



PATIENT

Felix Hine

SPECIES

Feline

BREED

Domestic Shorthair

SEX

Neutered male

AGE

9 years

WEIGHT

13.5 lbs

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Dr. Ebersole

HOSPITAL NAME

Scanvet

REFERRING VET

Dr. Bennett

INVOICE

42754

DATE

11/29/22

PRESENTING CLINICAL SIGNS

History: Diagnosed with asthma at AECM last week presented for dyspnea and treated with prednisone; no heart murmur noted that day. Elevated pro BNP in 2020 with a Grade III/VI heart murmur, but no audible murmur today. Sedated with Gabapentin for echo.
 Abnormal PE/Chem/CBC/UA Results: PE: no audible murmur today. RADS (11/19/22 at E clinic): difficult to see cardiac silhouette, perihilar edema possible. Also has bronchial pattern in rest of lung fields. Elevated proBNP in 2020 (murmur at that time).

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

The echocardiogram in this patient demonstrated volume overload of the **left atrial**. The **mitral** valve leaflets revealed insufficiency. Septal and free wall thicknesses were normal. The contractility was slightly subnormal. The left ventricular internal volume was fairly normal. The **left ventricular outflow** tract demonstrated normal laminar flow and subjective structural integrity. **Right atrial** enlargement was also present with **tricuspid** insufficiency. The **right ventricle** was of normal size (1/3 diameter of LV), chordae structure, myocardial echogenicity and thickness. **Pulmonic** tract assessment revealed normal valve structure, laminar flow, and diameter (approx. 1:1 pa/ao ratio). Trace amounts of **pericardial** and **pleural** effusion was present. There were areas of lung consolidation. The hepatic veins were dilated.

FELINE CARDIAC PARAMETERS	BODY WEIGHT	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	13.5 lbs	215	0.57	1.54	0.65	28	58
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	1.9	2.15	2.57	1.1	0.68	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							

ULTRASONOGRAPHIC FINDINGS

Left-sided heart failure with emerging right-sided heart failure.
 Unclassified cardiomyopathy, potential myocarditis or nutritional cardiomyopathy.



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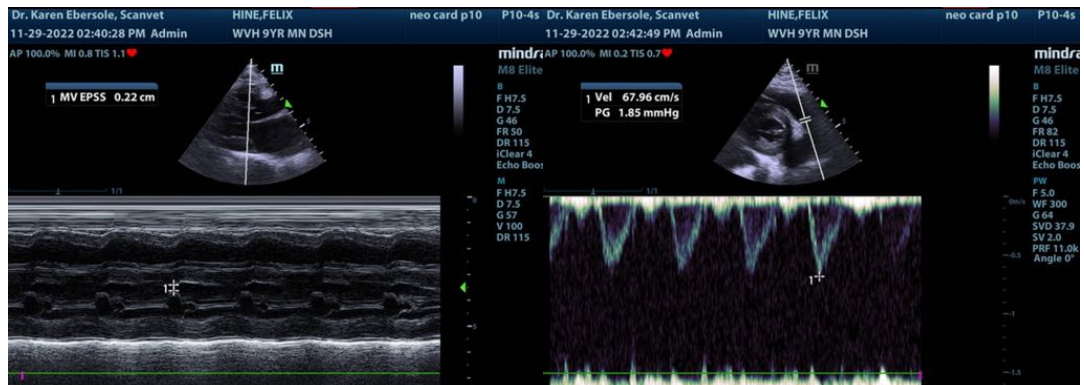
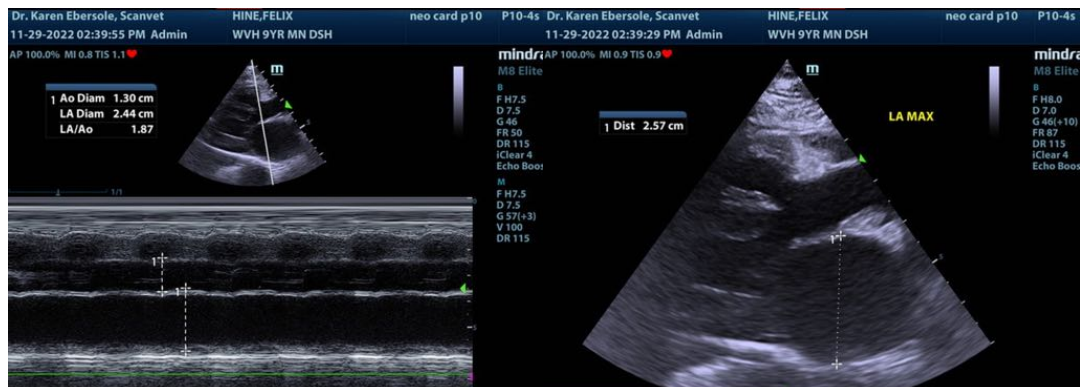
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INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

I recommend triple therapy in this patient with Lasix at 12.5 mg/kg b.i.d. diminishing to 6.25 mg b.i.d. based on clinical parameters regarding hydration and BUN and creatinine levels. Blood pressure measurements are indicated. Ace inhibitor at 0.5 mg/kg s.i.d. and off label Pimobendan at 0.3 mg/kg b.i.d. Plavix therapy is also indicated. Recheck echocardiogram is recommended in a week along with cage rest. Recheck radiographs is recommended in 36-48 hours. Prognosis is guarded.





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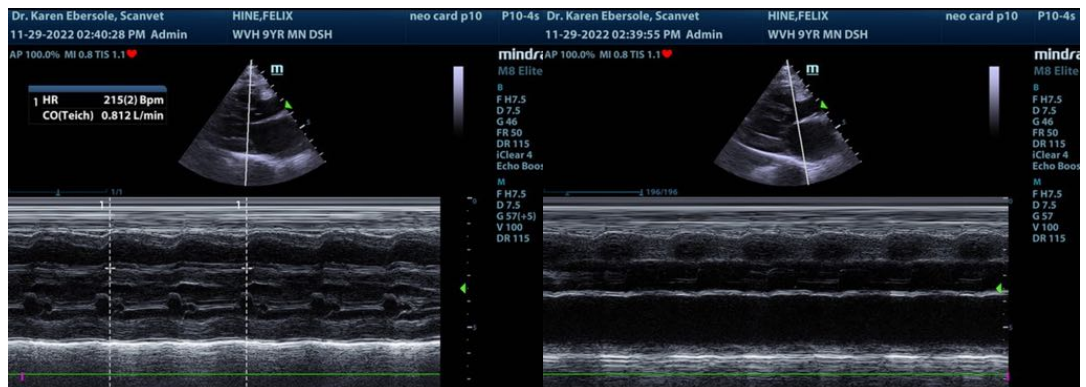
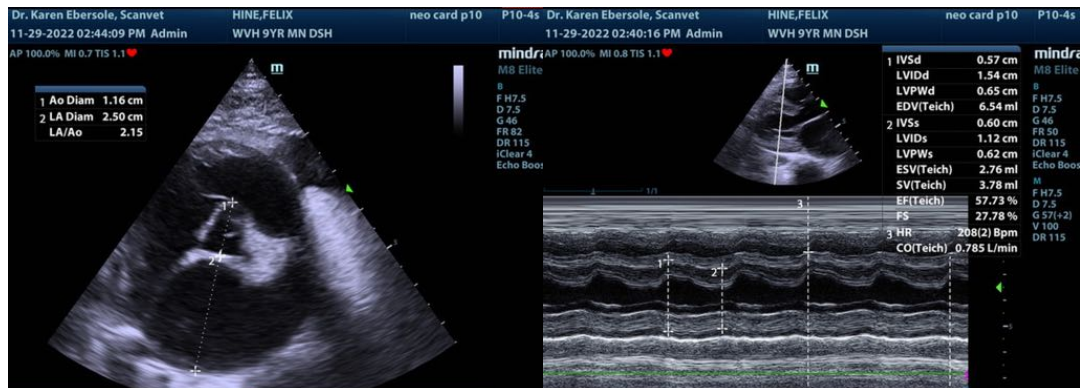
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.

Eric Lindquist, DMV, DABVP, Cert. IVUSS, CEO of SonoPath.com
info@SonoPath.com