



**PATIENT**

Nacho Wagner

**PRESENTING CLINICAL SIGNS**

History: Radiopacity on lat chest rad

**SPECIES**

Canine

**BREED**

Mix

**SEX**

Neutered male

**AGE**

10 ½ years

**WEIGHT**

34.8 lbs

**INTERPRETED BY**

Eric Lindquist, DMV  
DABVP, Cert. IVUSS

**IMAGING PERFORMED BY**

Jessica Miller, RDMS

**HOSPITAL NAME**

Animal Care Center of  
Flanders

**REFERRING VET**

Dr. Hallihan

**INVOICE**

42193

**DATE**

1/17/23

**ULTRASONOGRAPHIC EXAMINATION OF THE HEART**

The echocardiogram in this patient demonstrated normal **left atrial** size based on 3 separate methods of LA evaluation. **Mitral** valve insufficiency was noted and was centralized measuring 5.0 m/sec. The **left ventricle** presented normal 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. Minor **tricuspid** insufficiency was noted at 1.96 m/sec. The **right ventricle** was of normal size (1/3 diameter of LV), chordae structure, myocardial echogenicity and thickness. **Pulmonary outflow** tract assessment revealed normal valve structure, laminar flow, and diameter (approx. 1:1 pa/ao ratio). A heart base mass was noted in this patient and measured 3.9 cm. The mass superimposes on the heart, yet appears separate from the heart and does not appear to be affecting the contractility. The mass appears to extend into the caudal thorax.

CANINE CARDIAC PARAMETERS	MR VMAX (m/s)	TR VMAX (m/s)	LA/AO (Boon method)	LA/AO (Heart Base;)	FS (%)	EF (%)	EPSS (cm)
NORMAL PARAMETER	4.5-5.5	<2.7	1.3	<1.6	28-40	40-100	<0.6
PATIENT	5.0	1.96	1.1		32	62	0.2
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	BELOW	BELOW	BELOW	BELOW
PATIENT		1.1		34.8 lbs	3.33	3.14	

**ULTRASONOGRAPHIC FINDINGS**

Heart base mass, possibly deriving from adjacent longer cartilage.

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

Chest CT would be ideal for further definition and extent of the mass. Chemodectoma, fibrous tissue tumor or carcinoma are all possible. Hemangiosarcoma is less likely. There was no evidence of pericardial effusion. Blood pressure measurements are warranted. Repeat abdominal sonogram is recommended. Ultrasound-guided sampling of accessible pathology either abdominal or thoracic.



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However, this area is very difficult to access.

Nacho Wagner

**ABOUT SONOPATH CT SERVICES:**

**SPECIES**

Canine

SonoPath CT Services are offered at the SonoPath Imaging and Veterinary Education Center, 141 Main St (rt 206), Andover, New Jersey, a 20-minute drive west on route 80/206 North from the route 80/287 interchange/Parsippany, New Jersey. More information can be found at <https://sonopath.com/services/sonopath-ct-services>

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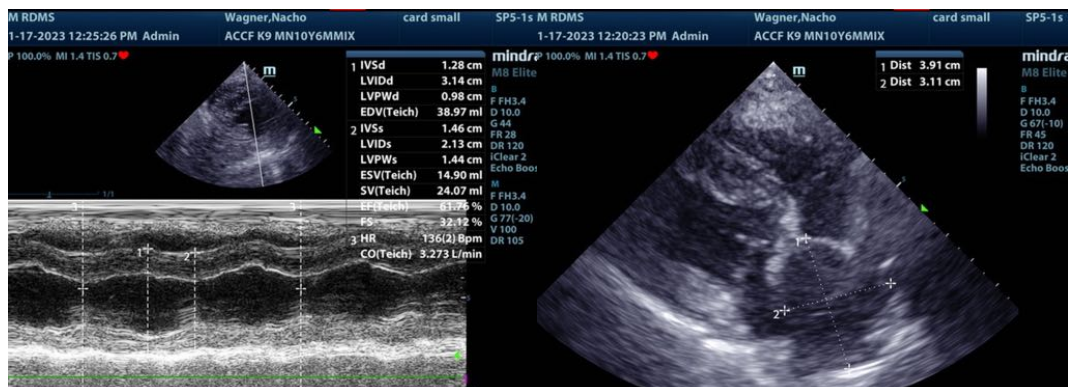
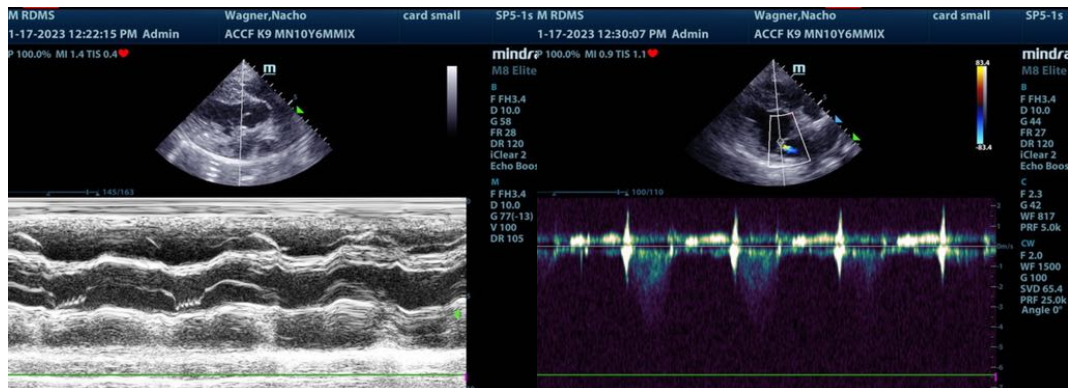
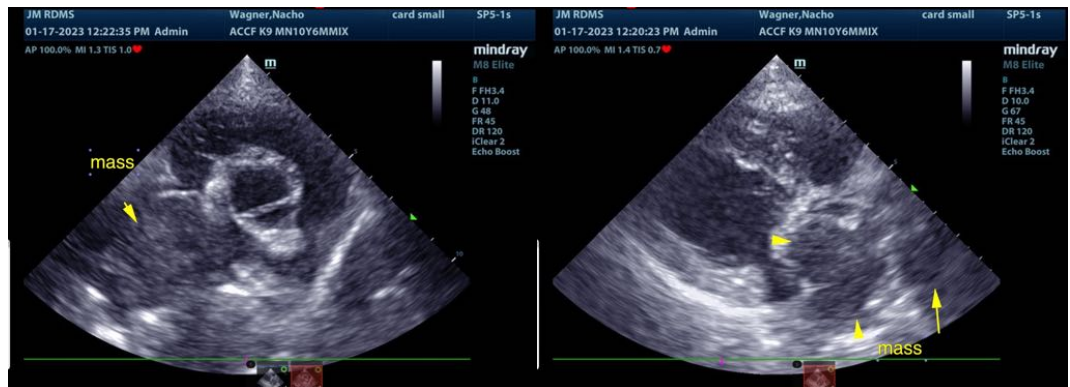
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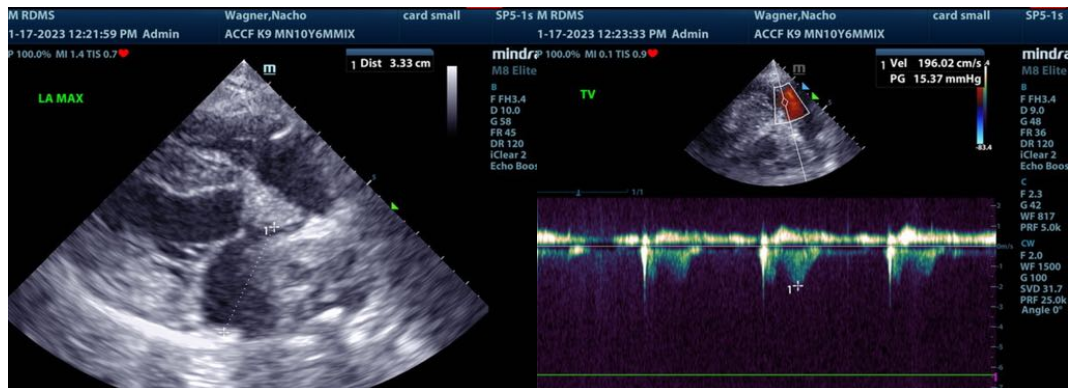
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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  
info@SonoPath.com