



PATIENT PRESENTING CLINICAL SIGNS

Yogi Bear Jones

History: Patient presents for elevated ProBNP. Previous echo - no cardiac meds indicated. Current meds: Benazepril 20mgs 1/2 tab QD, Denamarin, joint supplement, Galliprant, Gabapentin, Taurine supplement/CoQ10.

SPECIES

Abnormal PE/Chem/CBC/UA Results: ALT 185, ALP 707, BNP 2,650.

Canine

BREED

Golden Doodle

SEX

Neutered male

AGE

11 years

WEIGHT

84 lbs

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Kelly Vazquez, CVT

HOSPITAL NAME

Legacy AH

REFERRING VET

Dr. Pontezone

INVOICE

91682

DATE

9/1/21

ULTRASONOGRAPHIC EXAMINATION OF THE HEART

There was mild volume overload of the **left atrium** and **left ventricle** with **mitral** insufficiency. The **myocardium** presented normal echogenicity without subjective evidence of significant fibrotic or ischemic disease. 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. Minor **tricuspid** insufficiency was noted on spectral Doppler. The **right ventricle** was of normal size (1/3 diameter of LV), chordae structure, myocardial echogenicity and thickness. **Pulmonary outflow** 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. The cranial **mediastinum** and **pericardial** and **extra-cardiac** regions were free of masses in the visible window.

CANINE	MR	TR	LA/AO	LA/AO	FS	EF	EPSS
CARDIAC PARAMETERS	VMAX (m/s)	VMAX (m/s)	(Boon method)	(Heart Base; Swe)	(%)	(%)	(cm)
NORMAL PARAMETER	4.5-5.5	<2.7	1.3	<1.6	28-40	40-100	<0.6
PATIENT	6.0		1.3	1.5	24	48	0.35
CANINE	HR	AV	PV	BODY WEIGHT	LA	LVIDd	LVIDs
CARDIAC PARAMETERS	(BPM)	VMAX (m/s)	MAX (m/s)		2D short axis Base view (cm)	Avg; 2D and m-mode short axis (cm)	Avg; 2D and m-mode short axis (cm)
NORMAL PARAMETER	50-100	0.7-1.7	0.7-1.6				
PATIENT	90	1.54	1.3	84 lbs	4.63 max	4.65	

ULTRASONOGRAPHIC FINDINGS

Consistent with early stage B2 valvular disease.

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Underlying nutritional cardiomyopathy may be an issue in this patient. Taurine levels are warranted along with blood pressure measurements. Thyroid assessment is indicated. Pimobendan is indicated at 0.3 mg/kg b.i.d. If systolic blood pressure is > 160 then ace inhibitor therapy can be considered. Taurine levels would be ideal as well as taurine supplementation and/or diet change to treat for nutritional



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cardiomyopathy. Recheck sonogram is recommended in a month or earlier if clinical signs initiates or murmur grade increases. Underlying infectious agents such as Bartonella should be considered as Lyme disease that may be causing a low-grade myocarditis. Full parameters for dilative cardiomyopathy are not present in this patient only hypocontractility in the light of mild volume overload of the left ventricle and left atrium with mitral insufficiency. In the case of mitral insufficiency the contractility should be elevated to be compensatory; therefore, the lower contractility is suggestive of underlying myocardial disease.

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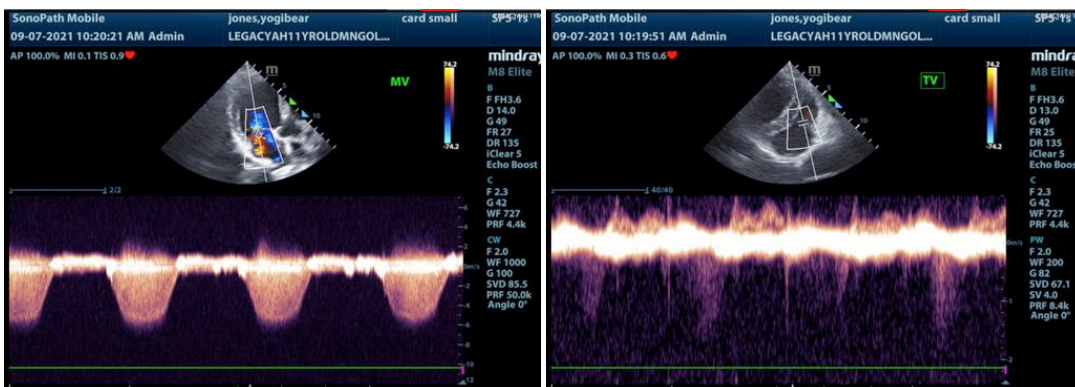
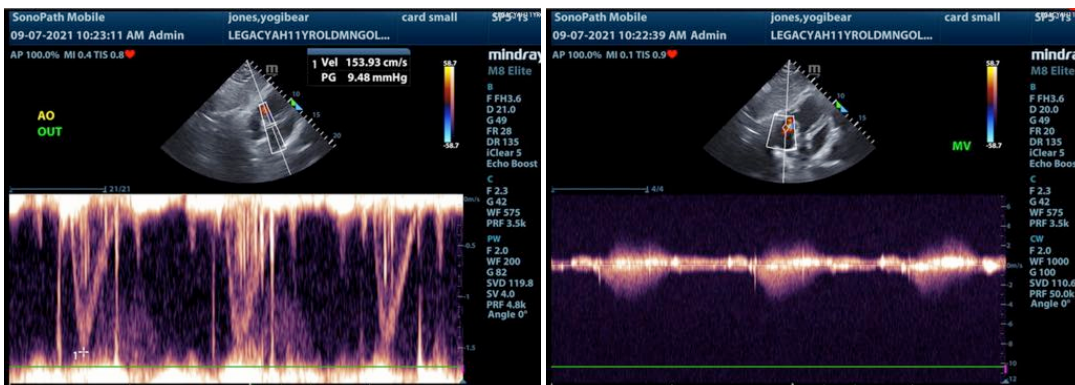
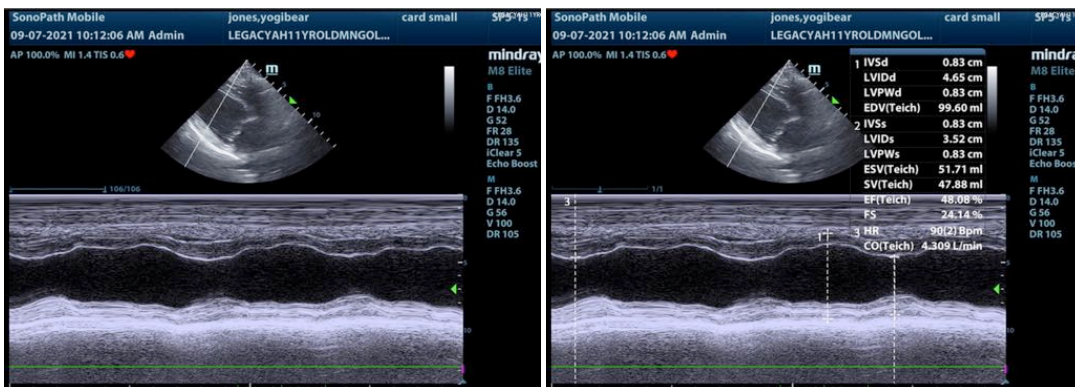
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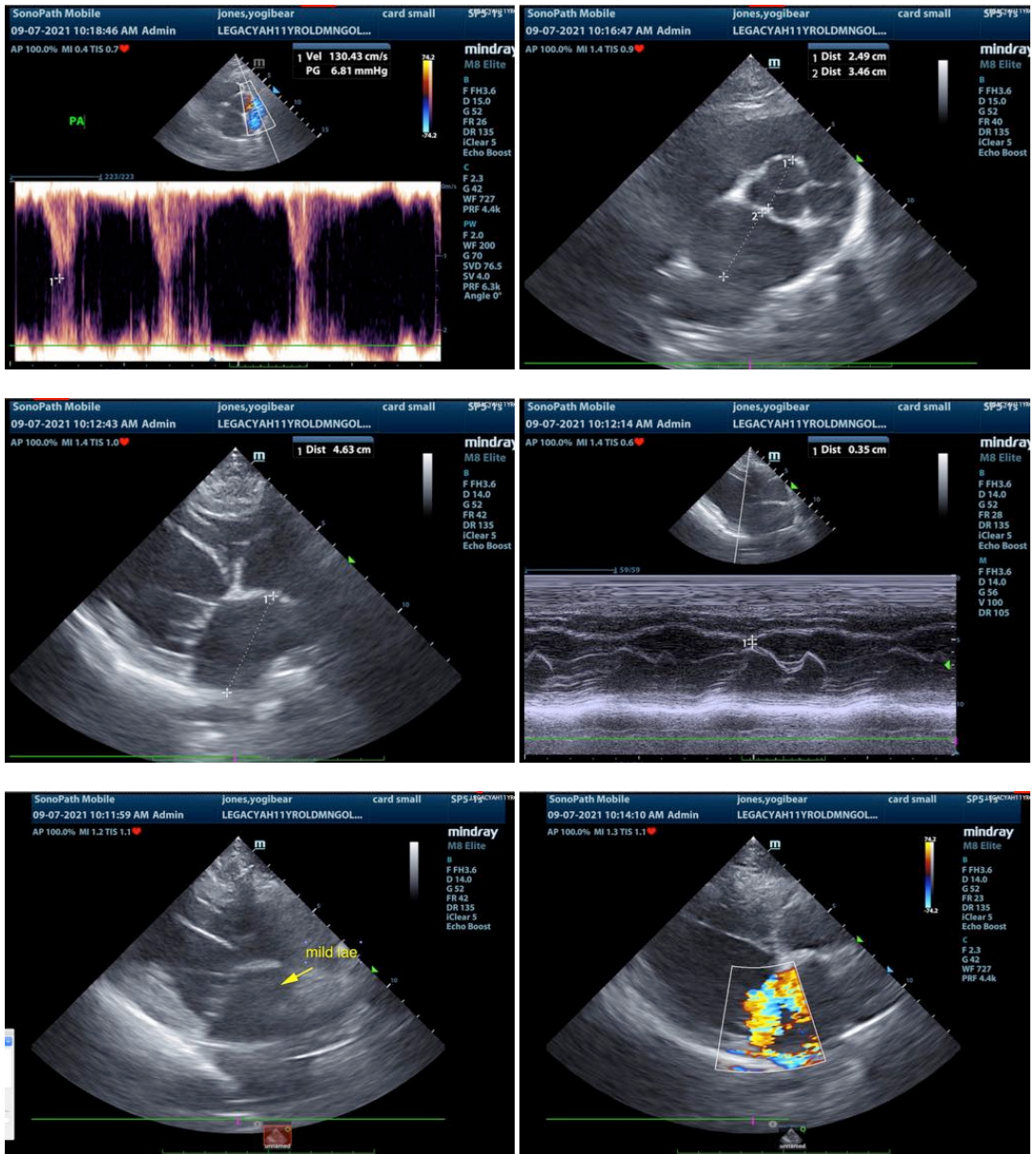
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The information and recommendations provided are based on the images presented by the referring veterinarian. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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