
PATIENT

Bela Graves

PRESENTING CLINICAL SIGNS

History: Grade 4/6 heart murmur. Assess prior to anesthesia. On Gabapentin.

SPECIES

Feline

ECHOCARDIOGRAM FINDINGS

2D, m-mode, color flow and doppler imaging is available. The left ventricular wall is normal in dimension. There is a diffusely hyperechoic endocardium consistent with fibrosis. The papillary muscles are mildly remodeled and hyperechoic. The endocardium also appears remodeled. The left atrium is mildly enlarged. 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.

BREED

DLH

SEX

Male Neutered

CARDIAC CHART
AGE

21 years

WEIGHT

8.6lbs

INTERPRETED BY

 Maggie Machen Lamy,
 DVM DACVIM
 (Cardiology)

IMAGING
PERFORMED BY

Crystal Hill, RVT

HOSPITAL NAME

 St. Catherines Animal
 Hospital

REFERRING VET

Dr. Boctor

INVOICE

25777

DATE

8/15/22

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	3.9	193	0.40	1.6	0.42	65	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	1.5	1.4	0.6	0.9	NM	
<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 & 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 cardiac structure and function with normal LV wall measurements. There is significant remodeling and fibrosis of the left ventricular wall however, and this may be indicative of early cardiac disease or may simply represent a normal variant in this geriatric cat. What is most concerning is the LA measures mildly enlarged, which may be indicative of early restrictive or unclassified disease. Serial echocardiography will be necessary to determine progression and clinical relevance. No structural cause for the murmur is identified, making it most likely physiologic in origin.

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

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). Avoid vasodilators as this may worsen the obstruction. A reasonable protocol includes opioid/benzodiazepine premedication, propofol induction, isoflurane maintenance. Additionally, steroids should be used with caution on older cats, as even a 'normal' geriatric heart can develop evidence of intolerance and fluid retention.



PATIENT

Bela Graves

No cardiac medications are clearly indicated.

SPECIES

Feline

A recheck echocardiogram is recommended in 6-12 months to screen for progressive dilation and reassess murmur origin.

IMAGES

BREED

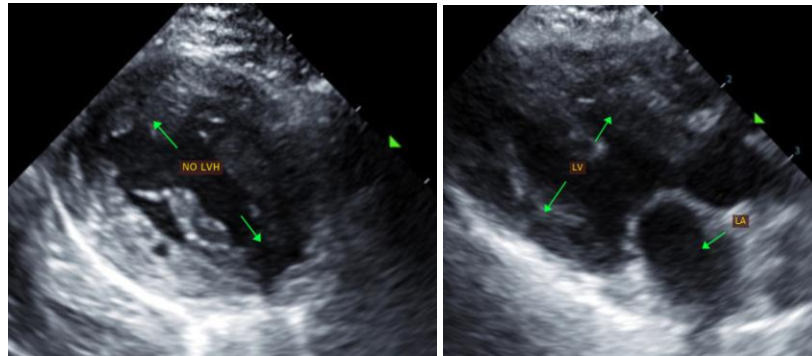
DLH

SEX

Male Neutered

AGE

21 years



WEIGHT

8.6lbs

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.

INTERPRETED BY

Maggie Machen Lamy,
DVM DACVIM
(Cardiology)

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.

Maggie Machen Lamy, DVM
Diplomate of the American College of Veterinary Internal Medicine (Cardiology)
info@sonopath.com

IMAGING PERFORMED BY

Crystal Hill, RVT

HOSPITAL NAME

St. Catherines Animal
Hospital

REFERRING VET

Dr. Boctor

INVOICE

25777

DATE

8/15/22