

PATIENT

Lulu Marcum

SPECIES

Canine

BREED

Maltese Mix

SEX

Spayed female

AGE

12 years

WEIGHT

8.13 lbs

PRESENTING CLINICAL SIGNS

History: P presented for possible UTI, increased respiratory effort noticed on exam. Rads showed increased opacity in R caudal lung fields

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

The echocardiogram in this patient demonstrated normal **left atrial** size based on 3 separate methods of LA evaluation. The cranial and caudal **mitral** valve leaflets presented normal linear structure, extension in systole, and union in diastole with normal kinesis. The **left ventricle** presented thicknesses with linear contour and was not dilated nor restricted. The **myocardium** presented normal echogenicity without subjective evidence of significant fibrotic or ischemic disease. **Contractility** of the ventricular walls was adequate and in normal range for this patient evidenced by the fractional shortening measurement and subjective evaluation of the different regions of the myocardium. The **left ventricular outflow** tract demonstrated normal laminar flow and subjective structural integrity. The **right atrium** and auricle revealed normal size, structure and content. No evidence of masses was noted. **Tricuspid** insufficiency was noted at 3.4 m/sec. The **right ventricle** was of normal size (1/3 diameter of LV), chordae structure, myocardial echogenicity and thickness. **Pulmonary outflow** tract assessment revealed normal valve structure, laminar flow, and diameter (approx. 1:1 pa/ao ratio). Occasional arrhythmia was noted in this patient. A 4.25 x 4.2 cm **lung** mass was noted with surrounding pleural effusion. The mass was mineralizing.

INTERPRETED BY

Eric Lindquist, DMV
 DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Kathleen Byrnes

HOSPITAL NAME

Animal Clinic Madison
 Mayodan

REFERRING VET

Dr. McKinlay

INVOICE

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CANINE CARDIAC PARAMETERS	MR VMAX (m/s)	TR VMAX (m/s)	LA/AO	LA/AO (Heart Base)	FS (%)	EF (%)	EPSS (cm)
NORMAL PARAMETER	4.5-5.5	<2.7	1.3	<1.6	28-40	40-100	<0.6
PATIENT	6.4	3.4	1.1		40		NM
CANINE CARDIAC PARAMETERS	HR (BPM)	AV VMAX (m/s)	PV MAX (m/s)	BODY WEIGHT	LA 2D short axis Base view (cm)	LVIDd Avg; 2D and m-mode short axis (cm)	LVIDs Avg; 2D and m-mode short axis (cm)
NORMAL PARAMETER	50-100	0.7-1.7	0.7-1.6	BELOW	BELOW	BELOW	BELOW
PATIENT	90	0.98	0.58	8.13 lbs	2.2	1.9	

ULTRASONOGRAPHIC FINDINGS

- Mineralizing lung mass.
- Pleural effusion.
- Tricuspid insufficiency.



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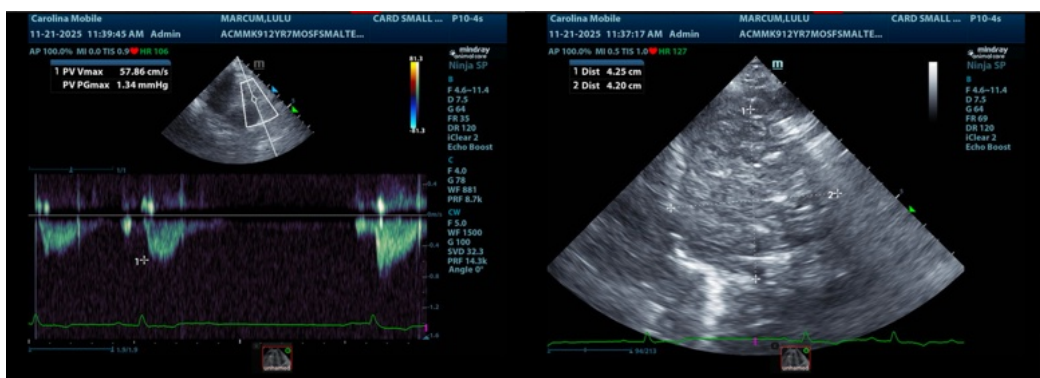
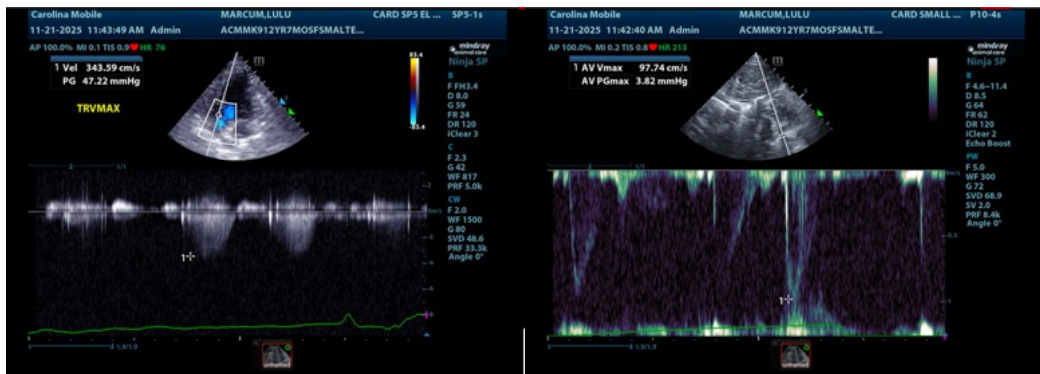
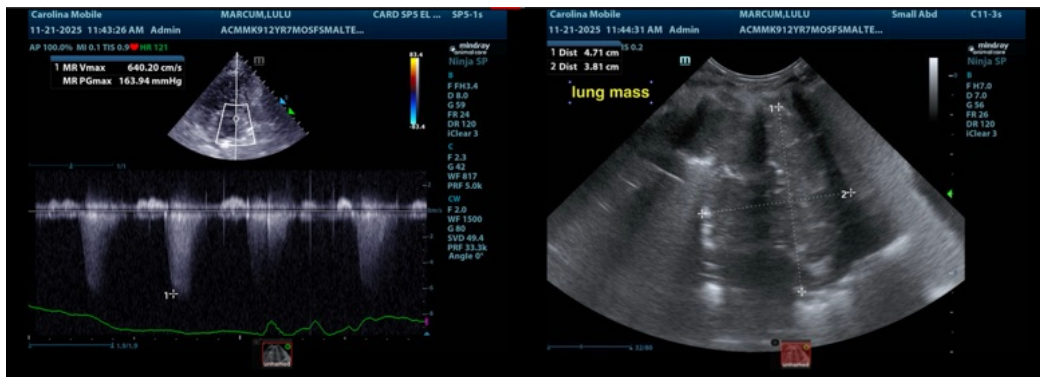
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INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

There is a strong concern for carcinoma. CT evaluation for surgical planning can be considered. However, with the pleural effusion spread into the thorax, a carcinomatosis type presentation is likely. Ultrasound-guided FNA of the mass and pleurocentesis would be ideal with cytospin for definitive diagnosis. There is a possibility of lung lobe torsion secondary to the mass. The cardiac presentation is compensated.





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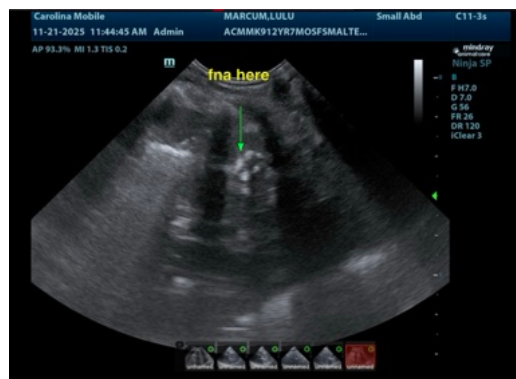
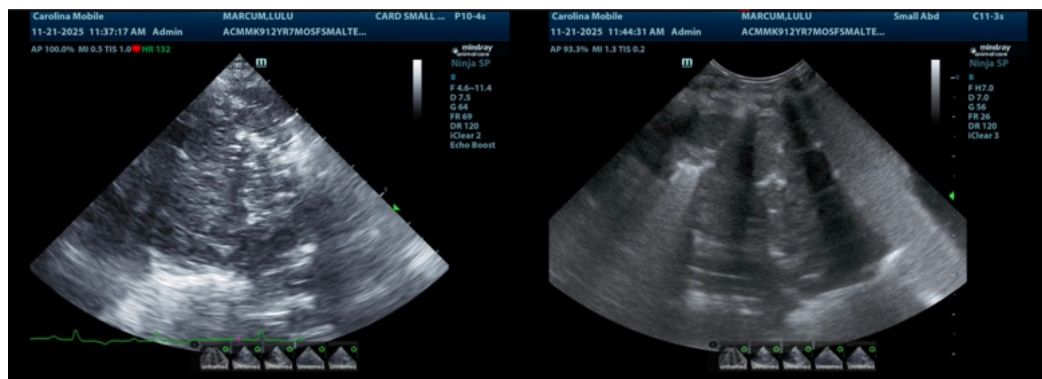
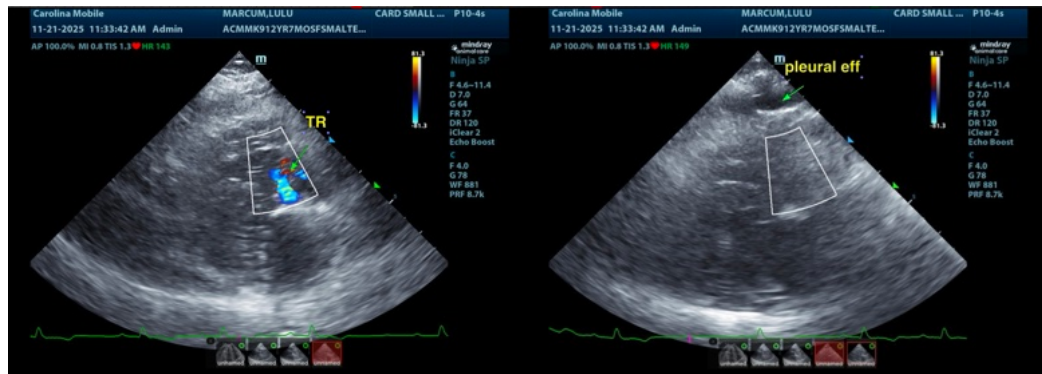
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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

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