



PATIENT

Sunny Medero

SPECIES

Feline

BREED

Domestic Longhair

SEX

Female

AGE

9 years

WEIGHT

8.5 lbs

INTERPRETED BY

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

IMAGING PERFORMED BY

Shari Reffi, CVT

HOSPITAL NAME

Smithfield AH

REFERRING VET

Dr. Wildman

PRESENTING CLINICAL SIGNS

History: Soft tissue mass of the cranial thorax. Difficulty auscultating heart. (3 rads attached for reference) Current Medications: Buprenex 0.5mg/ml (0.08 ml PO up to TID prn); Maropitant 16mg tab (1/4 PO SID x 1 day then PRN); Prednisolone 5mg tab (1 tab PO am & 1/2 tab PM) BCS 5/9. Hct-28%; Hgb-9.1; Retics-55.9; Eos-0.03; Baso-0.30. UA: Glucose 4+; USG: 1.056

ULTRASONOGRAPHIC EXAMINATION OF THE THORAX

The echocardiogram in this patient demonstrated moderate **left atrial** enlargement. The **mitral** valve revealed insufficiency. There was mild volume overload of the **left ventricle**. **Contractility** was adequate. The **left ventricular outflow** tract demonstrated normal laminar flow and subjective structural integrity. The **right atrium** and auricle revealed normal size, structure and content. A large, 5+ cm, mixed, undifferentiated mass is noted associated with the right atrium. The mass envelopes the caudal vena cava and other larger vessels. **Tricuspid** insufficiency was noted. 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). Deviation of the diaphragm caudally was noted. Trace amount of pericardial effusion was noted.

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	8.5 lbs	158	0.31	1.64	0.36	37	71
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/)	
NORMAL PARAMETER	<1.5	1.6	0.7-1.7	<1.6	<1.3	40-60	
PATIENT	2.0	2.1	2.2	1.0	0.87	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							

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ULTRASONOGRAPHIC FINDINGS

Left and right atrial enlargement owing to mitral and tricuspid insufficiency.

Extensive heart base mass, appears to be of lung origin impinging upon the right atrium.

Pleural effusion was noted.



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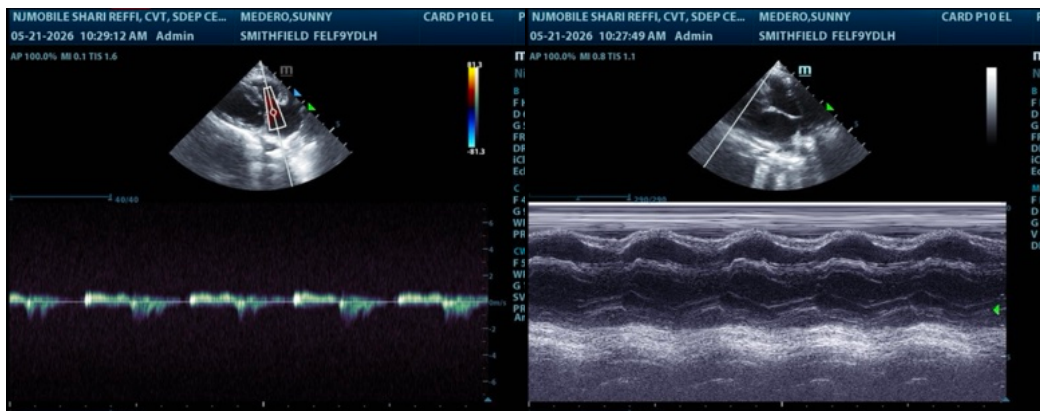
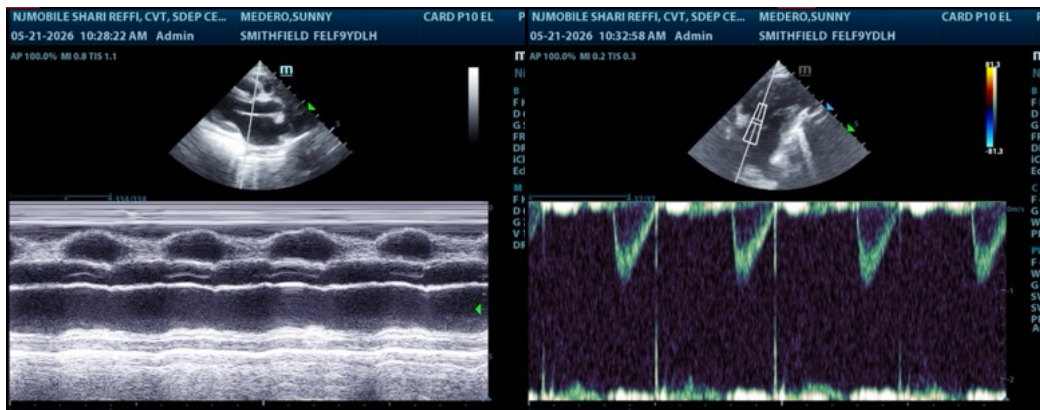
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INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

The pleural effusion could be justified by both the neoplastic process as well as potential left sided heart failure given the left atrial enlargement. Ultrasound-guided FNA of the mass was performed without complication. The radiopaque density on the thoracic radiographs is due to extensive tissue proliferation, pleural effusion and cardiomegaly. There are two separate issues in this patient. Cardiac management could be justified with low-dose Lasix at 6.25 mg b.i.d., Pimobendan at 0.3 mg/kg b.i.d. until assessment of the cytology of the mass. Thymoma is a possibility, yet less likely. Sarcoma is likely and carcinoma is less likely. CT evaluation would be necessary for further definition. This does not appear resectable. Thoracic surgical debulking effort may be appropriate depending upon cytology results and CT results. Recheck echocardiogram is recommended in 3-4 weeks from a cardiac perspective.

ABOUT SONOPATH CT SERVICES:

SonoPath CT Services are offered at the SonoPath Imaging and Veterinary Education Center, 141 Main St (rt 206), Andover, New Jersey, a 20-minute drive west on route 80/206 North from the route 80/287 interchange/Parsippany, New Jersey. More information can be found at <https://sonopath.com/services/vetimaging/>





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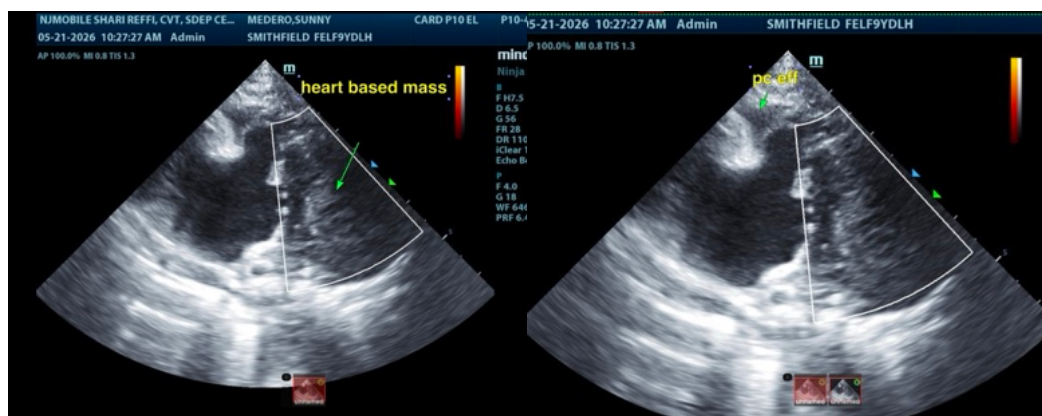
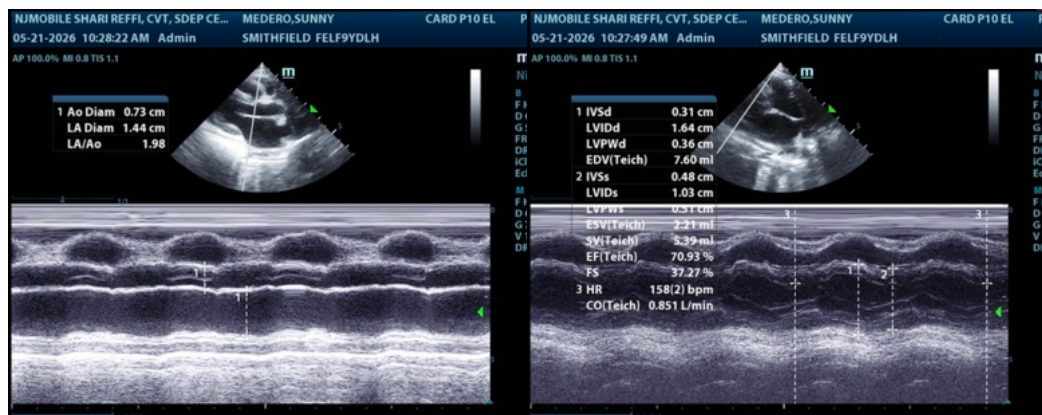
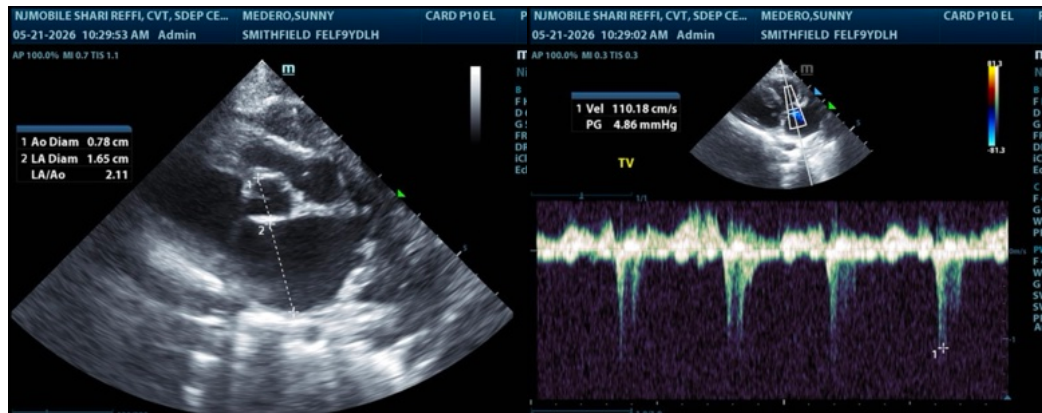
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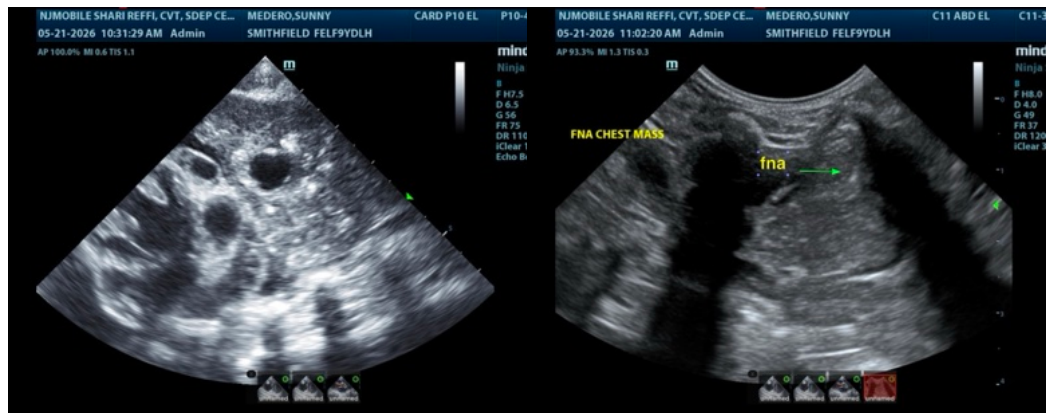
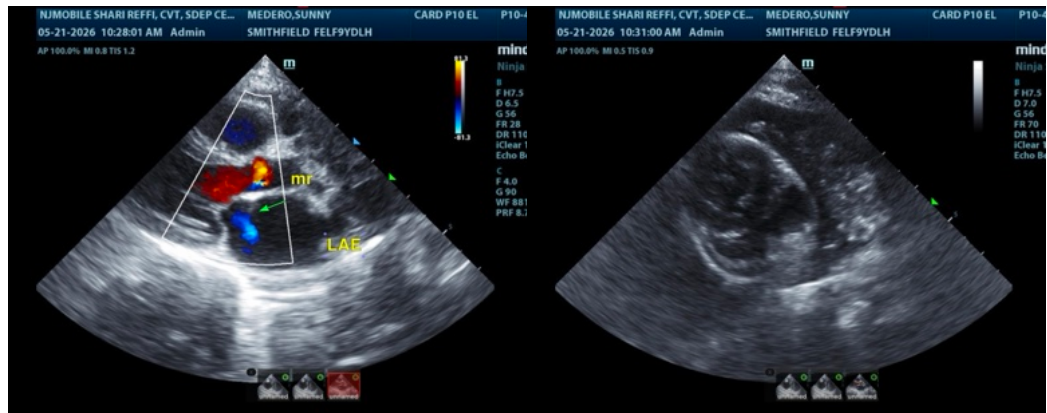
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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, Cert. IVUSS, CEO of SonoPath.com

Info@SonoPath.com