



**PATIENT**

Nolan Challa

**PRESENTING CLINICAL SIGNS**

History: History of a chronic heart murmur. No clinical symptoms  
 Abnormal PE/Chem/CBC/UA Results: ProBNP 208 pmol/l Creatinine 2.7mg/dl (0.9-2.3) BUN 43mg/dl

**SPECIES**

Feline

**ECHOCARDIOGRAM FINDINGS \* 1s loops impede measurement confidence.**

2D, m-mode, color flow and doppler imaging is available. The left ventricular wall is unable to be measured. There is a diffusely hyperechoic endocardium consistent with fibrosis. The endocardium also appears remodeled. The left atrium is normal in size. The right atrium is normal in size. Blood flow through the RVOT is normal in velocity. LVOT velocity is not assessed. No pleural or pericardial effusion seen. No obvious cardiac tumors.

**BREED**

DSH

**CARDIAC CHART**

**SEX**

Male Neutered

**AGE**

13 years

**WEIGHT**

10lbs

**INTERPRETED BY**

Maggie Machen Lamy,  
 DVM, DACVIM  
 (Cardiology)

FELINE CARDIAC PARAMETERS	BODY WEIGHT (kg)	HR (BPM)	IVSd (cm) (Moise, Pipers)	LVIDd (cm) (Moise, Pipers)	LWVd (cm) (Moise, Pipers)	FS (%)	EF (%)
NORMAL PARAMETER	-----	150-240	0.35-0.55	<2 (mean 1.5)	3.5-0.55	35-67	80-100
PATIENT	4.5		NM	NM	NM	>50	NM
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	1.3	1.3		NM	1.1	NM

*\*Note: All measurements based upon multi-modal images and methods. An average value is reported.  
 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.*

**IMAGING PERFORMED BY**

L. Mandeville, DVM

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

Unfortunately the study is non-diagnostic, without good visualization of the LV wall thickness. This is important to determine if hypertrophic disease may be present particularly given the chronic heart murmur. Additionally the origin of the murmur is not visualized, although an LVOT obstruction may be suspected on color flow imaging. What CAN be said however is that the LA is normal, indicating risk for complication is currently low. Recommend reassess a full study in order to further investigate murmur and LV measurements. A baseline BP is suggested with BNP elevation.

**REFERRING VET**

Dr. Mandeville

Given these findings, no medications are indicated.

**INVOICE**

28433

**DATE**

1/18/23

**IMAGES**





**PATIENT**

Nolan Challa

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.

**SPECIES**

Feline

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.

**BREED**

DSH

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**HOSPITAL NAME**

BetterVet

**REFERRING VET**

Dr. Mandeville

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