

PATIENT PRESENTING CLINICAL SIGNS

Timmy Laguerra
Grade V/VI heart murmur.
BUN 68, creatinine 2.8

SPECIES

Canine

BREED

Poodle

SEX

Neutered male

AGE

17 years

ULTRASONOGRAPHIC EXAMINATION OF THE HEART

The echocardiogram in this patient demonstrated enlarged **left atrial** size based on 3 different LA measurement methods. Chamber volumes and echogenicity were normal. The cranial and caudal **mitral** valve leaflets presented vegetative thickening consistent with endocardiosis. Prolapse of the anterior mitral valve leaflet was noted. Doppler indicated measurable insufficiency. Significant **left sided** volume overload was noted in this patient. 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. Periodic arrhythmia was noted in this patient.

INTERPRETED BY

Eric Lindquist, DMV
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IMAGING PERFORMED BY

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HOSPITAL NAME

Franklin Lakes AH

REFERRING VET

Dr. Pomerantz

INVOICE

42602

DATE

1/10/23

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	6.0	3.2	2.0	2.3	49	82	0.1
CANINE CARDIAC PARAMETERS	HR (BPM)	AV VMAX (m/s)	PV MAX (m/s)	BODY WEIGHT (kg)	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	150	1.3	0.89		3.88	3.34	



PATIENT

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ULTRASONOGRAPHIC FINDINGS

Significant left sided volume overload with mitral valve prolapse.

Advanced stage B2 to early C1 valvular disease with arrhythmia.

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INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

An EKG is indicated. Given the azotemia medical management options are minimal. I recommend continuation of the current ace inhibitor and Pimobendan at 0.3 mg/kg b.i.d. However, assessment of a renal sonogram would be ideal to assess for complicating factors such as UTI, infarcts or degenerative changes and to assess the ability to utilize diuretics which is necessary from a cardiac standpoint; however, it is a difficult balance between cardiac and renal issues.

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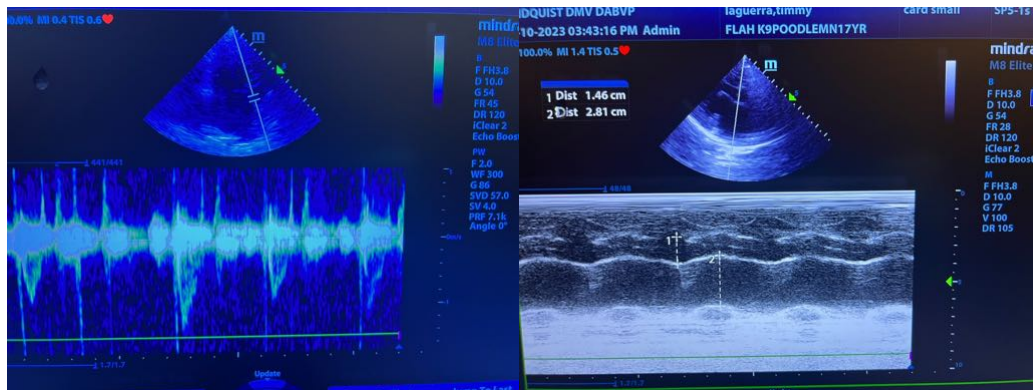
Neutered male

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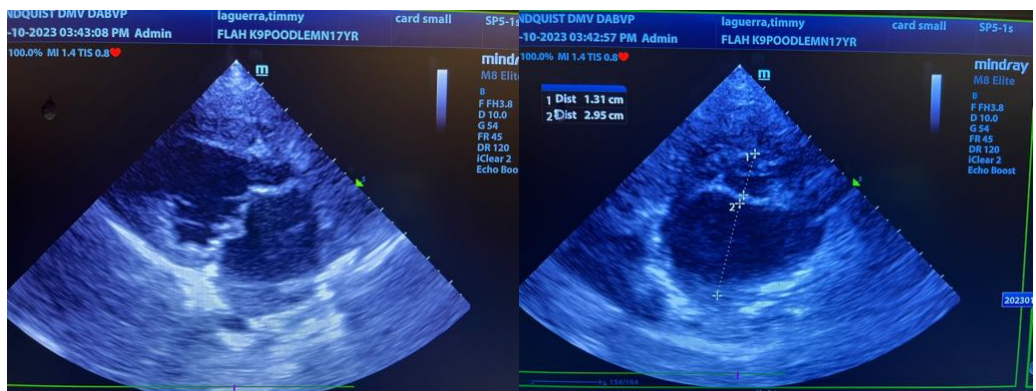
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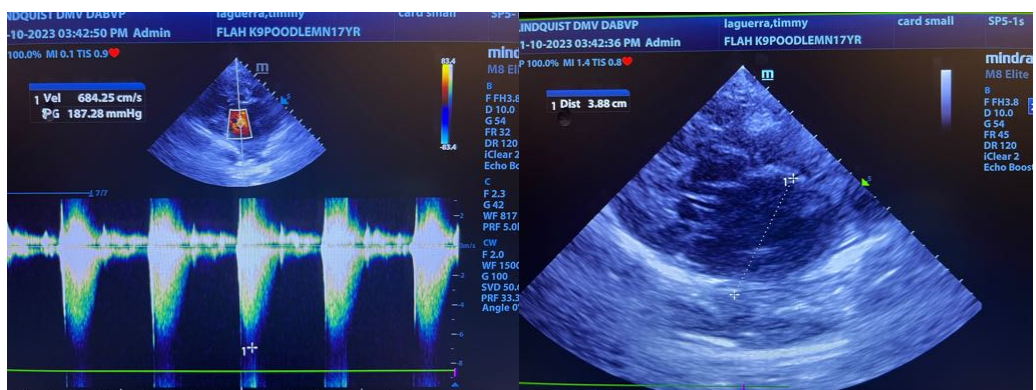
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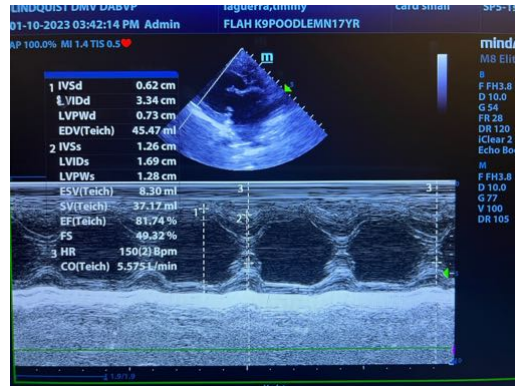
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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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