



PATIENT PRESENTING CLINICAL SIGNS

PATIENT Gene Zarro
SPECIES Canine
BREED King Charles Cocker Spaniel
SEX Neutered male
AGE 9 years
WEIGHT 28 lbs

PRESENTING CLINICAL SIGNS
 History: Heart murmur found on wellness exam. Owner reports he gets more tired recently. Started Pimobendan on 7/25.
 Abnormal PE/Chem/CBC/UA Results: PE: Grade 4/6 systolic murmur on L RADS: cardiomegaly with LA bulge.

ULTRASONOGRAPHIC EXAMINATION OF THE HEART

The **left atrium** was borderline enlarged on all three left atrial measurements. The cranial and caudal **mitral** valve leaflets presented vegetative thickening consistent with endocardiosis. Mitral insufficiency created complete filling of the left atrium on color flow assessment. Minor prolapse of the anterior mitral valve leaflet was noted. Doppler indicated measurable insufficiency. 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 or chamber overload. **Tricuspid** valvular assessment demonstrated adequate linear morphology. The **right ventricle** was of normal size (1/3 diameter of LV), chordae structure, myocardial echogenicity and thickness. **Pulmonic** 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. No echographically detectable evidence of infiltrative disease was visible. The cranial **mediastinum and pericardial regions** were free of masses in the visible window.

INTERPRETED BY

Eric Lindquist, DMV
 DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Dr. Ebersole

HOSPITAL NAME

Scanvet

REFERRING VET

Dr. Golden

INVOICE

32081

DATE

7/29/22

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	5.83		1.7	1.6	55	90	NM
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		1.84	1.05	28 lbs	1.8 max	2.87	



PATIENT ULTRASONOGRAPHIC FINDINGS

Gene Zarro Consistent with B2 valvular disease.

SPECIES INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Canine

Pimobendan can be utilized at 0.3 mg/kg b.i.d., blood pressure measurements and if the systolic pressure is >160 then ace inhibitor could be considered.

BREED

King Charles Cocker
Spaniel

The heart has some volume overload and is working to compensate for the valvular insufficiency. Target respiratory rate is < 20 resp/minute after therapy. After initiating therapy, I recommend recheck on the clinical exam, BUN, Creatinine, USG, Chest radiographs & Blood pressure in 5-7 days. Recheck echo in 1 month. Earlier if clinical decompensation is occurring. I do not recommend anesthesia at this time until stabilization has occurred on the recommended medications. Repeat preanesthetic echo is ideal if anesthesia is eventually necessary

AGE

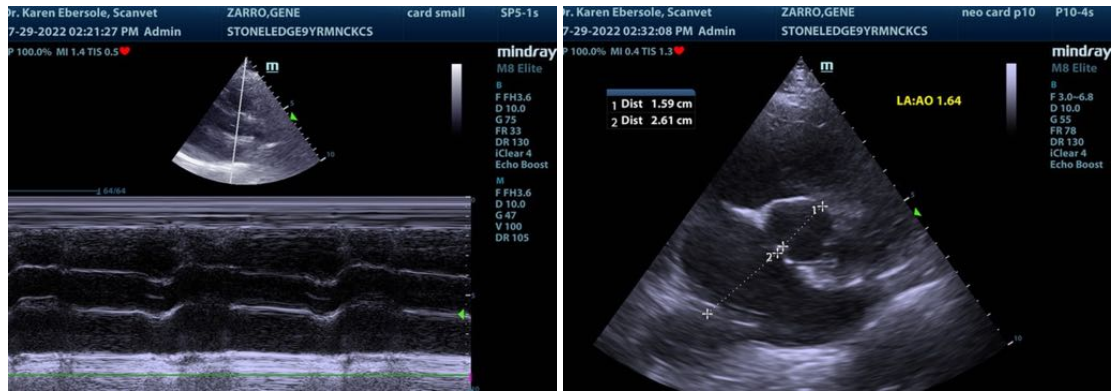
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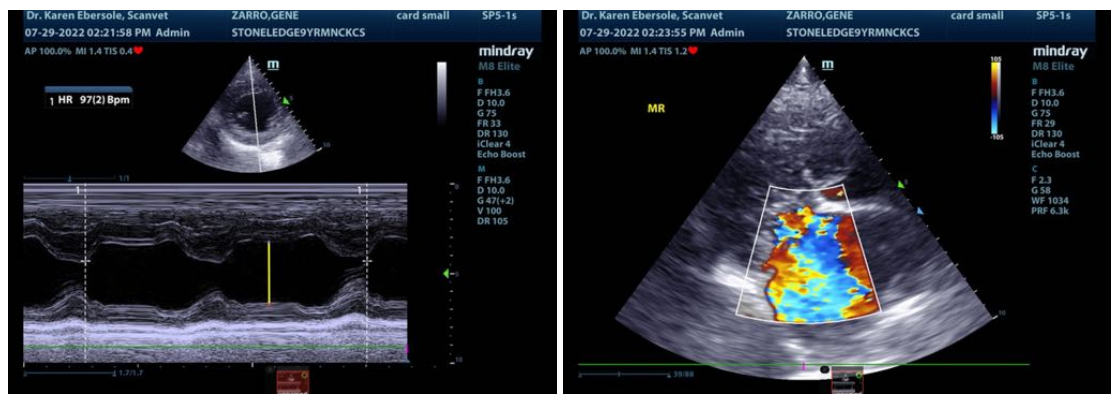
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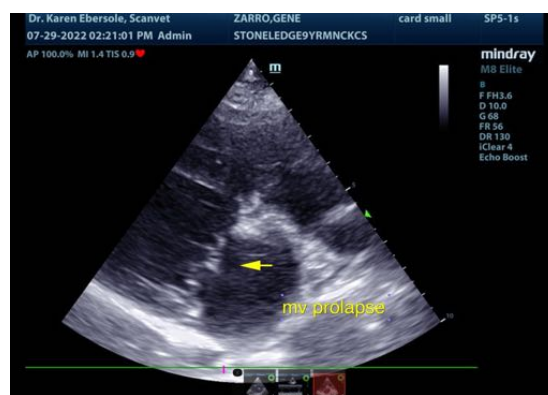
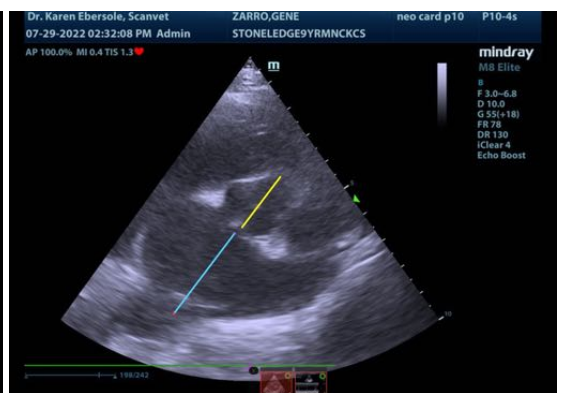
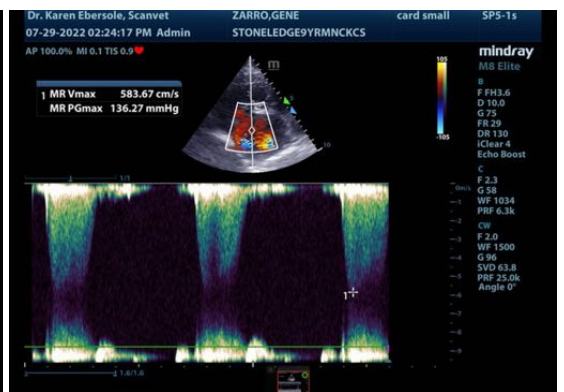
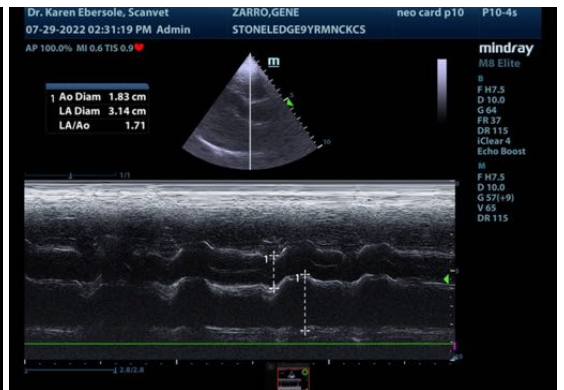
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PATIENT

Gene Zarro

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.

SPECIES

Canine

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.

BREED

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Spaniel

Eric Lindquist, DMV, DABVP, Cert. IVUSS, CEO of SonoPath.com
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