



PATIENT

Neil Herzing

SPECIES

Feline

BREED

DSH

SEX

Male Neutered

AGE

3.17.11

WEIGHT

8.8lbs

PRESENTING CLINICAL SIGNS

History: Grade II/VI L systolic murmur, previously diagnosed. Hyperthyroid. Fractured L maxillary 1st premolar and recent weight loss. Otherwise, e/d/d/u well. -Pertinent abnormal PE/Chem/CBC/UA Results: free T4 3.3ng/dL (0.7-2.6), 42.5 pmol/L (9-33.5), remainder of CBC/CHEM NSF -Current medications: methimazole transdermal gel (5mg/0.05ml) - 1.5 rotations (0.0375 ml) to inside flap of ear SID, Presented for annual exam on 1/20/23. cobalamin for cats - 1 PO SID -Blood pressure: 154/108 and 153/129mmHg. -Sedation used: Not required to complete full diagnostic ultrasound. -Pertinent previous ultrasound results: No previous. -STAT: Not requested -Imaging performed by: Stephanie Warga RDCS, RVT.

ECHOCARDIOGRAM FINDINGS

2D, m-mode, color flow and doppler imaging is available. The left ventricular wall is irregular with focal septal thickening. There is a mildly hyperechoic endocardium consistent with fibrosis. The papillary muscles are mildly 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 with no MR. No TR. Blood flow through the RVOT is normal. The blood flow through the LVOT is normal on doppler; however, color flow and 2D imaging suggest an intermittent LVOTO. No AI. No pleural or pericardial effusion seen. No obvious cardiac tumors.

CARDIAC CHART

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	3.5-0.55	<2 (mean 1.5)	3.5-0.55	35-67	80-100
PATIENT	4.0	NM	0.45	1.6	0.43	64	94
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	1.2	1.2			0.9	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.

HOSPITAL NAME

Chadwell Animal Hospital

REFERRING VET

Dr. Mengers

INVOICE

29074

DATE

2.17.23

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

The primary abnormality identified is focal septal hypertrophy in addition to LV remodeling, which may be indicative of early hypertrophic disease or may simply represent a normal variant. The LA is normal which would indicate clinical stability. Serial echocardiography will be necessary to determine progression and clinical significance. Additionally, the murmur is suspected to be due to a mild LVOT obstruction, which appears intermittent and does not warrant therapy. No additional issues are identified. A baseline BP and T4 are strongly recommended.

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.

Monitor for any development of clinical signs, including labored breathing or signs of a blood clot (paralysis, neurologic change). Prognosis is guarded prior to assessing for progression.

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

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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