



PATIENT

Maisie Gruber

SPECIES

Canine

BREED

Havanese

SEX

Spayed female

AGE

16 years

WEIGHT

13.1 lbs

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Valeryia Shumskaya

HOSPITAL NAME

Whippany VH

REFERRING VET

Dr. Cordero

INVOICE

43987

DATE

4/25/23

PRESENTING CLINICAL SIGNS

History: prev echo 5/11/21, 4/19/22 Current meds: Levetiracetam 250mg 1.5 AM 1 afternoon, 1 Pm Pimobendan 5mg 1/2 AM 1/4 PM, Gaba 100mg 1/4 tab SID, Rimadyl 25mg 1/2 tab SIDE
Abnormal PE/Chem/CBC/UA Results: BUN 37, Plat 525

ULTRASONOGRAPHIC EXAMINATION OF THE HEART

The echocardiogram in this patient demonstrated volume overload of the **left atrium** and **left ventricle** with **mitral valve** prolapse and anterior mitral valve leaflet. The left atrial size has increased. The **contractility** appeared adequate and compensatory. The **left ventricular outflow** tract demonstrated normal laminar flow and subjective structural integrity. **Tricuspid** insufficiency is present with borderline pulmonary hypertension. The **right atrium**, **right ventricle** and **pulmonary outflow** tract were unremarkable. No visible **pericardial** or free pleura fluid was noted. The cranial **mediastinum** and **pericardial and extra-cardiac regions** were free of masses in the visible window.

| CANINE CARDIAC PARAMETERS | MR VMAX (m/s) | TR VMAX (m/s) | LA/AO (Boon method) | 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 | 5.13 | 3.0 | 2.2 | 2.28 | 45 | 71 | 0.1 |
| 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 | BELOW | BELOW | BELOW | BELOW |
| PATIENT | | 1.73 | 1.1 | 13.1 lbs | 3.3 max | 2.2 | |

ULTRASONOGRAPHIC FINDINGS

Progressive mitral valve disease with left ventricular and left atrial enlargement, decompensated compared to the prior sonogram.

The patient is not in left-sided heart failure. This is B2+ presentation.

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

I recommend adding ace inhibitor at 0.5 mg/kg s.i.d. progressing to b.i.d. and Spironolactone at 1-2 mg/kg b.i.d. Recheck BUN, creatinine, chest radiographs, sleeping respiratory rate and blood pressure over the next 5-7 days. Recheck echocardiogram is recommended in 3 months or earlier if clinical signs initiate. Assessment for cough, exercise intolerance or tachypnea are all indicated.



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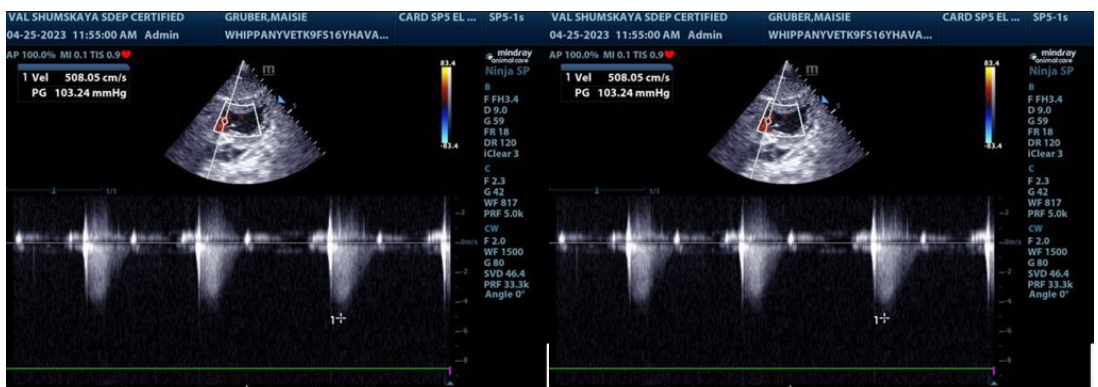
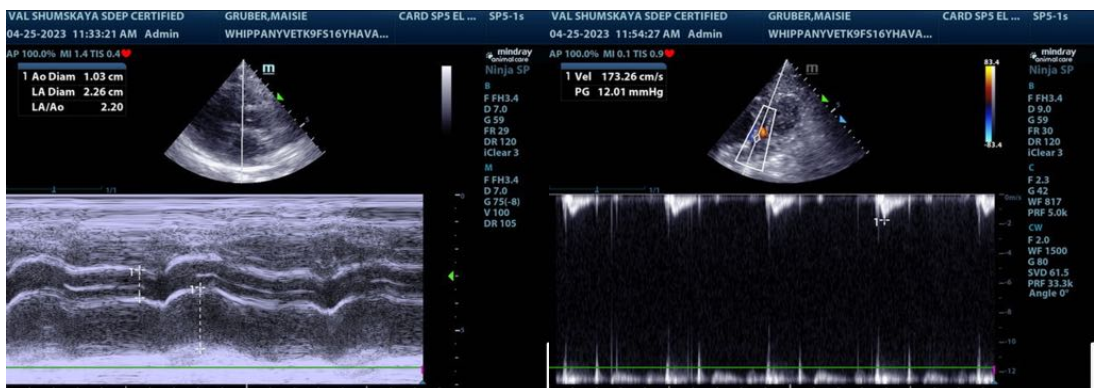
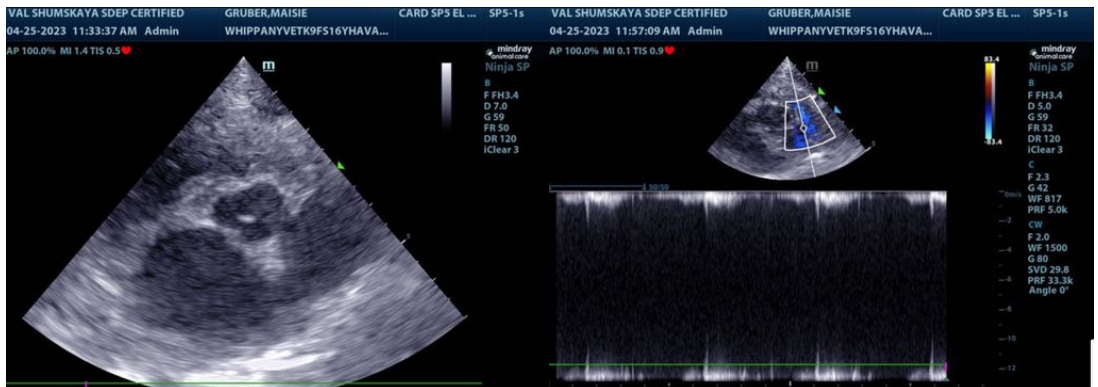
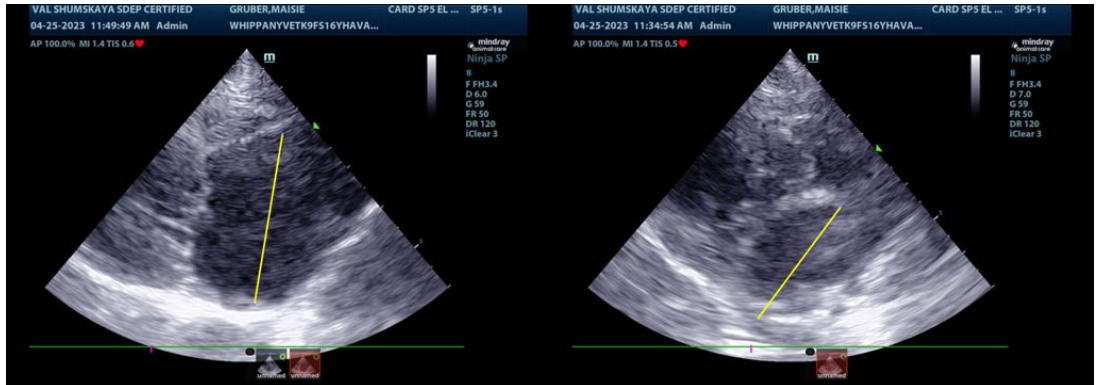
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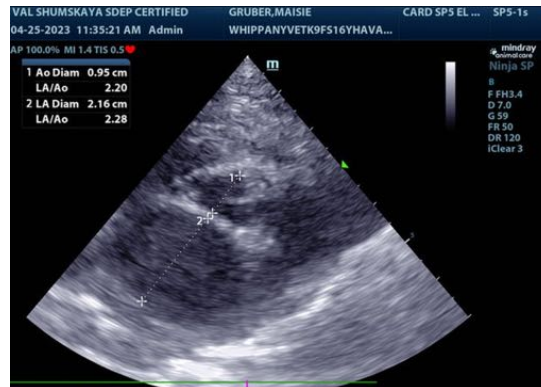
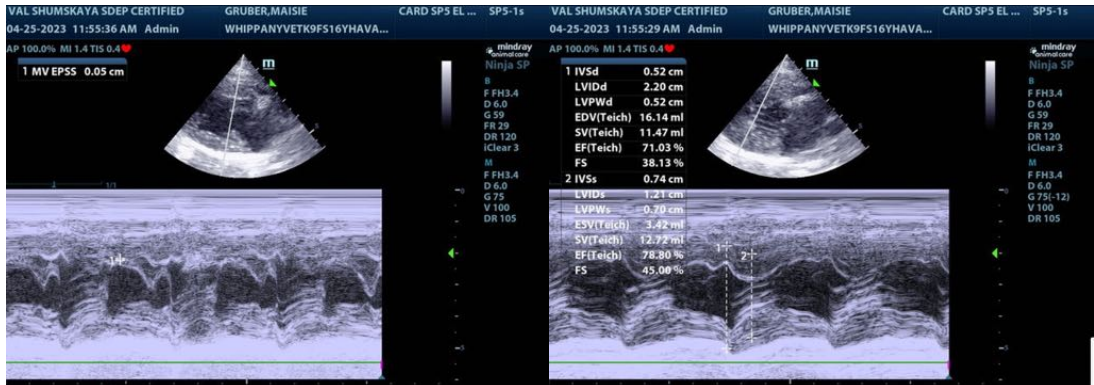
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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
info@SonoPath.com