



PATIENT PRESENTING CLINICAL SIGNS

Daisy Olson

History: She presented to another clinic for exercise intolerance and heavy breathing. She was diagnosed with an enlarged heart via lateral radiographs as well as osteoarthritis. She was described as having a grade 3 of 6 murmur at that time. A grain free diet had been fed until 3 months ago. In the office today she was a grade 2/6. Treatment was started with gabapentin, methocarbamol, and previcox and she was referred for an echocardiogram.
Abnormal PE/Chem/CBC/UA Results: none

SPECIES

Canine

BREED

Border Collie

SEX

Spayed female

AGE

10 years

WEIGHT

46 lbs

ULTRASONOGRAPHIC EXAMINATION OF THE HEART

The echocardiogram in this patient demonstrated normal **left atrial** size based on 3 separate methods of LA evaluation. Minor, centralized **mitral** valve insufficiency was noted, yet not clinically significant. 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. **Tricuspid** valvular assessment demonstrated adequate linear morphology and kinesis. 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.

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Dr. McGee

HOSPITAL NAME

Bridgeport AH

REFERRING VET

Dr. McGee

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			1.1	1.5	39	71	0.29
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		1.3		46 lbs	3.35	3.67	

INVOICE

43868

DATE

4/3/23



PATIENT

ULTRASONOGRAPHIC FINDINGS

Daisy Olson

Early stage B1 valvular disease.

SPECIES

Canine

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

BREED

Border Collie

There was no evidence of cardiac disease that would be responsible for exercise intolerance. Orthopedic pain, CNS or thoracic disease should be considered or occult arrhythmia. Holter monitor may be appropriate. This can be obtained from our office. No negative effects from grain free diet appears to be present as contractility/function appears to be normal.

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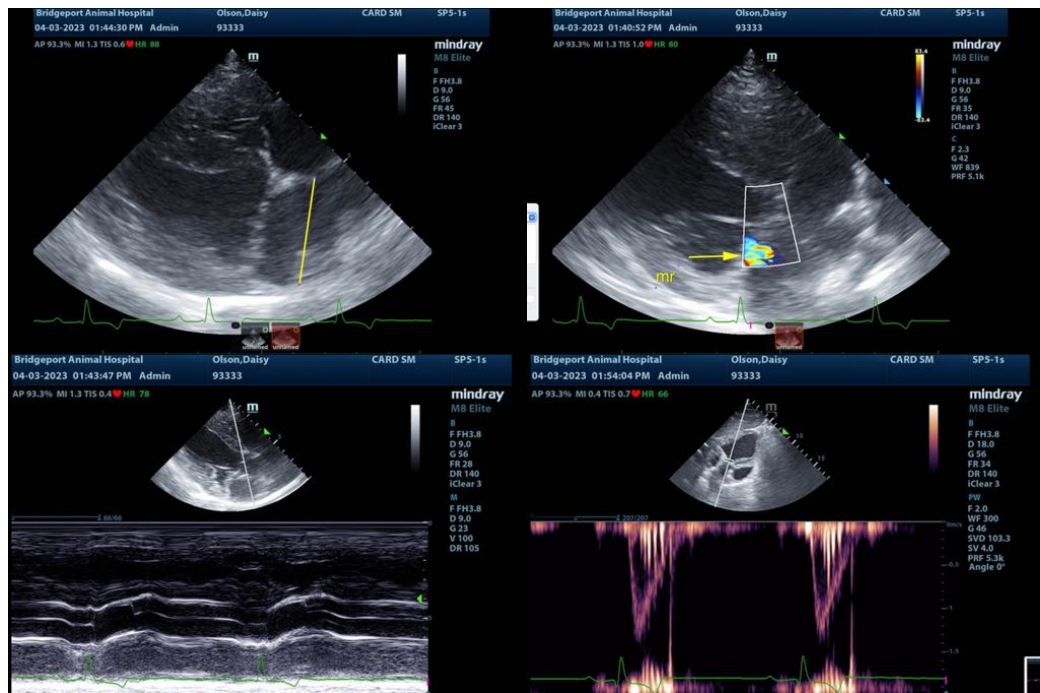
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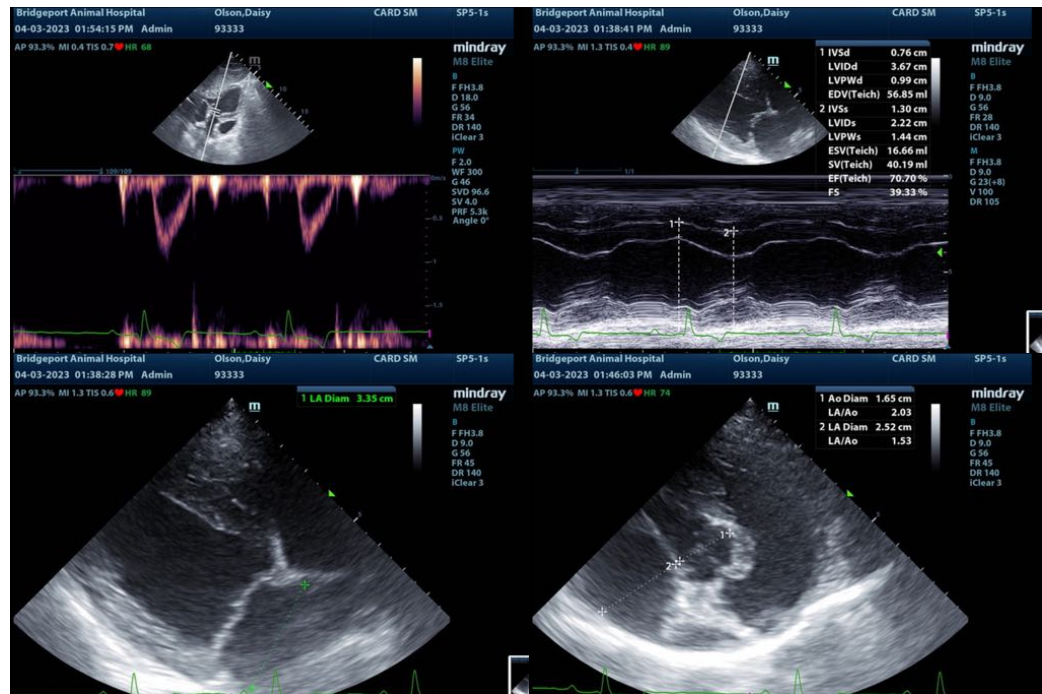
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.

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