



PATIENT PRESENTING CLINICAL SIGNS

Chico Wahl History: Cough, heart murmur. No current meds.
CBC/Chem: non-remarkable.

SPECIES ULTRASONOGRAPHIC EXAMINATION OF THE HEART

Canine

BREED

Chihuahua

SEX

Neutered male

AGE

9 years

WEIGHT

22.2 lbs

INTERPRETED BY

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

IMAGING PERFORMED BY

Kelly Vazquez, CVT

HOSPITAL NAME

North Jersey AH

REFERRING VET

Dr. Shaw

INVOICE

30371

DATE

5/13/22

The echocardiogram in this patient demonstrated normal **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. 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** was mildly enlarged in this patient with a 1:1 ratio with the left atrium. This is likely owing to concurrent increased pulmonary pressures. **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). A hypoechoic 3.3 cm heart base mass was noted. The extracardiac space revealed a parenchymal mass that measured 2.9 x 4.8 cm and was undifferentiated.

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	2.0	1.5	1.1	1.2	31	61	0.1
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				
PATIENT	109	1.63	2.0	22.2 lbs	2.15	2.29	

ULTRASONOGRAPHIC FINDINGS

Extracardiac thoracic neoplasia.

Stage B1 valvular disease with minor right-sided cardiac enlargement owing to increased pulmonary pressures.



PATIENT

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Chico Wahl

Both masses appeared to move separately from the heart. Ultrasound-guided FNA and CT evaluation would be warranted for further definition.

SPECIES

The cough is non-cardiogenic in this patient and likely owing to the primary respiratory/pulmonary disease. Sarcoma, metastatic disease, lung carcinoma, or round cell neoplasia are all possible depending upon the cytology results.

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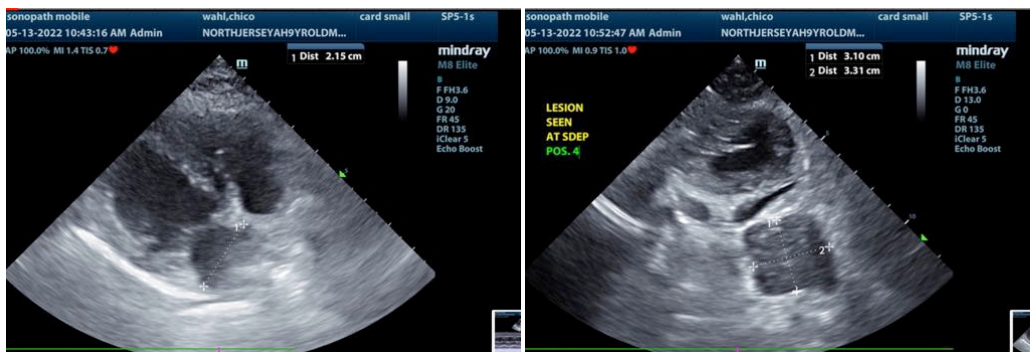
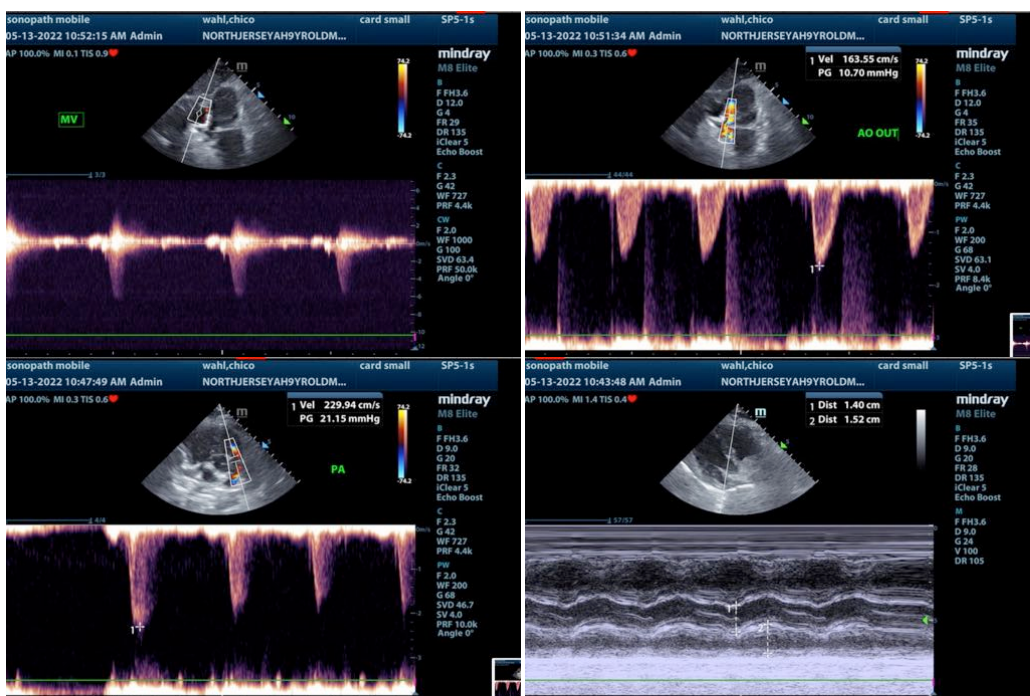
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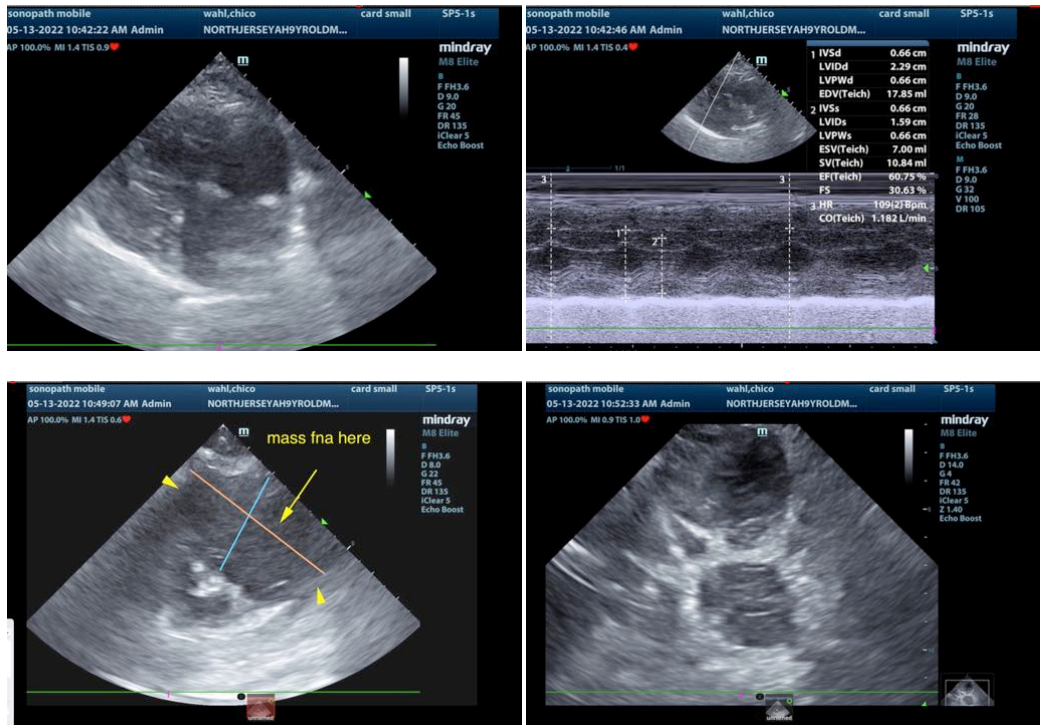
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.

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

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