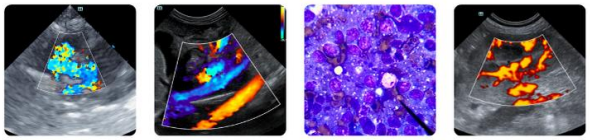

PATIENT

Toby Gonzalez

SPECIES

Feline

BREED

DLH

SEX

Male Neutered

AGE

13 years

WEIGHT

12.1lbs

INTERPRETED BY

Maggie Machen Lamy, DVM, DACVIM (Cardiology)

IMAGING PERFORMED BY

Kuzimski, DVM

HOSPITAL NAME

Animal Emergency Hospital Deland

REFERRING VET

Dr. Kuzimski

INVOICE

46101

DATE

12/9/25

PRESENTING CLINICAL SIGNS

History: Transferred for congestive heart failure and overnight care. P was diagnosed today with rDVM who gave flow by oxygen and two injections of Lasix while he was with them, the last injection was given prior to transfer. No murmur. Increased rate and effort; trachea clear Administered Torb 10mg/mL at 0.1mg/kg IV (0.05mL). BP: 146mmHg.

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; 25mm/s, 20mm/mV. The average heart rate is 200bpm. 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 other dysrhythmias observed.
ECG diagnosis: Normal sinus tachycardia.

ECHOCARDIOGRAM FINDINGS

2D, m-mode, color flow and doppler imaging is available. No significant left ventricular dilation with depressed systolic function. The LV wall thickness is normal overall. Severe left atrial and auricular enlargement with subtle smoke seen. No obvious organized thrombus. The mitral valve appears normal in form and function, with no obvious prolapse into the left atrial lumen. Trace central mitral regurgitation. No right atrial dilation. The aortic valve is normal in morphology and mobility. Decreased RVOT velocity. No pericardial or pleural effusion noted. 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	5.5		0.52	1.6	0.53	19	25
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	2.1	1.9		NM	0.6	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, this patient has end-stage cardiomyopathy and systolic dysfunction. This is causing dilation and overload of the left heart and has resulted in congestive heart failure. No additional issues are identified, and the ECG is normal with sinus tachycardia.

In cats, systolic failure can be primary in nature (DCM); however, this is relatively uncommon. An advanced form of restrictive cardiomyopathy (RCM) with development of systolic dysfunction is also possible. Finally, systolic failure can develop secondary to taurine deficiency, myocarditis, or infiltrative disease such as lymphoma. Taurine deficiency is highly uncommon in cats on

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commercially prepared cat foods; however, can consider taurine supplementation in case of an absorption issue.

Continue lifelong cardiac support is recommended as below with hospitalization until stable. Prognosis is poor to grave at this stage in the disease process, with an average survival time of <6 months. Most cats are able to maintain a good QOL for some time however on oral medication. High risk for recurrent CHF, development of blood clot events and/or malignant arrhythmias/sudden death at home should be discussed.

Monitor for development of labored breathing, limb paralysis/neurologic changes and/or collapse episodes in the future. Periodic Thoracocentesis will be necessary going forward. Monitoring of sleeping breathing rates at home is recommended to assess response to medications and recurrence of CHF in the future.

PLAN

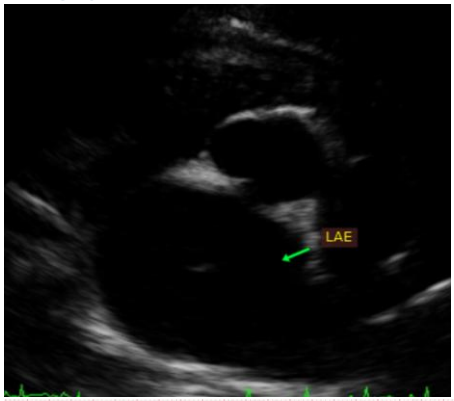
Consider hospitalization as needed for stabilization. Discharge on the following administer Lasix 1-2mg/kg PO q12h. Institute anti-coagulant Plavix/Clopidogrel 75mg tabs; Give ¼ tab by mouth every 24 hours (NOTE: bitter along cut edge, may cause foaming at the mouth; coat in entirety). Institute heart muscle support Pimobendan 1.25mg by mouth every 12 hours (off label use). Consider supplement taurine 500mg daily.

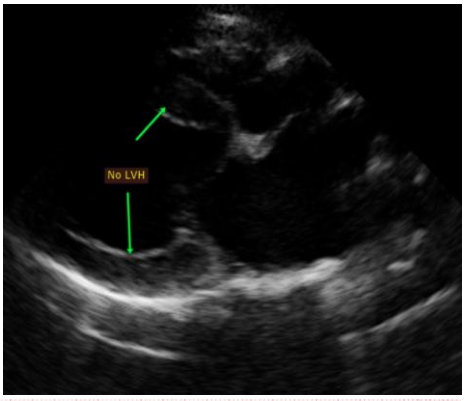
Recheck renal panel and BP in 1-2 weeks then every 3-4 months lifelong. Do not utilize an ACEI in this patient. If patient continues to have respiratory changes at home, addition of spironolactone is recommended 1-2mg/kg PO q12h.

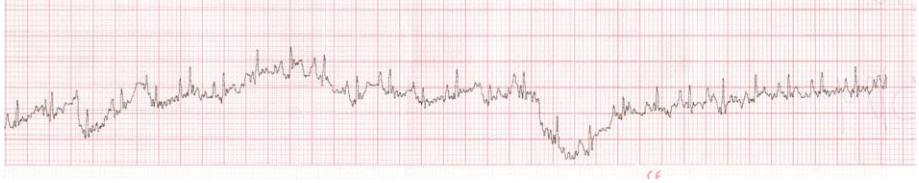
*NOTE: Many cats are difficult to medicate, and multiple medications can be overwhelming. If there is difficulty at home, Lasix and Plavix are considered most important. Consider compounding if needed.

Recheck echocardiogram in 6 months to reassess cardiac function.

IMAGES







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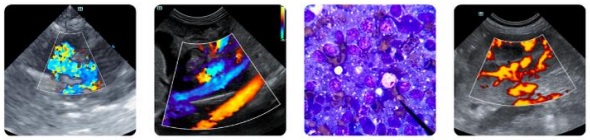

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The information and recommendations provided are based on the images presented by the referring veterinarian. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

Thank you for this referral. 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