


PATIENT

Lamp Heyman

SPECIES

Feline

BREED

DLH

SEX

MN

AGE

12 years

WEIGHT

6.0 lbs.

INTERPRETED BY

 R. McKenzie Daniel,
 DVM, DABVP
 (Canine and Feline)

IMAGING PERFORMED BY

Kim Liedberg

HOSPITAL NAME

SVS Imaging WI

REFERRING VET

 Dr. Preiser, Preiser
 AH

INVOICE

12989

DATE

1/6/22

PRESENTING CLINICAL SIGNS

Presented to ER for lethargy, not eating and breathing issues on 1/1/2022. DX with pleural effusion and 1200 to 1500 mls drained. Hx of gallop heart rhythms, Currently on Furosemide and Benazepril. Clinically he is breathing better. No ECG has been done.

ULTRASONOGRAPHIC EXAMINATION OF THE HEART

FELINE CARDIAC PARAMETERS	BODY WEIGHT (kg)	HR (BPM)	IVSd (cm)	LVIDd (cm)	LVWd (cm)	FS (%)	EF (%)
NORMAL PARAMETER	-----	150-240	0.3-0.6	1.0-2.1	0.25-0.6	35-67	80-100
PATIENT		266	0.58	1.1	0.57	48.2	83.1
FELINE CARDIAC PARAMETERS	LA/AO (Boon)	LA/AO HEART BASE (Sisson)	LA 2D 4-chamber long axis AS to FW (Sisson) (cm)	LVOT VEL. (m/s)	RVOT VEL. (m/s)	IVRT (m/)	
NORMAL PARAMETER	<1.5	0.88-1.79	0.7-1.7	<1.6	<1.3	40-60	
PATIENT	2.1	2.1	1.93	1.0	0.8	NM	
Adapted from June Boon, Veterinary Echocardiography, 1998 Sisson D et al. JVIM 1991; 5: 232, Jacobs et al. Am J Vet Res 1985; 46:1705							

Cardiac Presentation

The left ventricular wall exhibited remodeling with areas of asymmetry, subjective increased myocardial echogenicity, and borderline increased IVS and LV free wall thickness. Concurrent papillary muscle hypertrophy and remodeling was present. LV systolic function was adequate. The left atrium exhibited moderate dilation and bulbous appearance with evidence of mild spontaneous contrast / smoke. The right atrium exhibited concurrent moderate dilation without evidence of spontaneous contrast. The mitral valve revealed subjective mild thickening with minor central insufficiency noted. No overt evidence of TV insufficiency. Blood flow through the LVOT and RVOT was subjectively normal in velocity. Scant pericardial effusion was present. Overt evidence of concurrent pleural effusion was not noted, yet given the patient's history, cannot be definitively excluded. No overt cardiac tumors were present. Tachycardia was present.

ULTRASONOGRAPHIC FINDINGS
Primary Findings

- Unclassified cardiomyopathy, potential for advanced to end-stage hypertrophic cardiomyopathy
- Evidence of spontaneous contrast / smoke in dilated LA
- MR



PATIENT

Lamp Heyman

- Mild pericardial effusion
- Tachycardia

SPECIES

Feline

BREED

DLH

SEX

MN

AGE

12 years

WEIGHT

6.0 lbs.

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

The finding of biatrial enlargement in the face of borderline LV free wall and IVS increased thicknesses is suggestive of unclassified cardiomyopathy. However, progressive to end-stage HCM can also have this appearance. Potential LV remodeling and fibrosis, which may indicate some degree of diastolic dysfunction, were present. Evidence of early thrombus formation in the dilated left atrium indicates an exceedingly high risk for aortic thromboembolism going forward, which may carry a poor to grave prognosis. Regardless of classification, the degree of atrial dilation in addition to tachycardia indicates the diagnosis of congestive heart failure as a cause of the pleural and pericardial effusion.

Consider hospitalization with injectable Lasix until the patient is stabilized. Medical therapy with Lasix 1.0-2.0 mg/kg PO BID, Clopidogrel 75.0 mg (1/4 tab) PO SID and off label Pimobendan 1.25 md PO BID is recommended. Serial monitoring of renal values, blood pressure, and ideally ECG, given the tachycardia, are advised. A very guarded to potential poor long-term prognosis pending response to medical therapy. Recheck echocardiogram may be considered in 6 months, sooner if continued clinical signs of CHF are noted.

INTERPRETED BY

R. McKenzie Daniel,
DVM, DABVP
(Canine and Feline)

IMAGING PERFORMED BY

Kim Liedberg

HOSPITAL NAME

SVS Imaging WI

REFERRING VET

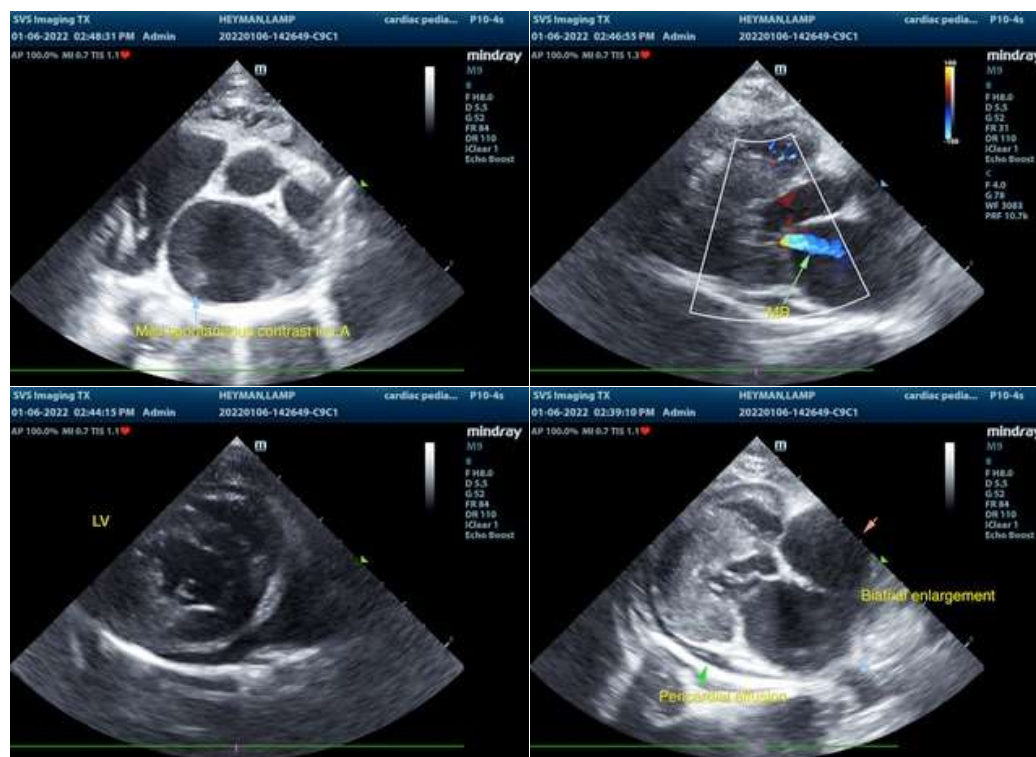
Dr. Preiser, Preiser
AH

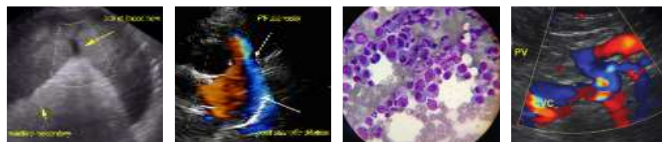
INVOICE

12989

DATE

1/6/22





PATIENT

Lamp Heyman

SPECIES

Feline

BREED

DLH

SEX

MN

AGE

12 years

WEIGHT

6.0 lbs.

INTERPRETED BY

R. McKenzie Daniel,
DVM, DABVP
(Canine and Feline)

IMAGING PERFORMED BY

Kim Liedberg

HOSPITAL NAME

SVS Imaging WI

REFERRING VET

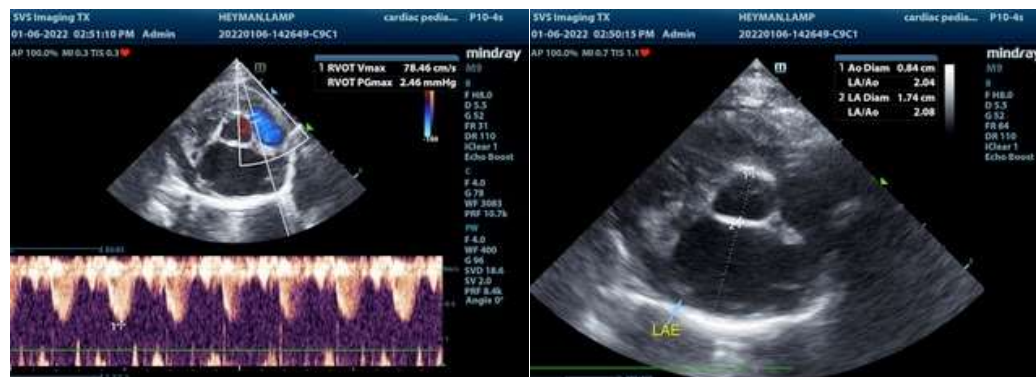
Dr. Preiser, Preiser
AH

INVOICE

12989

DATE

1/6/22



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.

R. McKenzie Daniel, DVM, DABVP (Canine / Feline Practice)
info@SonoPath.com