

PATIENT
Beetle D'Olier Lees

SPECIES
Feline

BREED
DSH

SEX
Male Neutered

AGE
18 months

WEIGHT
12.6lbs

INTERPRETED BY
Maggie Machen
Lamy, DVM, DACVIM
(Cardiology)

PRESENTING CLINICAL SIGNS

History: Suspect heart disease.
 -Current Medications: Clavamox Suspension 45.7mg/mL, Prednisolone 15mg/5mL.

RADIOGRAPHIC FINDINGS *NOTE: Images submitted for supplemental cardiac information only.
 Mild cardiomegaly. No obvious evidence of CHF.

ELECTROCARDIOGRAPHIC FINDINGS *Note: Single lead ECGs are evaluated as a rhythm strip.
 Morphology/MEA cannot be definitively commented on.
 A single lead ECG is available; 50mm/s, 20mm/mV. The average heart rate is 175bpm with a regular rhythm. The rhythm is sinus in origin, with a p for every QRS complex and vice versa. The P and QRS morphologies are positive. No ectopic beats, pauses or dysrhythmias observed.
 ECG diagnosis: Normal sinus rhythm.

ECHOCARDIOGRAM FINDINGS

2D, m-mode, color flow and doppler imaging is available. The left ventricular wall is mildly hypertrophied. There is a diffusely hyperechoic endocardium consistent with fibrosis. Mild papillary muscle hypertrophy. The right ventricle is normal. There is mild left atrial enlargement present. No right atrial enlargement present. Normal RVOT velocity. Abnormal anterior motion of the mitral valve is present although difficult to visualize on 2D imaging. Mildly elevated LVOT velocity is seen on color-flow and Spectral doppler with a dynamic profile. The anterior leaflet of the MV is mildly elongated and thickened, consistent with dysplasia. There is mild eccentric mitral regurgitation present. Trace TR. No other obvious valvular regurgitation is present. No obvious intra or extracardiac shunts seen. There is no pericardial effusion noted. No pleural effusion appreciated.

CARDIAC CHART

FELINE CARDIAC PARAMETERS	BODY WEIGHT (kg)	HR (BPM)	IVSd (cm) <small>(Moise, Pipers)</small>	LVIDd (cm) <small>(Moise, Pipers)</small>	LWVd (cm) <small>(Moise, Pipers)</small>	FS (%)	EF (%)
NORMAL PARAMETER	-----	150-240	0.35-0.55	<2 (mean 1.5)	3.5-0.55	35-67	80-100
PATIENT	5.7	NM	0.67	1.3	0.66	54	92
FELINE CARDIAC PARAMETERS	LA/AO <small>(Boon)</small>	LA/AO HEART BASE (Swe) <small>(Abbott)</small>	LA 2D short axis Base view (cm) <small>(Abbott)</small>		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	1.4	1.36		1.8	0.8	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 & 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>							

IMAGING PERFORMED BY
Jenna Walsh, CVT

HOSPITAL NAME
Echo Hollow
Veterinary Hospital &
Urgent Care

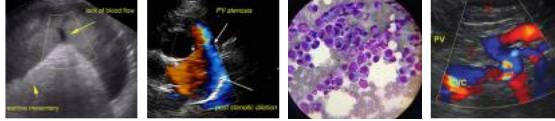
REFERRING VET
Dr. Kenna

INVOICE
22181

DATE
11/27/21

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

The diagnosis and cause of the murmur is mitral valve dysplasia leading to mild LV hypertrophy, mild MR and an obstructive LVOT flow pattern. A primary HOCM component cannot be ruled out as a concurrent issue particularly given only mild MV abnormality. There is only mild left



PATIENT

Beetle D'Olier Lees

atrial dilation however, indicating the risk of spontaneous CHF and/or a thrombotic event is currently low. The ECG is unremarkable with a normal sinus rhythm.

SPECIES

Feline

While no medications have been shown to definitively alter long term outcome at this stage of disease, atenolol is often initiated to decrease the outflow obstruction. In cases of solely primary MV dysplasia this can lead to improvement in the degree of obstruction and hypertrophy. Given the young age of the cat and today's findings it is reasonable to initiate at this time as below.

BREED

DSH

Monitor at home for any respiratory signs or evidence of blood clot events (neurologic change, paralysis, etc.).

SEX

Male Neutered

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).

AGE

18 months

Long term prognosis is guarded given the age of the patient and highly variable nature of asymptomatic feline heart disease. Many cats will remain asymptomatic until mid-life or beyond, while others develop CHF within the first years. Close monitoring for progression to LA dilation in the future will help determine long term prognosis.

WEIGHT

12.6lbs

PLAN

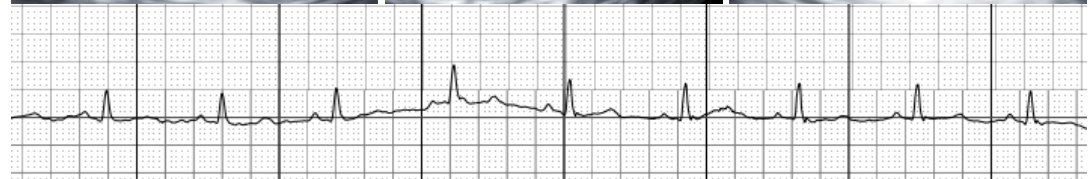
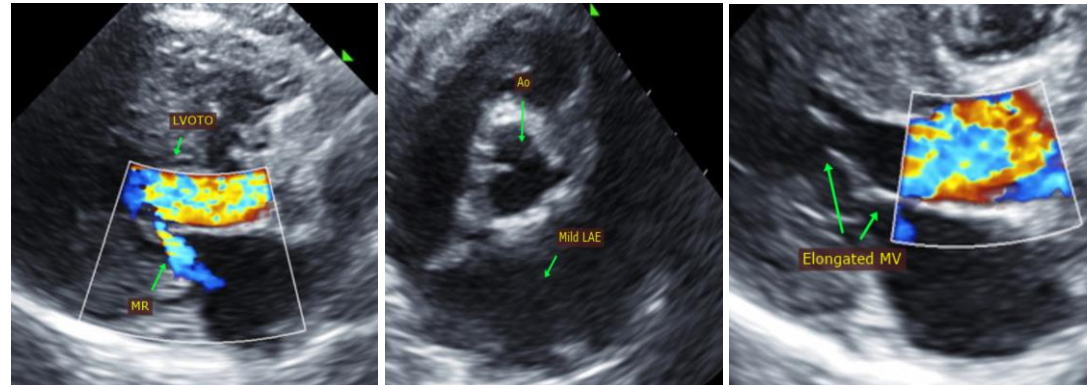
Administer titrating dose of atenolol: 25mg tablets; Give ¼ tab once daily. Recheck heart rate in 1-2 weeks with target stressed rate of 140-160bpm 12-24 hours post-administration. Increase as needed until target reached. Screening blood pressure is recommended if possible.

INTERPRETED BY

Maggie Machen
Lamy, DVM, DACVIM
(Cardiology)

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

IMAGES



IMAGING PERFORMED BY

Jenna Walsh, CVT

HOSPITAL NAME

Echo Hollow
Veterinary Hospital &
Urgent Care

REFERRING VET

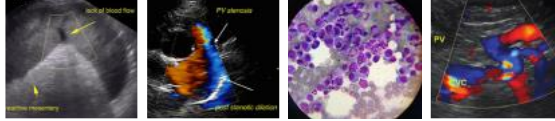
Dr. Kenna

INVOICE

22181

DATE

11/27/21



PATIENT

Beetle D'Olier Lees

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.

SPECIES

Feline

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.

BREED

DSH

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

SEX

Male Neutered

AGE

18 months

WEIGHT

12.6lbs

INTERPRETED BY

Maggie Machen
Lamy, DVM, DACVIM
(Cardiology)

**IMAGING
PERFORMED BY**

Jenna Walsh, CVT

HOSPITAL NAME

Echo Hollow
Veterinary Hospital &
Urgent Care

REFERRING VET

Dr. Kenna

INVOICE

22181

DATE

11/27/21