



PATIENT

Elsa Gouger

SPECIES

Canine

BREED

Maltese

SEX

Spayed Female

AGE

5 Years

WEIGHT

5.6 Pounds

PRESENTING CLINICAL SIGNS

History: Grade VI/VI holosystolic murmur, dyspneic 10/19, anorexic x 2 days. Thoracic rads: Pronounced cardiomegaly, pulmonary edema. Current meds: Furosemide 2mg/kg IV, O2 cage.

Abnormal PE/Chem/CBC/UA Results: wbc 21.16, Neu 19.46, bun 29.6, phos 7.3, Alt 215

LIMITED 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	<1.6	28-40	40-100	<0.6
PATIENT	--	--	2.11	2.11	16	35	0.29
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	181			--	3.83	3.64	--

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Shari Reffi, CVT

HOSPITAL NAME

Newton VH

REFERRING VET

Dr. Chun

INVOICE

13897

DATE

10/20/21

Cardiac Presentation

The cardiac presentation in this patient was highly precarious with significant volume overload of the left and right heart. Significant tachyarrhythmia noted. Severe volume overload of the left atrium and left ventricle. Hypocontractility consistent with myocardial insufficiency noted. Mitral insufficiency present. Vena cava and hepatic vein dilation noted consistent with passive congestion and emerging right sided heart failure. A limited exam without doppler was performed owing to the precarious nature of the presentation.

ULTRASONOGRAPHIC FINDINGS

- Left and right sided heart failure
- Mitral insufficiency
- Myocardial insufficiency

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

No evidence of dilated cardiomyopathy given that EPSS was normal. Underlying congenital lesion with secondary volume overload and CHF such as patent ductus arteriosus could not be completely ruled out. I recommend triple therapy and stabilization in this patient. Pimobendan at 0.3 mg per kg BID, Lasix 3-4 mg per kg BID, Ace-inhibitor 0.5 mg per kg SID progressing to BID and spironolactone at 1-2 mg per kg BID. EKG warranted owing to the tachyarrhythmia. This patient is at high risk for sudden death. If the patient is able to be stabilized, then eventual complete echocardiogram would be warranted. Prognosis is extremely guarded.



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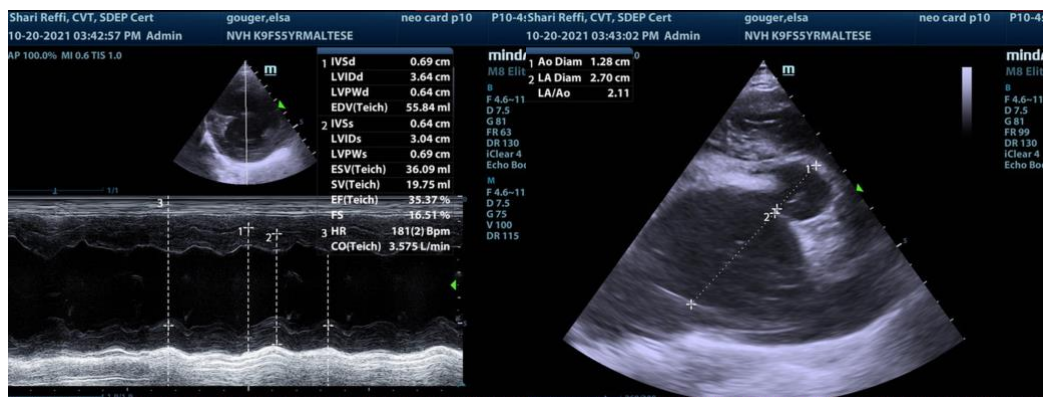
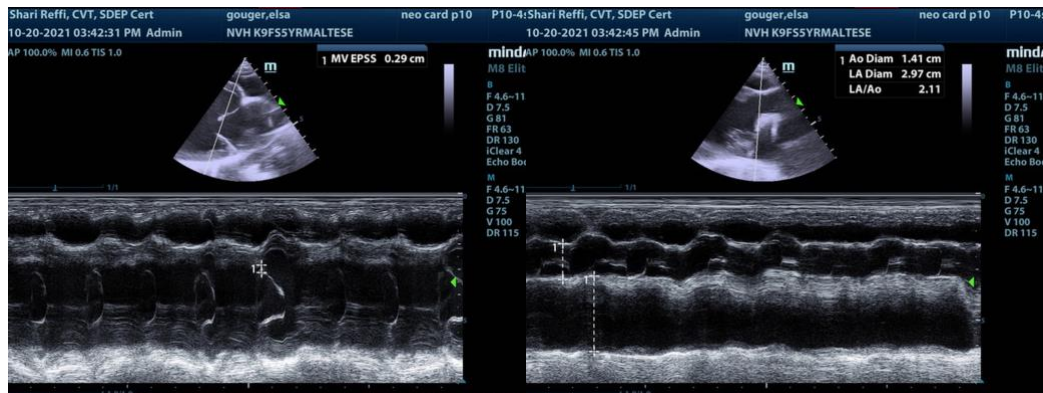
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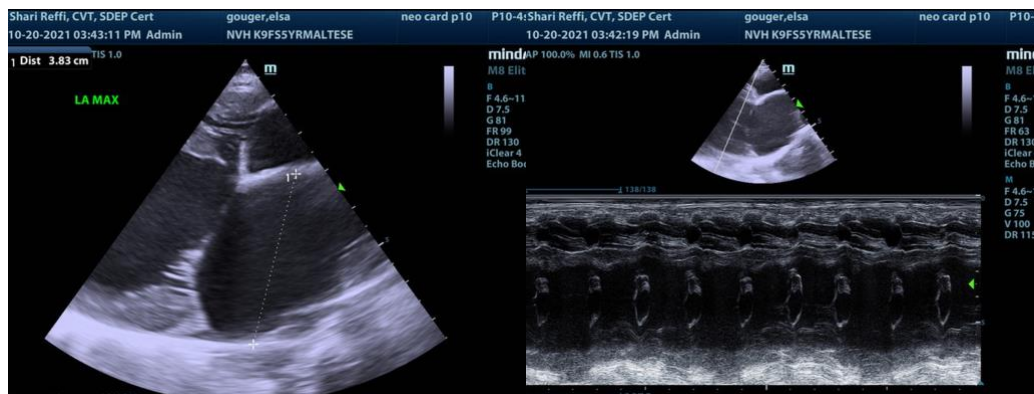
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The information and recommendations provided are based on the images presented by the referring veterinarian. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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
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