

PATIENT

Dusty Vandenbos

SPECIES

Canine

BREED

Mix

SEX

Neutered male

AGE

6 years

WEIGHT

57.7 lbs

PRESENTING CLINICAL SIGNS

History: Upon pre-op xrays for mast cell tumor removal a focal bulge along L cranial margin of cardiac silhouette is w/in the expected location of L auricle. No c/s at home.

Abnormal PE/Chem/CBC/UA Results: 8/2/23 WNL

ULTRASONOGRAPHIC EXAMINATION OF THE HEART

The echocardiogram in this patient demonstrated normal **left atrial** size based on 3 separate methods of LA evaluation. The cranial and caudal **mitral** valve leaflets presented normal linear structure, extension in systole, and union in diastole with normal kinesis. 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. **Tricuspid** valvular assessment demonstrated adequate linear morphology and kinesis. 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). The area of the right auricle revealed a 4.4 x 2.6 cm echogenic heart base mass impinging upon the aorta and right auricle. This is most consistent with aortic body tumor. There is a potential for hemangiosarcoma or fibrosarcoma. The hepatic veins were not dilated.

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Jessica Miller, RDMS

HOSPITAL NAME

Whippany VH

REFERRING VET

Dr. Cordero

| 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 | Up to 1.6 | 28-40 | 40-100 | <0.6 |
| PATIENT | | | NM | 1.16 | 53 | 86 | 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 | BELOW | BELOW | BELOW | BELOW |
| PATIENT | 151 | 1.5 | 1.06 | 57.7 | 2.87 | 2.62 | |

INVOICE

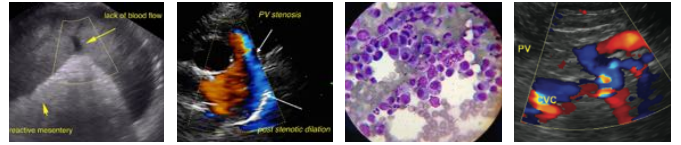
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DATE

8/9/23

ULTRASONOGRAPHIC FINDINGS

Heart base mass. Aortic body tumor or less likely hemangiosarcoma, fibrosarcoma or other connective tissue tumor is possible. Not causing any clinical issues at this time.



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INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Blood pressure measurements are warranted to assess for associated hypertension. Typically these tumors are slow growing and eventually obstructive. Occasionally they can have pericardial effusion associated with them, yet this is not the case at this time. However, associated hypertension can be related to these type of tumors owing to neuroendocrine involvement. Recheck echocardiogram in 3-6 months to assess for any growth.

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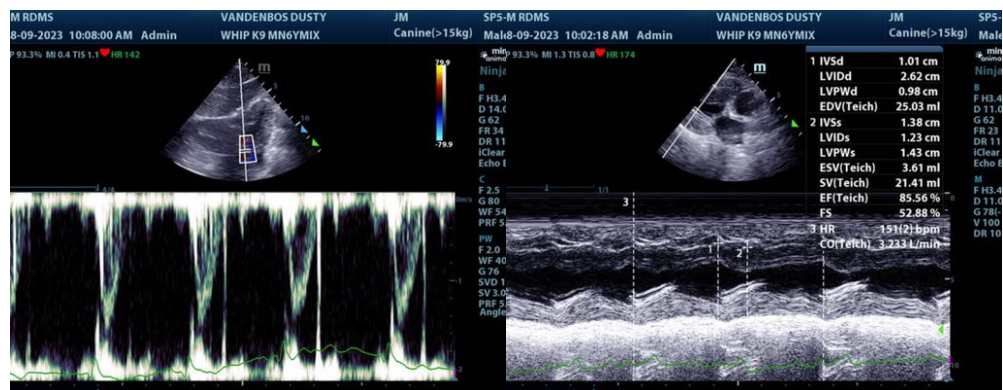
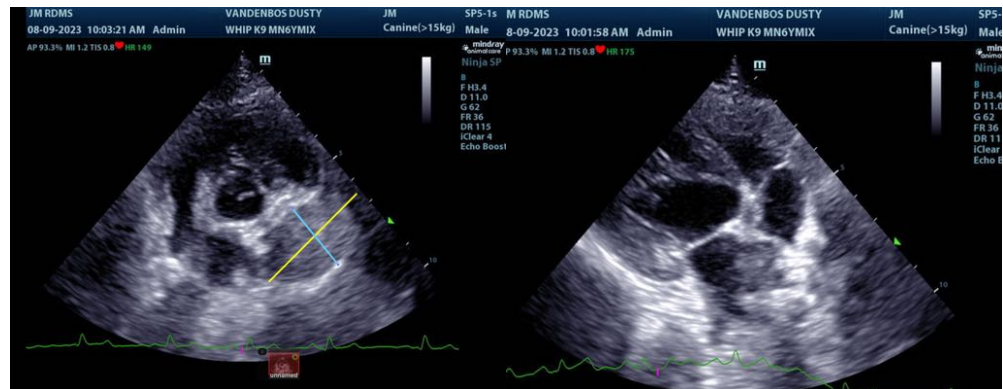
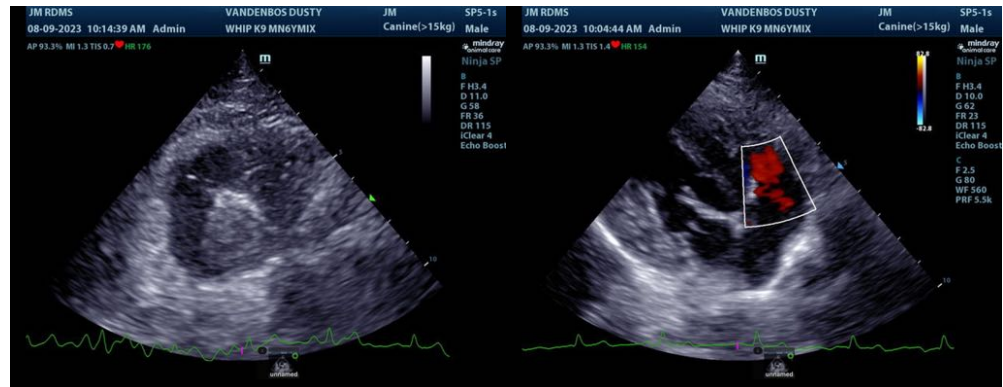
Dr. Cordero

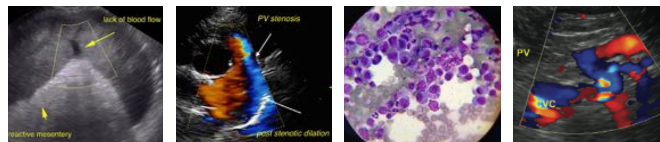
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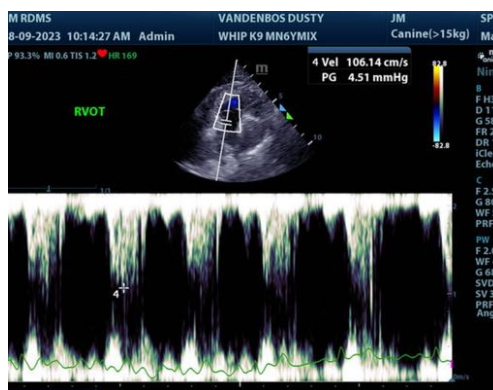
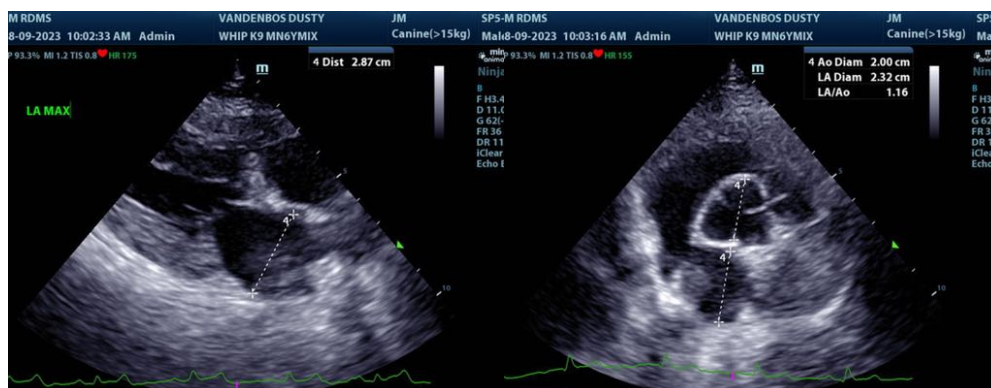
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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