



PATIENT

Kendall Wells

SPECIES

Canine

BREED

Yorkshire Terrier

SEX

Spayed Female

AGE

10 Years

WEIGHT

2.4 kg

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Jolee Stegemoller,
DVM

HOSPITAL NAME

North Idaho AH

REFERRING VET

Talitha Neher, DVM

INVOICE

17711

DATE

10/14/22

PRESENTING CLINICAL SIGNS

History: New murmur found on ultrasound exam. Historical gastrointestinal signs - has had complete work up. Has atopic dermatitis. Coughing but also has tracheal collapse.

Abnormal PE/Chem/CBC/UA Results: Murmur grade 1/6. BCS 3/9. Bloodwork is pending.

ULTRASONOGRAPHIC EXAMINATION OF THE HEART

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	<1.3	28-40	40-100	<0.6
PATIENT	--	--	1.0	1.2	50	80	NM
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				
PATIENT	--	--	.50	--	2.1	1.75	--

Cardiac Presentation

The echocardiogram in this patient demonstrated normal **left atrial** size based on 3 different LA measurement methods. The mitral valve was thickened; however, insufficiency was not overtly detected on color flow assessment, owing to poor acoustic penetration. 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.

ULTRASONOGRAPHIC FINDINGS

- Stage B-1 valvular disease

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS



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The murmur is presumed to be mitral. The changes were minor. No evidence of volume overload. The cough is noncardiogenic in this patient. Recheck sonogram in 6-12 months or earlier if murmur grade increases.

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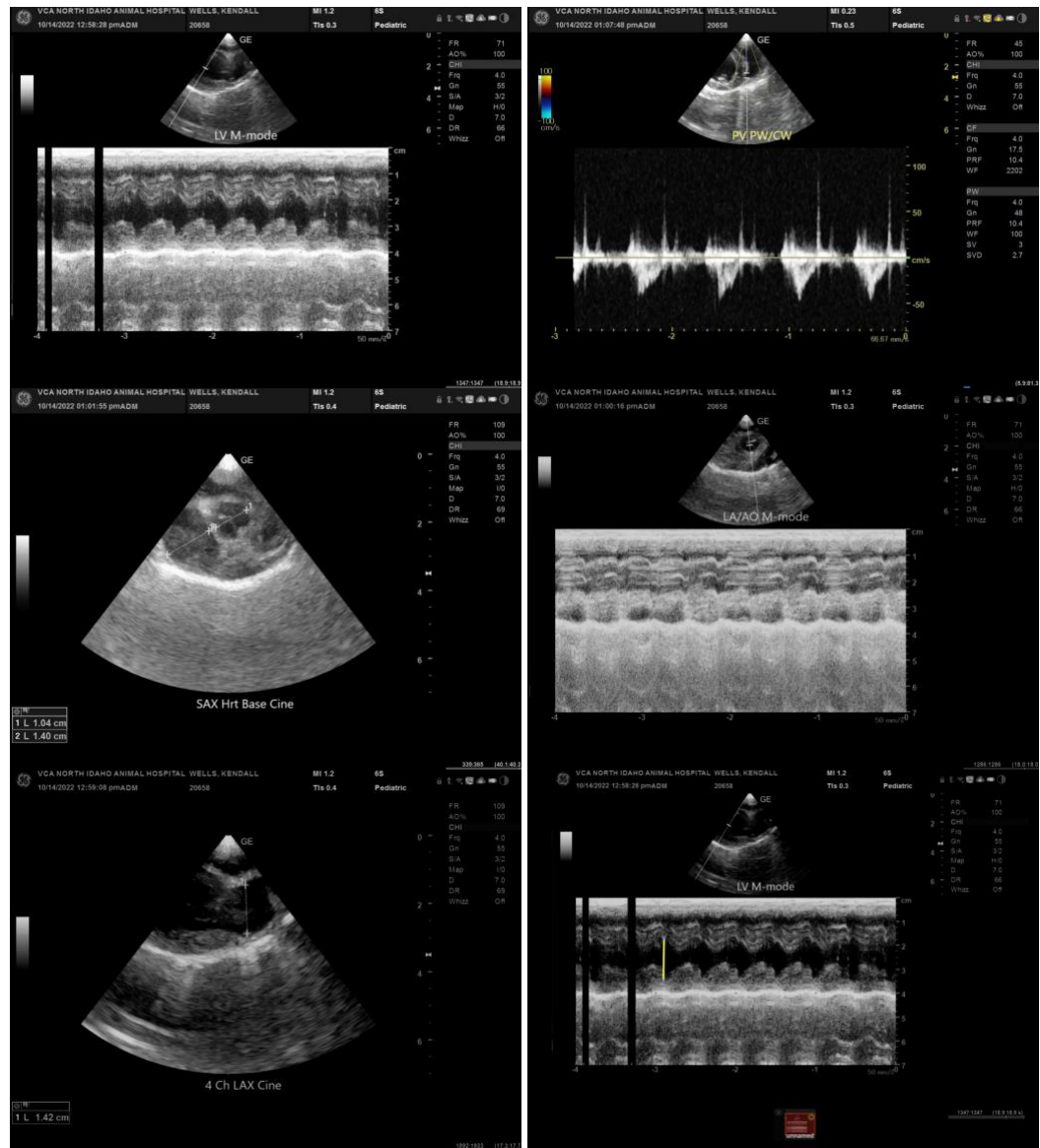
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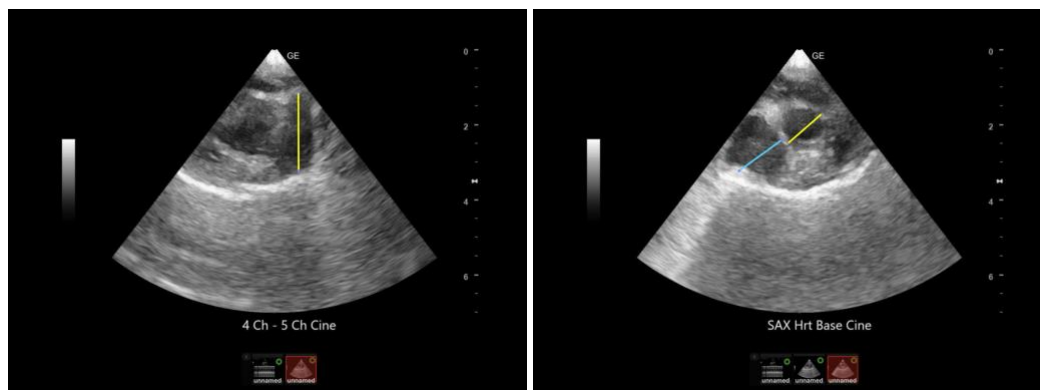
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The information and recommendations provided are based on the images presented by the referring veterinarian. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

AGE

10 Years

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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