There is significant remodeling, fibrosis and irregularity of the left ventricular wall, which is likely a normal age-related finding. The cause of the murmur is mildly elevated flow through both great vessels (DRVOTO, LVOTO). Given these findings, no medications are indicated.

Presumably these findings are similar to the prior study as no hemodynamic significance is appreciated. Monitor for signs of progressive disease, such as respiratory changes, signs of a blood clot, lethargy or collapse.

Anesthetic risk is considered mild. With remodeling and diastolic stiffening, there is an elevated risk for fluid overload in this patient and judicious IV fluid use is recommended. Heart rate stimulating drugs such as atropine, glycopyrrolate or ketamine should be avoided unless medically necessary. Risk for complication with steroid use typically follows LA dilation, which in this case is low. That being said, any cat can experience unexpected signs of intolerance and monitoring of RR/RE is advised particularly in the initiation phase.

Recommend recheck echocardiogram in 1 year to assess for any progressive issues.

## IMAGES



**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. This report was generated using transcription software, and minor dictation errors may be present. If the clinical or image interpretation does not parallel your findings or if I can be of any further assistance, please contact me.

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