



**PATIENT**

Zac Restaino

**SPECIES**

Feline

**BREED**

DSH

**SEX**

Neutered Male

**AGE**

8 Years 8 Months

**WEIGHT**

14.8 lbs

**INTERPRETED BY**

Eric Lindquist, DMV,  
DABVP (CFM), Cert.  
IVUSS

**IMAGING PERFORMED BY**

Vincent Ravancho, CVT

**HOSPITAL NAME**

Ridge Road Animal  
Hospital

**REFERRING VET**

Dr. Pathak

**INVOICE**

72894

**DATE**

2/11/26

**PRESENTING CLINICAL SIGNS**

HM IV/VI, Ascites, Arrhythmia Irregular, Dyspnea, Tachypnea

Medications: Vetmedin 1.25mg PO q12hr / Furosemide 12.5mg 1.5 tablet BID

Abnormal PE/Chem/CBC/UA Results: SDMA Elevated

**ULTRASONOGRAPHIC EXAMINATION OF THE HEART**

FELINE CARDIAC PARAMETERS	BODY WEIGHT (lbs)	HR (BPM)	IVSd (cm)	LVIDd (cm)	LVWd (cm)	FS (%)	EF (%)
<b>NORMAL PARAMETER</b>	-----	150-240	0.3-0.6	1.0-2.1	0.25-0.6	35-67	80-100
<b>PATIENT</b>	14.8	300+	0.5	2.0	0.5	30	--
FELINE CARDIAC PARAMETERS	LA/AO (M-mode)	LA/AO HEART BASE (Sisson)	LAD LA MAX 4 Chamber		LVOT VEL. (m/s)	RVOT VEL. (m/s)	IVRT (m/)
<b>NORMAL PARAMETER</b>	<1.5	1.6	0.7-1.7		<1.6	<1.3	40-60
<b>PATIENT</b>	>3.0	--	3.0		--	1.09	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							

E-wave velocity = 1.5

**Cardiac Presentation**

Severe volume overload noted in the left atrium. Mitral and tricuspid insufficiency noted. Slight pericardial effusion noted. Contractility was subnormal. Tachyarrhythmia was present. Sectorial remodeling and hypertrophy noted with areas of myocardial infarcts. "Smoke" noted in the left atrium, which is a precursor to clot formation. The right atrium was severely enlarged.

**ULTRASONOGRAPHIC FINDINGS**

- Unclassified cardiomyopathy with left- and right-sided heart failure, "smoke", and tachyarrhythmia.
- Slight pericardial effusion owing to left-sided heart failure.

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

This patient is at high risk for sudden death. Lasix, strict cage rest, Torbutrol for sedation, and removal of excitement issues recommended. Pimobendan 0.3 mg/kg BID, Lasix 12.5 mg/kg BID, and eventual ACE inhibitor 0.5 mg/kg SID and Plavix therapy all indicated. Heat support and oxygen warranted. If the patient survives this immediate crisis, then recheck echo in one week. Prognosis is poor.

**\*\*Note: Rapid echocardiogram performed owing to the precarious nature of the presentation.**



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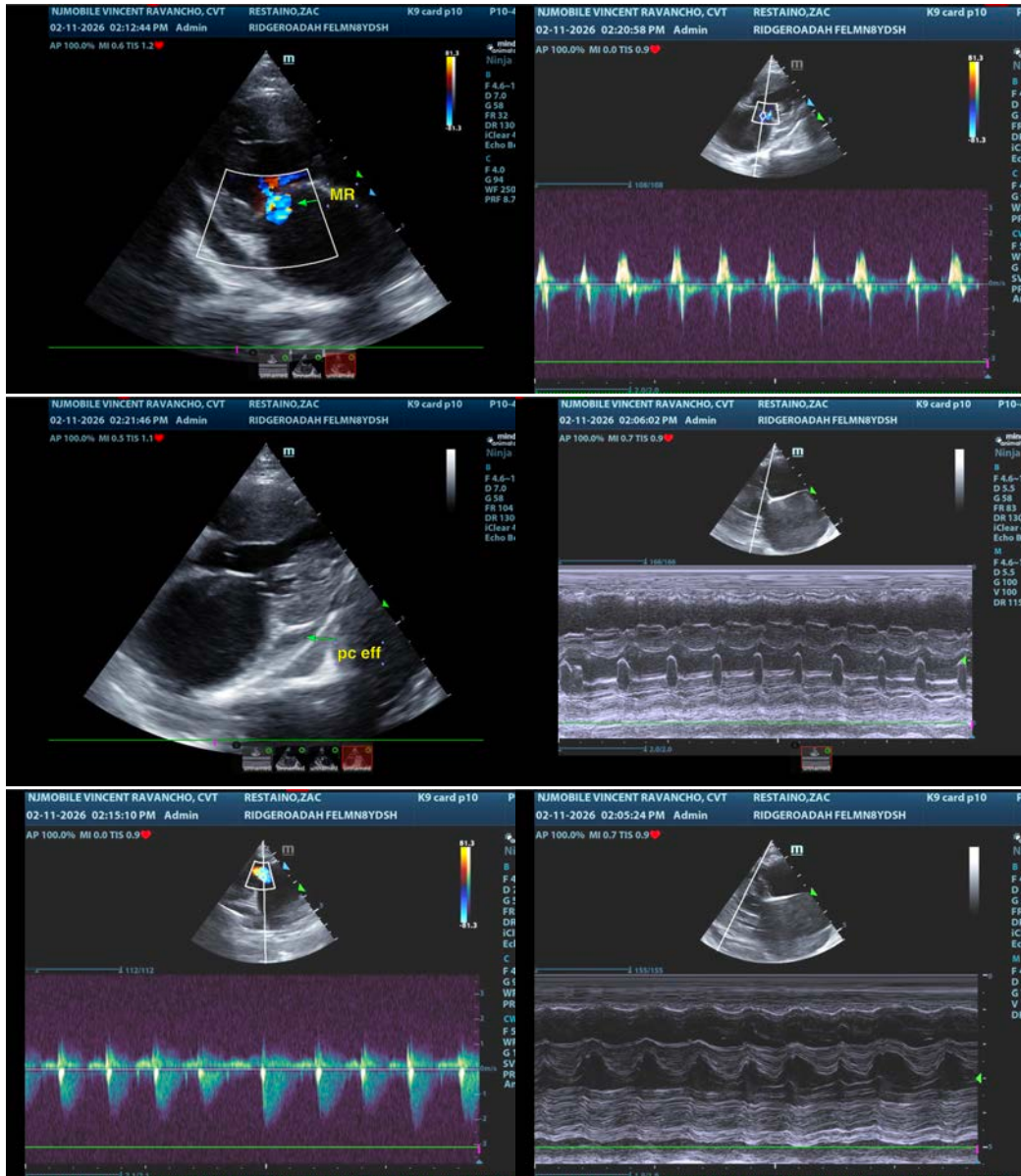
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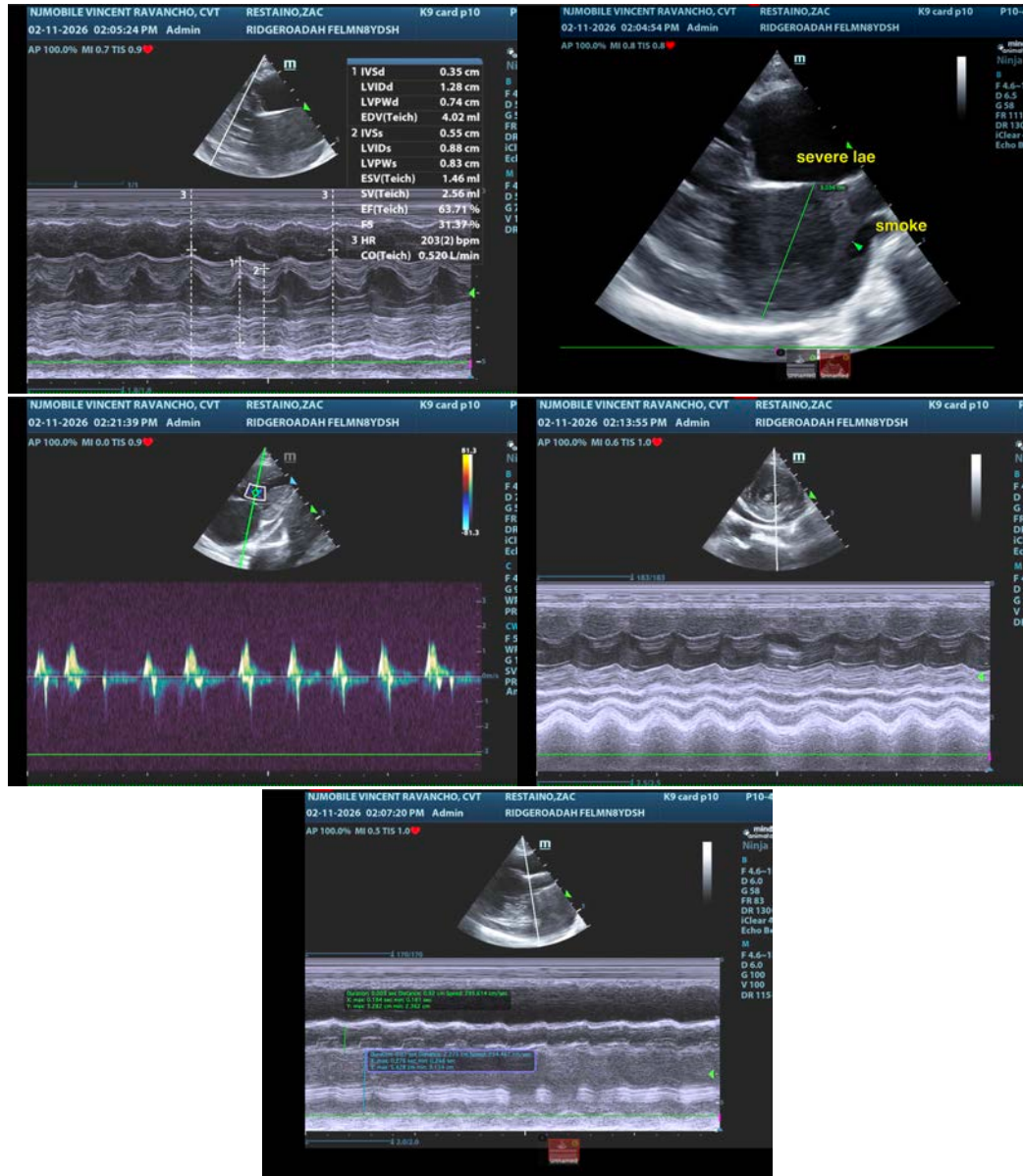
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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(CFM), Cert. IVUSS,  
 CEO, Owner, Founder -- SonoPath.com  
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