



PATIENT

Jonah Burns

PRESENTING CLINICAL SIGNS

History: Presented on 2/20/23 for recheck of pancreatitis. Grade 2/6 heart murmur was noted on exam. No clinical signs. VHS 9.14. BP over 200mmHg. Elevated ProBNP: 156.

SPECIES

Feline

BREED

DSH

SEX

Male Neutered

AGE

15.10 years

WEIGHT

13.3lbs

INTERPRETED BY

Maggie Machen Lamy,
DVM, DACVIM
(Cardiology)

ECHOCARDIOGRAM FINDINGS

2D, m-mode, color flow and doppler imaging is available. The left ventricular wall is remodeled with a focal septal thickening. The remainder of the LV wall measures normal. 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 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 MR, TR or AI. Trace PI. Blood flow through the RVOT and LVOT 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 (%)
NORMAL PARAMETER	-----	150-240	0.35-0.55	<2 (mean 1.5)	3.5-0.55	35-67	80-100
PATIENT	6.1	180	0.58	1.27	0.43	58	90
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	1.5	1.2	1.3		0.94	0.87	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

Kim Liedberg

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Focal LV hypertrophy is present in addition to LV remodeling, which may be indicative of early hypertrophic disease or may simply represent a normal variant. Regardless, the LA remains normal which would indicate clinical stability. Serial echocardiography will be necessary to determine progression and clinical significance. Additionally, no definitive cause is identified for the murmur in this study, making it likely benign and secondary to tachycardia/stress.

HOSPITAL NAME

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With a normal LA dimension, no medications are indicated.

REFERRING VET

Dr. Dominguez

The reported blood pressure is elevated and should be reassessed for persistence. This may be enough to explain focal LV hypertrophy and a small aortic leak if considered accurate. Ideally obtain serial measurements in a controlled, low stress environment and continue until 3 consecutive readings plateau within 5mmHg of variability. If persistently >180mmHg despite a relatively calm demeanor, recommend institution of amlodipine to effect. Additionally if deemed accurate, screening for predisposing underlying causes of SHT is recommended (Cushing's, PLN, adrenal tumor, etc.), as primary disease is relatively uncommon and a rule out diagnosis.

INVOICE

29587

DATE

3/14/23

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Anesthetic risk is mild, however any cat with this degree of fibrosis and diastolic dysfunction will be at risk for iatrogenic IV fluid overload should they be needed in the future.

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

BREED

DSH

PLAN

Reassess BP as discussed and treat if indicated.

A recheck echocardiogram is recommended in 6-12 months to screen for any evidence of progression.

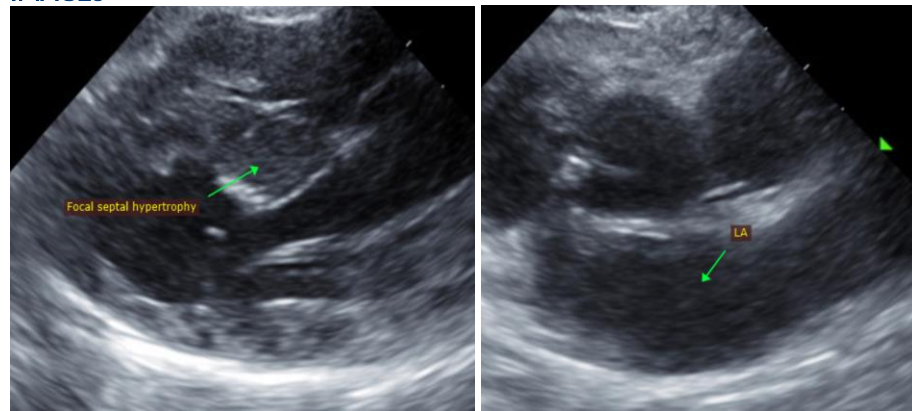
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The information and recommendations provided are based on the images presented by the referring veterinarian. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

Thank you for this referral. If the clinical or image interpretation does not parallel your findings or if I can be of any further assistance, please contact me.

IMAGING PERFORMED BY

Kim Liedberg

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

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Dr. Dominguez

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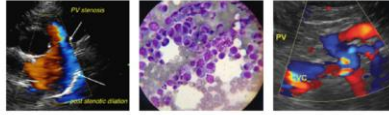
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