



PATIENT

Ruger Nason

SPECIES

Canine

BREED

Yorkshire Terrier

SEX

Neutered male

AGE

10 years

WEIGHT

9.54 lbs

INTERPRETED BY

Bradley Harris, DVM,
DACVECC, DACVIM
(cardiology)

IMAGING PERFORMED BY

Dr. Andrea Nason

HOSPITAL NAME

Caravan Vet

REFERRING VET

Dr. Nason

INVOICE

70257

DATE

1/19/26

PRESENTING CLINICAL SIGNS

Ruger has been acutely vomiting for the last 1-2 weeks. He has maintained a normal appetite and energy level. He's also been coughing more. He has Stage B2 mitral valve disease and is on pimobendan. He's on ursodiol and denamarin for liver/gallbladder support, apoquel for allergies, prozac for anxiety, and vitamin B12 for previous hypocalcemia.

Abnormal PE/Chem/CBC/UA Results: CBC, Chem, T4, UA, UPC pending Blood Pressure: 210 systolic

ULTRASONOGRAPHIC EXAMINATION OF THE HEART

The left atrium is normal in dimension. The left ventricle is normal in dimension, with normal systolic function. The right atrium and ventricle are normal in dimension, with normal systolic function. The anterior and posterior mitral valve leaflets are thickened and redundant consistent with myxomatous changes, and there is no significant prolapse. There is evidence of trivial mitral regurgitation. The tricuspid valve leaflets are appropriately thin with adequate apposition, intact chordae, no significant tricuspid regurgitation and no evidence of pulmonary hypertension. The left ventricular outflow tract demonstrated normal laminar flow and the visible aorta is unremarkable. The right ventricular outflow tract assessment revealed normal laminar flow, and appropriate diameter and distensibility. There is no pulmonic and no aortic valve insufficiency identified. There is no visible pericardial, pleural, or free peritoneal fluid documented. No evidence of hepatic venous congestion is noted. The cardiac chambers, pericardial and visible extra-cardiac regions were free of masses, spontaneous echo contrast, or thrombi.

CANINE CARDIAC PARAMETERS	Body Weight kg	HR BPM	LAD 4 ch Long	RAD 4 ch Long	La/Ao Heart Base	LVIDd	LVIDs
NORMAL PARAMETER		50-100			<1.6		
PATIENT	4.34 kg	130	2.38	NM	1.21	2.25	1.15
CANINE CARDIAC PARAMETERS	FS	EPSS	PV V MAX (m/s)	AV V Max (m/sec)	MR Vmax	TR Vmax	RPA distensibility (normal >30%)
NORMAL PARAMETER	28-40	<0.6	0.7-1.6	0.7-1.7	4.5-5.5	< 2.7	
PATIENT	49	0.2	1.0	0.6	5.5	NM	36

ECG:

There is a six-lead ECG with minimal baseline artifact is available for review. The underlying rhythm is regular at an average rate of 130bpm. The rhythm appears to be sinus in origin (PQ 80ms) with narrow QRS complexes (<70ms), and a normal mean electrical axis. There is no atrial or ventricular ectopy and no conduction delay or block identified. This is most consistent with a normal sinus rhythm.



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ULTRASONOGRAPHIC FINDINGS

These findings are consistent with degenerative/myxomatous mitral valve disease with minimal to mild hemodynamic effects consistent with ACVIM Stage B1 disease. It is unlikely that any current morbidity is of cardiac origin.

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Given these findings, no changes to cardiac therapy are recommended. As it is not possible to determine if the normal chamber measurements today are due to the Vetmedin, or in spite of it, continued Vetmedin will be recommended. If no other cause of the gastrointestinal signs is identified, then Vetmedin could be considered as the cause, as this is an occasional side effect, but less likely with chronic use. There are no cardiac contraindications to anesthesia, fluid therapy, vasopressor therapy, or corticosteroids as indicated for further assessment and treatment. If not already performed, baseline thoracic radiographs and blood pressure are recommended. A recheck echocardiogram is recommended in 6 months.

Anesthesia considerations:

If anesthesia is necessary, alpha-2 agonists, ketamine, high dose acepromazine, and Telazol should be avoided. Fluid therapy during anesthesia should be considered at a conservative rate (e.g., 5 ml/kg/hour) if possible.

Diet:

A high-quality food from Hills, Royal Canin, Science Diet, Eukanuba, Iams, or Purina that is highly palatable with adequate protein and calories for maintaining optimal body condition is reasonable.

Activity:

No special considerations are necessary.

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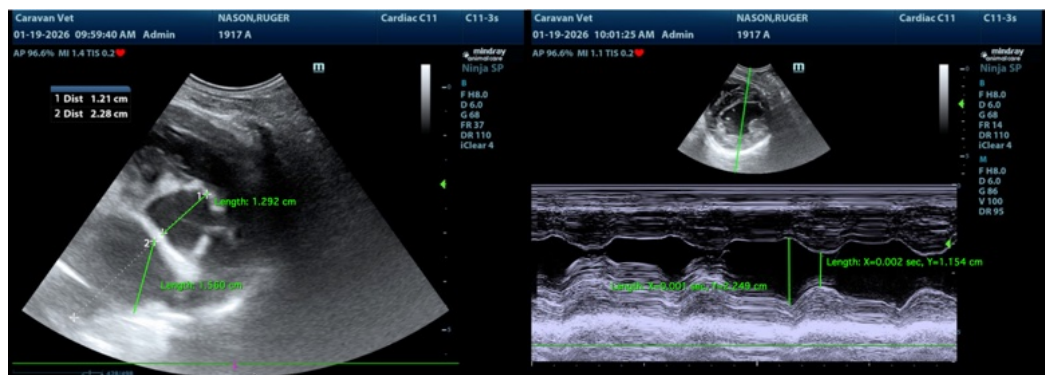
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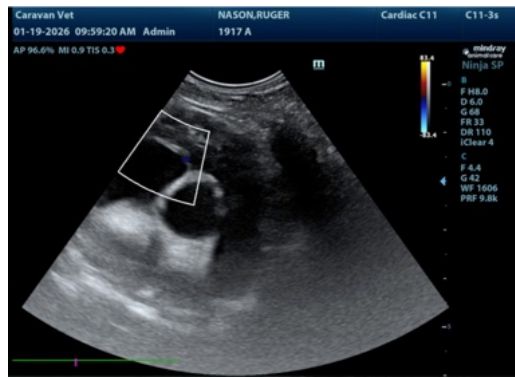
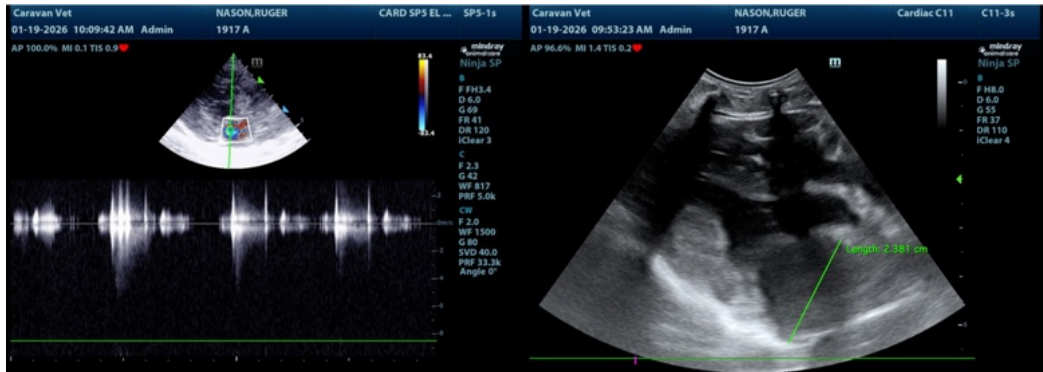
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.

Bradley Harris, DVM, DACVECC, DACVIM (cardiology)

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