



PATIENT

Yang Walker

SPECIES

Feline

BREED

DSH

SEX

Female Intact

AGE

13 months

WEIGHT

6.8lbs

INTERPRETED BY

Maggie Machen Lamy,
DVM DACVIM
(Cardiology)

IMAGING PERFORMED BY

Crystal Hill, RVT

HOSPITAL NAME

Oxford County Vet
Clinic

REFERRING VET

Dr. Halfon

INVOICE

21677

DATE

10/22/21

PRESENTING CLINICAL SIGNS

History: Recheck echo.
-Current medications: Atenolol 6.25mg SID.
-Pertinent previous echo findings (4/2021 MML): Mild LVH, mild MR, normal LA. LVOT: 2.2, IVSd: 0.65m, LVWd: 0.64.

ECHOCARDIOGRAM FINDINGS

2D, m-mode, color flow and doppler imaging is available. The left ventricular wall is moderately hypertrophied with a small internal dimension. There is a diffusely hyperechoic endocardium consistent with fibrosis and ventricular remodeling. False tendon. Mild asymmetric papillary muscle hypertrophy. The right ventricle is subjectively normal in size and morphology. There is no left atrial enlargement present. No right atrial enlargement present. Abnormal anterior motion of the mitral valve is present, causing an elevated LVOTO velocity and dynamic profile. The anterior leaflet of the MV is elongated and thickened, consistent with dysplasia. There is mild mitral regurgitation present. No other obvious valvular regurgitation is present. A mildly elevated RVOT velocity is noted. There is no pericardial effusion noted. No pleural effusion appreciated.

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	3.08	130	0.7	1.0	0.7	50	92
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	1.3	1.0		1.5	2.0	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.

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Unfortunately left-sided disease persists with evidence of mild progression. While the LVOTO is similar to slightly improved, the degree of LV hypertrophy has increased comparatively. This likely suggest a primary myocardial issue rather than purely a valve dysplasia. There is some concern that the max velocity is underrepresented in this study and referral should be considered given progressive disease seen here. No additional issues are identified.

Continue Atenolol as prescribed. No additional medications are indicated prior to atrial enlargement.



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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.

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PLAN

Continue Atenolol as prescribed. Consider referral as discussed.

SEX

Female Intact

Recommend recheck echocardiogram in 6 months to assess for progression and response to therapy, sooner if clinical issues arise.

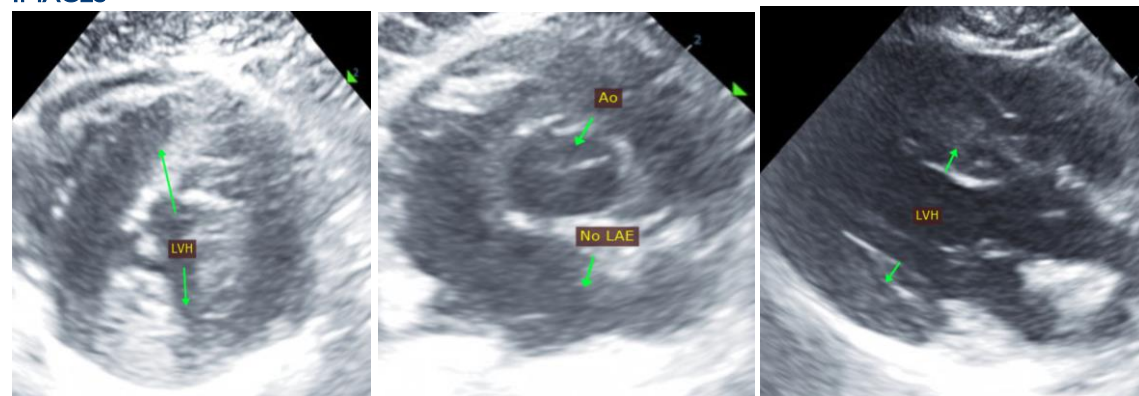
IMAGES

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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.

IMAGING PERFORMED BY

Crystal Hill, RVT

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

Oxford County Vet
Clinic

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