



## PATIENT

Elmo Patterson

## SPECIES

Feline

## BREED

DSH

## SEX

Male Neutered

## AGE

16 years

## WEIGHT

8.8lbs

## INTERPRETED BY

Maggie Machen  
Lamy, DVM, DACVIM  
(Cardiology)

## IMAGING PERFORMED BY

Melissa Weisman,  
DVM

## HOSPITAL NAME

Minnesota Veterinary  
Ultrasound

## REFERRING VET

Dr. Weisman

## INVOICE

20436

## DATE

8/9/21

## PRESENTING CLINICAL SIGNS

History: Recheck echo. Grade 3/6 L Systolic cardiac murmur. Mild dental tartar and gingivitis. No new abnormalities on exam or x-ray to explain his worsening rear limb issues.

-Abnormal lab results: NSF.

-Pertinent previous echo findings (4/2020 MML): No LVH, prominent papillary muscles.

## RADIOGRAPHIC FINDINGS \*NOTE: Images submitted for supplemental cardiac information only.

Normal cardiac silhouette. No obvious evidence of CHF.

## ECHOCARDIOGRAM FINDINGS

2D, m-mode, color flow and doppler imaging is available. The left ventricular wall appears normal in dimension with regions of irregularity. There is a diffusely hyperechoic endocardium consistent with fibrosis. The papillary muscles are prominent and hyperechoic with regions of remodeling. The endocardium also appears remodeled. 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. Blood flow through both the LVOT and RVOT is normal in velocity. No pleural or pericardial effusion seen. No obvious cardiac tumors.

## CARDIAC CHART

FELINE CARDIAC PARAMETERS	BODY WEIGHT (kg)	HR (BPM)	IVSd (cm) (Moise, Pipers)	LVIDd (cm) (Moise, Pipers)	LVWd (cm) (Moise, Pipers)	FS (%)	EF (%)
<b>NORMAL PARAMETER</b>	-----	150-240	0.35-0.55	<2 (mean 1.5)	3.5-0.55	35-67	80-100
<b>PATIENT</b>	4.0	NM	0.51	1.46	0.50	51	84
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)
<b>NORMAL</b>	<1.5	<1.3	<1.2		<1.6	<1.3	<0.9
<b>PATIENT</b>	NM	1.26	1.26		0.72	0.658	NM
<p><i>*Note: All measurements based upon multi-modal images and methods. An average value is reported.</i>            Adapted from June Boon, Veterinary Echocardiography, 1998            Abbott J &amp; 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.</p>							

## INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Overtly normal cardiac structure and function persists without evidence of progression. No LVH is noted, and the papillary muscles are unchanged. No structural issues are identified, and the LA is normal.

Given these findings, this is likely a normal variant in this animal. No cardiac medications are indicated.



**PATIENT**

Elmo Patterson

Anesthetic risk is considered mild, however judicious IV fluid rates are advised to avoid fluid overload. Additionally, drugs that stimulate heart rate should be avoided unless clinically necessary (glycopyrrolate, atropine).

**SPECIES**

Feline

Monitor for any development of clinical signs at home, including labored breathing, cough or signs of a blood clot (paralysis, neurologic change).

**BREED**

DSH

A recheck echocardiogram is recommended in 12 months to screen for development of disease the preexisting murmur may mask, sooner if clinical signs develop in the interim.

**SEX**

Male Neutered

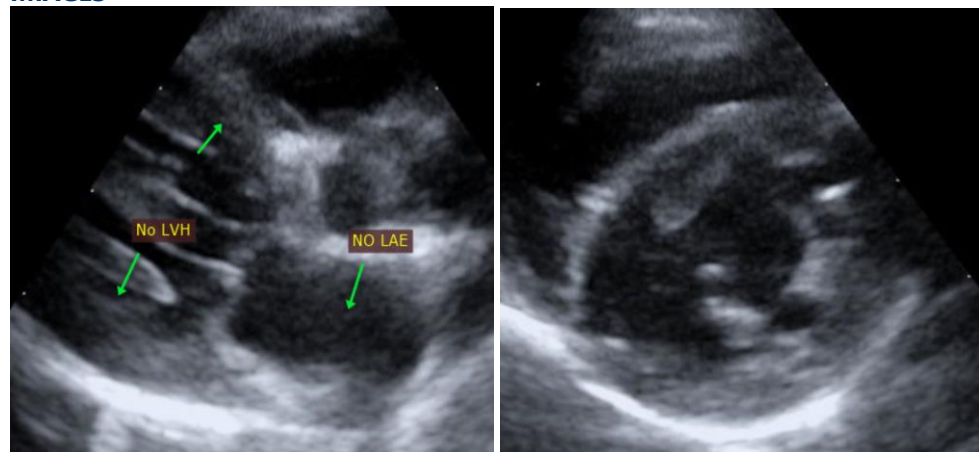
**AGE**

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**IMAGES**



**INTERPRETED BY**

Maggie Machen Lamy, DVM, DACVIM  
(Cardiology)

**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.**

**IMAGING PERFORMED BY**

Melissa Weisman, DVM

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.

**HOSPITAL NAME**

Minnesota Veterinary  
Ultrasound

**Maggie Machen Lamy, DVM**

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