



**PATIENT**

Cooper Pizzirusso

**SPECIES**

Canine

**BREED**

Cavachon

**SEX**

Neutered Male

**AGE**

5 Years 6 Months

**WEIGHT**

19.6 Pounds

**INTERPRETED BY**

Eric Lindquist, DMV,  
DABVP (Canine &  
Feline), Cert. IVUSS

**IMAGING PERFORMED BY**

Carla

**HOSPITAL NAME**

ACC Flanders

**REFERRING VET**

Dr. Halihan

**INVOICE**

37007

**DATE**

5/8/26

**PRESENTING CLINICAL SIGNS**

History: Grade 2-3/6 systolic murmur. Left sided murmur. Pre Dental echocardiogram. Patient has fracture of left carnassial tooth with root exposure - mouth seems painful.

Medications: Rimadyl 75mg - 1/4 tab po bid. Trazodone 50mg - 1 tab po given today at 7:30am

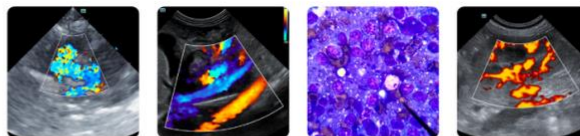
Abnormal PE/Chem/CBC/UA Results: 5/8/26: BP 102 systolic 4/25/26: CHEM/CBC = AST 14 all else wnl

**ULTRASONOGRAPHIC EXAMINATION OF THE HEART**

CANINE CARDIAC PARAMETERS	MR VMAX (m/s)	TR VMAX (m/s)	LA/AO (M-Mode)	LA/AO (Heart Base; Swe)	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	--	--	1.1	1.3	--	--	0.2
CANINE CARDIAC PARAMETERS	HR (BPM)	AV VMAX (m/s)	PV MAX (m/s)	BODY WEIGHT (lbs)	LAD LA MAX 4 Chamber	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				
PATIENT	--	1.50	.70	19.6	2.9	2.4	--

**Cardiac Presentation**

The echocardiogram in this patient demonstrated normal **left atrial** size based on 3 different LA measurement methods. Moderate filling of the left atrium was noted. The cranial and caudal **mitral** valve leaflets presented vegetative thickening consistent with endocardiosis. Doppler indicated moderate 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).



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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.

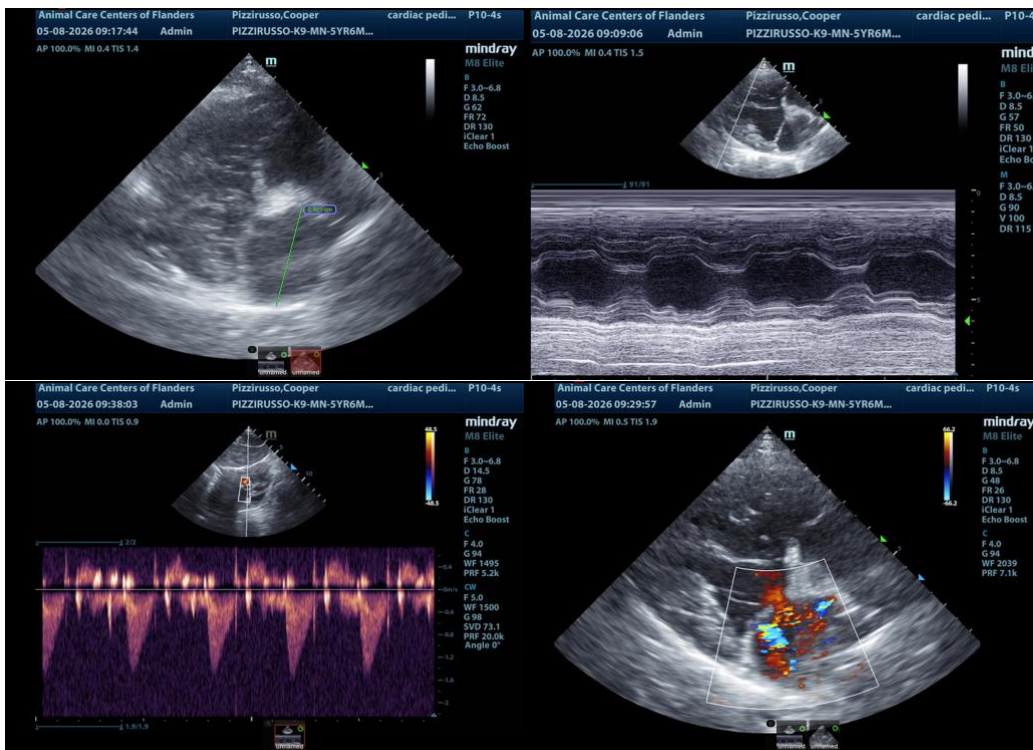
**ULTRASONOGRAPHIC FINDINGS**

- Stage B1 valvular disease

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

No contraindication to anesthetic procedure.

The heart is stable without clinical disease. No overt contraindication for anesthesia of brief to moderate duration. I suggest Torbutrol premed, Propofol induction, Isoflor maintenance or similar protocol if anesthesia is desired. Blood pressure recommended if not already performed and target white coat negative systolic pressure of < 160 mmHg. If higher than this ACE-inhibitor is suggested to reach this level. Recheck echocardiogram is recommended in 6 months, earlier if murmur grade increases or clinical signs initiate.





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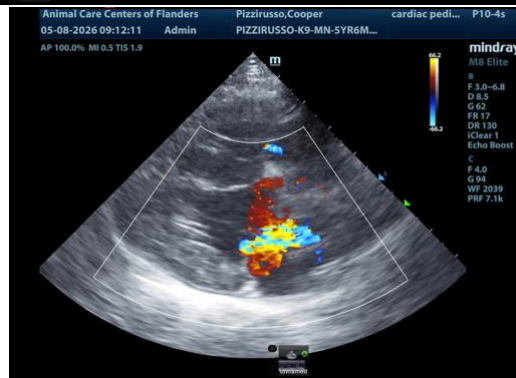
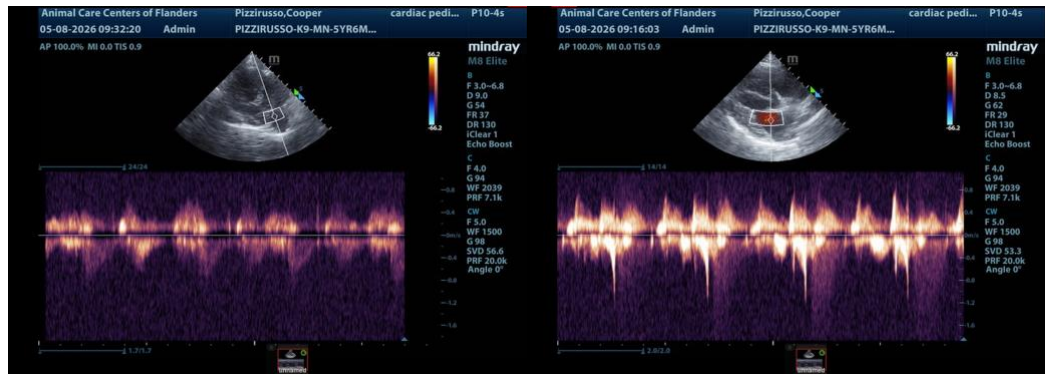
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**The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.**

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(CFM), Cert. IVUSS,  
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[info@SonoPath.com](mailto:info@SonoPath.com)