



PATIENT

Cat Lucas

SPECIES

Canine

BREED

Beagle

SEX

Spayed Female

AGE

7 Years 7 Months

WEIGHT

29.4 Pounds

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Alex McFeely, DVM

HOSPITAL NAME

Straley VA

REFERRING VET

Alex McFeely, DVM

INVOICE

20407

DATE

1/5/23

PRESENTING CLINICAL SIGNS

History: Cat has a history of a grade IV/ VI cardiac murmur and a cough of 8-9 months duration, described as "harsh and croupy," intermittent, and had a 50% improvement with hydrocodone therapy. Survey thoracic radiographs taken on 12/20/22 (2 weeks ago) revealed mild pulmonary edema and subjective cardiomyopathy. Cat was given 2.7 mg butorphanol IV to lightly sedate for the cardiac u/s exam today. Her BP was in a normal range, mainly ranging from 142/84 (103) to 158/68 (98) mmHg systolic/diastolic (MAP).

ULTRASONOGRAPHIC EXAMINATION OF THE HEART

CANINE CARDIAC PARAMETERS	MR VMAX (m/s)	TR VMAX (m/s)	LA/AO (Boon method)	LA/AO (Heart Base; Swe)	FS (%)	EF (%)	EPSS (cm)
NORMAL PARAMETER	4.5-5.5	<2.7	1.3	<1.3	28-40	40-100	<0.6
PATIENT	--	--	2.0	Approx 2.0	--	--	NM
CANINE CARDIAC PARAMETERS	HR (BPM)	AV VMAX (m/s)	PV MAX (m/s)	BODY WEIGHT (kg)	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				
PATIENT	--	2.00	.90	--	5.0	--	--

Cardiac Presentation

The echocardiogram for this patient presented excessive **left atrial size** expressed both in the LA/AO and LA max measurements. Chamber volumes and echogenicity were normal. Prolapse of the anterior mitral valve leaflet noted. Doppler indicated measurable insufficiency. 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 or chamber overload. **Tricuspid** valvular assessment demonstrated adequate linear morphology. 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). No visible **pericardial** or free pleura fluid was noted. No echographically detectable evidence of infiltrative disease was visible. The cranial **mediastinum and pericardial regions** were free of masses in the visible window.

ULTRASONOGRAPHIC FINDINGS



PATIENT

- Advanced stage C-1 valvular disease

Cat Lucas

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

SPECIES

I recommend quadra therapy in this patient, Pimobendan 0.3 mg/kg BID, Ace-inhibitor 0.5 mg/kg SID, progressing to BID, Spironolactone 1-2 mg/kg BID, and Lasix 1-2 mg/kg BID. Recheck echo in one month.

Canine

BREED

The heart is in a somewhat precarious state with volume overload and a heart that is working to compensate for the valvular insufficiency. Target respiratory rate is < 20 resp/minute after therapy. After initiating therapy, I recommend recheck on the clinical exam, BUN, Creatinine, USG, Chest radiographs & Blood pressure in 5-7 days. Recheck echo in 1 month. Earlier if clinical decompensation is occurring. I do not recommend anesthesia at this time until stabilization has occurred on the recommended medications. Repeat preanesthetic echo is ideal if anesthesia is eventually necessary.

Beagle

SEX

Spayed Female

AGE

7 Years 7 Months

WEIGHT

29.4 Pounds

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Alex McFeely, DVM

HOSPITAL NAME

Straley VA

REFERRING VET

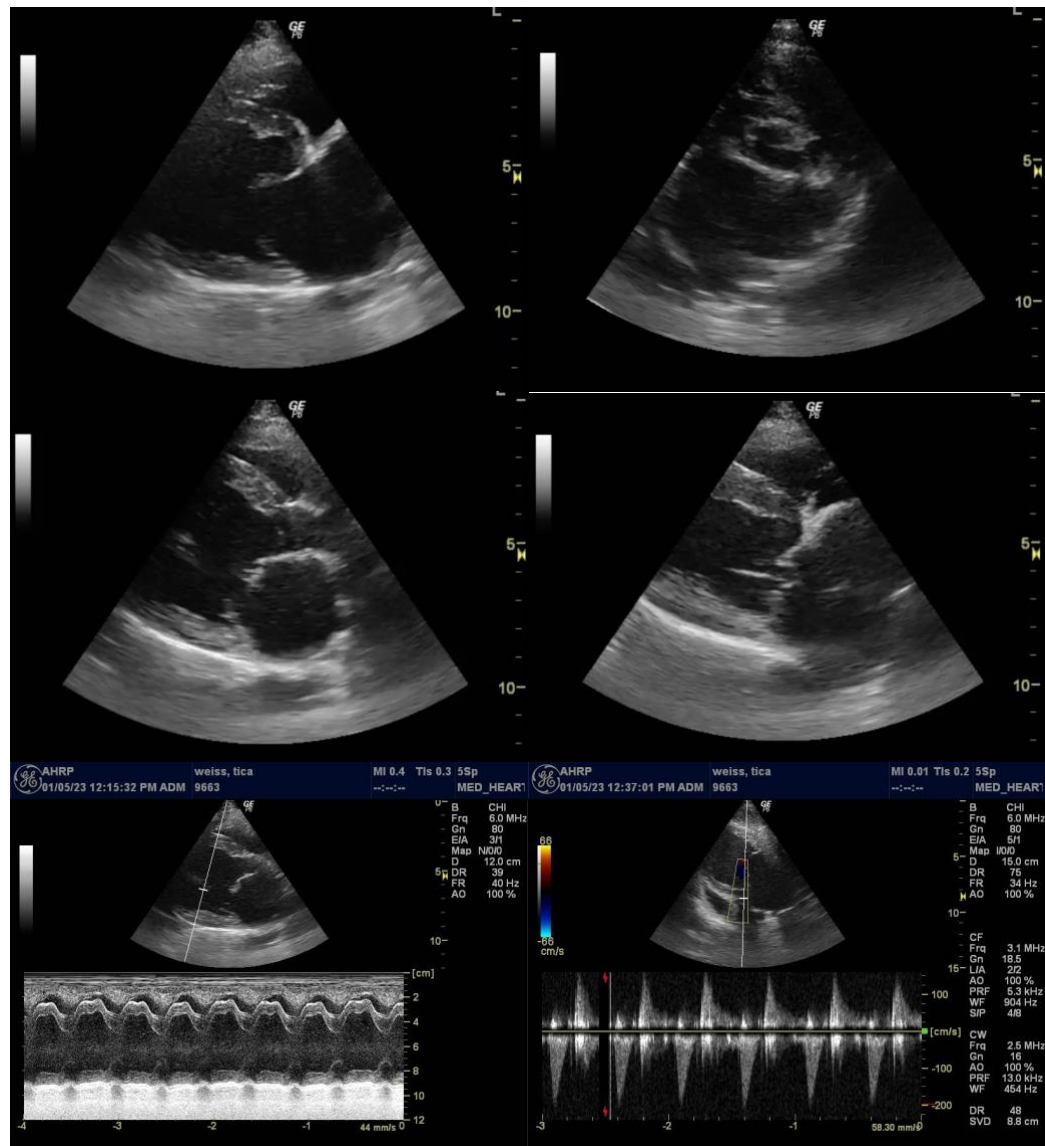
Alex McFeely, DVM

INVOICE

20407

DATE

1/5/23





PATIENT

Cat Lucas

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.

SPECIES

Canine

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.

BREED

Beagle

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

SEX

Spayed Female

AGE

7 Years 7 Months

WEIGHT

29.4 Pounds

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

**IMAGING
PERFORMED BY**

Alex McFeely, DVM

HOSPITAL NAME

Straley VA

REFERRING VET

Alex McFeely, DVM

INVOICE

20407

DATE

1/5/23