



PATIENT

Maisy Ference

SPECIES

Canine

BREED

Maltese Mix

SEX

Spayed Female

AGE

11 Years

WEIGHT

13.2 Pounds

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Kelly Vazquez

HOSPITAL NAME

Sova AH

REFERRING VET

Dr. Ammeraal

INVOICE

16713

DATE

8/5/22

PRESENTING CLINICAL SIGNS

History: Patient presented last week in CHF, grade 4/6 heart murmur; she has improved on current regimen. Current meds: Enalapril 5 mgs ½ tab BID (started on 7/30), Furosemide 12.5 mgs q 12 hrs, Pimobendan 3.75 mgs ½ tab BID.

Abnormal PE/Chem/CBC/UA Results: BUN 76, creat. 2.0 - after Enalapril and Lasix added. ALT 142, Alk. Phos. 88.

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	6.0	--	1.3	1.3	30	60	0.3
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	116	1.74	1.08	--	2.37	2.12	--

Cardiac Presentation

The echocardiogram in this patient demonstrated normal **left atrial** size based on 3 different LA measurement methods. Moderate filling of the left atrium was noted on color flow assessment. The cranial and caudal **mitral** valve leaflets presented vegetative thickening consistent with endocardiosis. 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

- Compensated mitral insufficiency

Maisy Ference

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

The volumes are under control in this patient. No volume overload was noted at this time. I recommend stopping Enalapril and weaning off of Lasix. Depending upon original presenting radiographic findings, Pimobendan may still be indicated. Blood pressure measurements and management of the azotemia are warranted. Recheck echocardiogram after 7-10 days on Pimobendan only, to assess the necessity for cardiac medications. The cardiac presentation is consistent currently with stage B-1 valvular disease, however, advanced B-2 valvular disease could've been present prior to medications.

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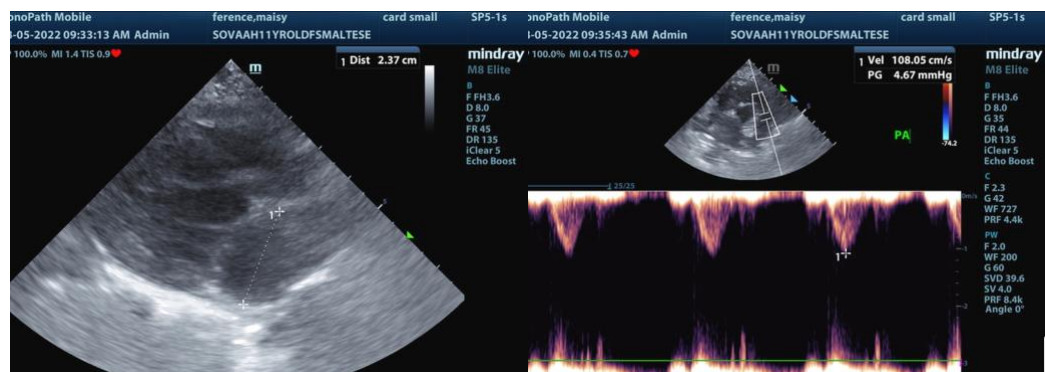
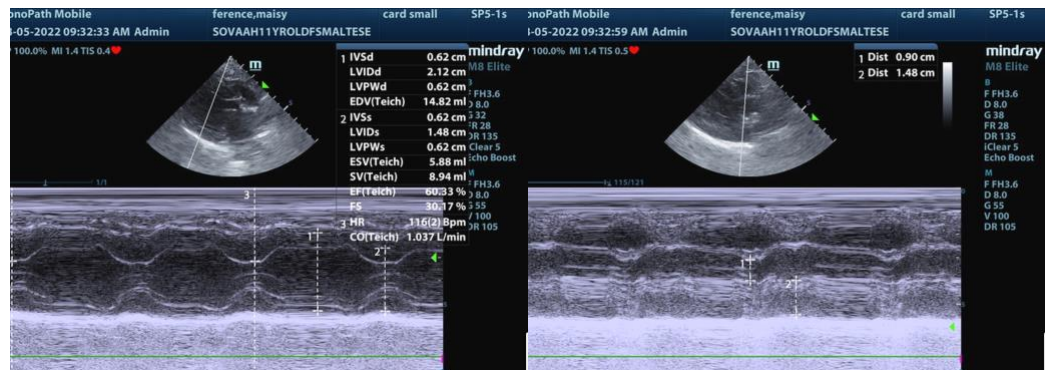
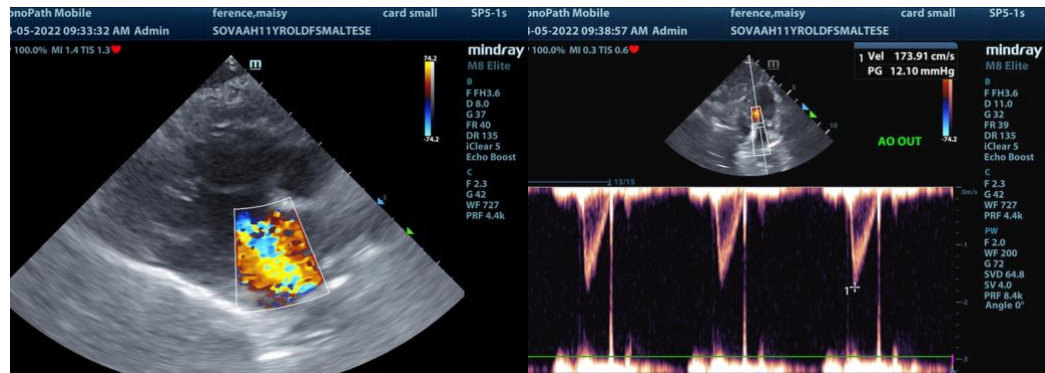
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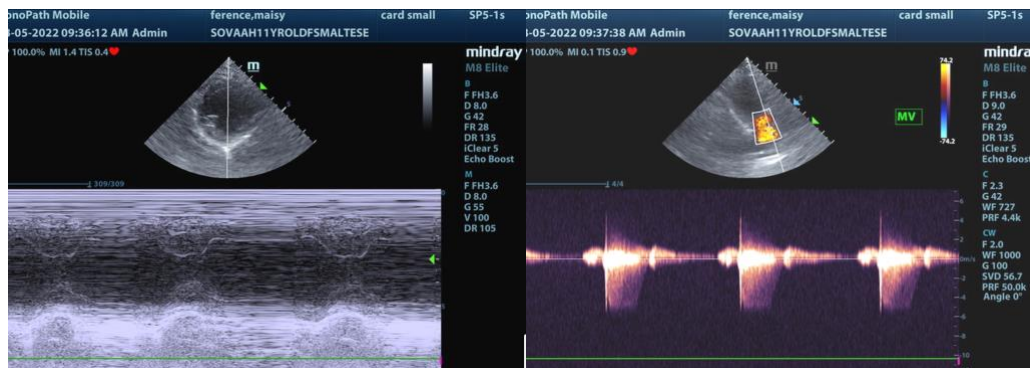
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The information and recommendations provided are based on the images presented by the referring veterinarian. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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