
PATIENT PRESENTING CLINICAL SIGNS

Mazie Sulano History: increased coughing, grade 3/6 systolic murmur. On spironolactone 25 mg x 1/4 bid, Pimobendan 2.5 mg x 3/4 bid, cough tabs prn
 Abnormal PE/Chem/CBC/UA Results: wnl

SPECIES

Canine

ULTRASONOGRAPHIC EXAMINATION OF THE HEART
BREED

Pomeranian

The echocardiogram in this patient presented severe volume overload of the **left atrium** and left ventricle with severe pulmonary hypertension given the TR velocity. No pericardial or pleural effusion was noted. Arrhythmogenic activity was noted. Myocardial contractility was subnormal for this type of pathology and non-compensatory. The hepatic veins were dilated and the vena cava had a 1.3:1 ratio with the aorta.

SEX

Spayed female

AGE

12 years

WEIGHT

11.1 lbs

INTERPRETED BY

 Eric Lindquist, DMV
 DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Diane McFadden, RVT

HOSPITAL NAME

Newton VH

REFERRING VET

Dr. Wyman Greenwald

INVOICE

46667

DATE

8/17/23

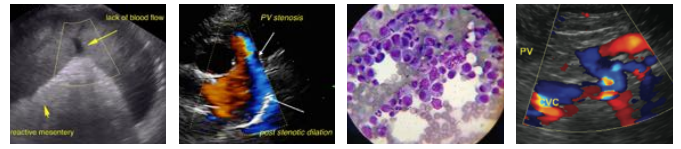
CANINE CARDIAC PARAMETERS	MR VMAX (m/s)	TR VMAX (m/s)	LA/AO (Boon method)	LA/AO (Heart Base;)	FS (%)	EF (%)	EPSS (cm)
NORMAL PARAMETER	4.5-5.5	<2.7	1.3	Up to 1.6	28-40	40-100	<0.6
PATIENT	5.0	4.9	> 2.3	>3.4	46	79	0.1
CANINE CARDIAC PARAMETERS	HR (BPM)	AV VMAX (m/s)	PV MAX (m/s)	BODY WEIGHT	LA (2D short 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	154	1.0	0.6	11.1 lbs	4.23	3.3	

ULTRASONOGRAPHIC FINDINGS

Early left sided heart failure.

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

I recommend adjustment of medications adding ace inhibitor at 0.5 mg/kg s.i.d. progressing to b.i.d. along with the Spironolactone and adding Lasix at 2-3 mg/kg b.i.d. I recommend monitoring blood pressure measurements, BUN, creatinine and urine specific gravity as well as chest radiographs as well as basal respiratory rate target is less than 25/minute. Hycodan can be utilized for cough. A recheck echocardiogram is recommended in a month. The prognosis is extremely guarded in this patient. Eventual Sildenafil may be necessary in this patient. Chronic respiratory disease is likely playing a role in the pulmonary hypertension. Pulmonary hypertension is likely not just secondary to left-sided failure.



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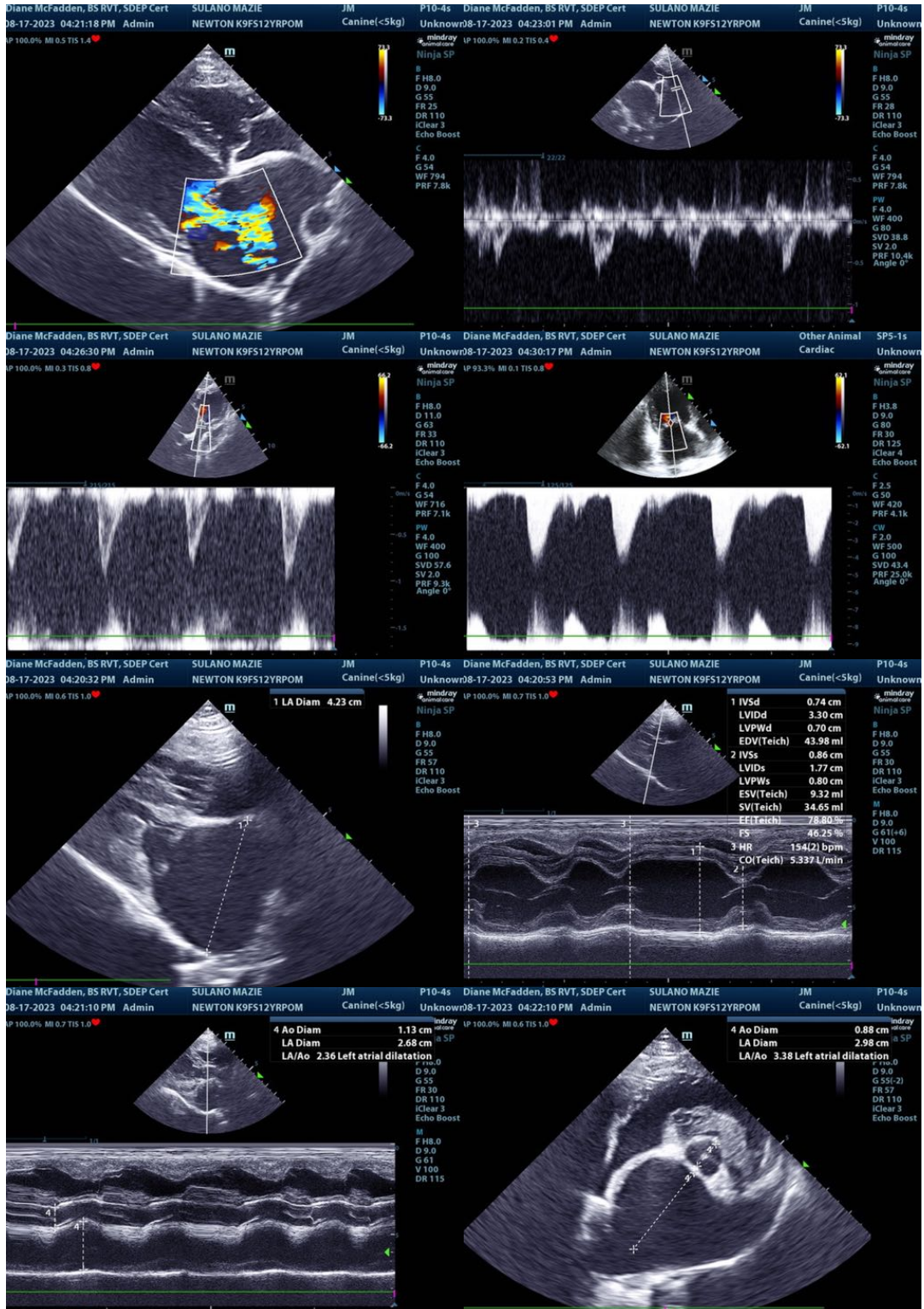
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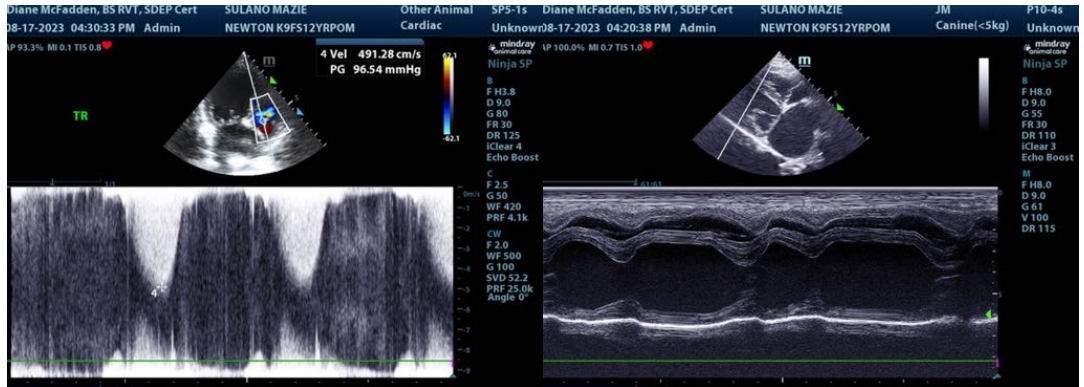
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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, CEO of SonoPath.com
Info@SonoPath.com