

PATIENT

Vito Meli

SPECIES

Canine

BREED

Boxer

SEX

Neutered male

AGE

10 years

PRESENTING CLINICAL SIGNS

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 heart base revealed a 6.2 x 5.5 cm echogenic, expansive, irregular mass. This is most consistent with aortic body tumor. However, fibrosarcoma is possible. There was no pericardial or pleural effusion noted.

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Eric Lindquist, DMV
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HOSPITAL NAME

Franklin Lakes AH

REFERRING VET

Dr. Pomerantz

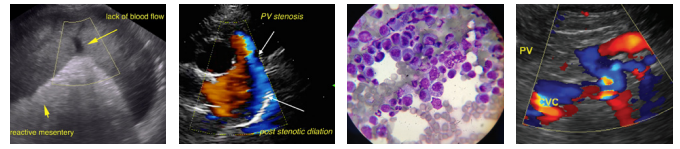
INVOICE

43631

DATE

3/30/23

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			1.0	1.0	38	69	0.1
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	BELOW	BELOW	BELOW	BELOW
PATIENT	171	2.06	1.35		3.2	3.39	



PATIENT **ULTRASONOGRAPHIC FINDINGS**

Vito Meli Heart base tumor.

SPECIES **INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

Canine Fibrosarcoma and chemodectoma are likely in this patient. Serial blood pressure measurements are warranted as well as Holter monitor given the patient's history. Arrhythmogenic activity owing to Boxer cardiomyopathy or the heart base tumor is possible. Hypertension is also possible deriving from the heart base tumor. Blood pressure measurements and Holter monitor are warranted with medical management. CT of the chest would be ideal to assess expansion of the mass as the entire mass was not visualized owing to lack of acoustic window.

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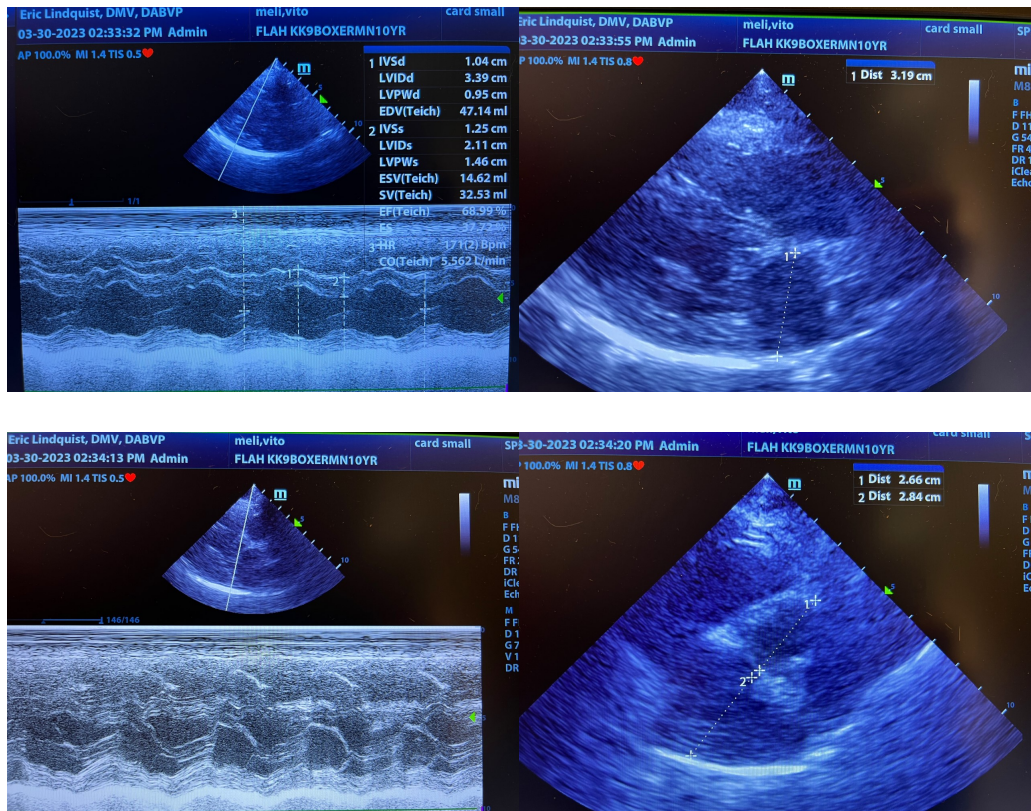
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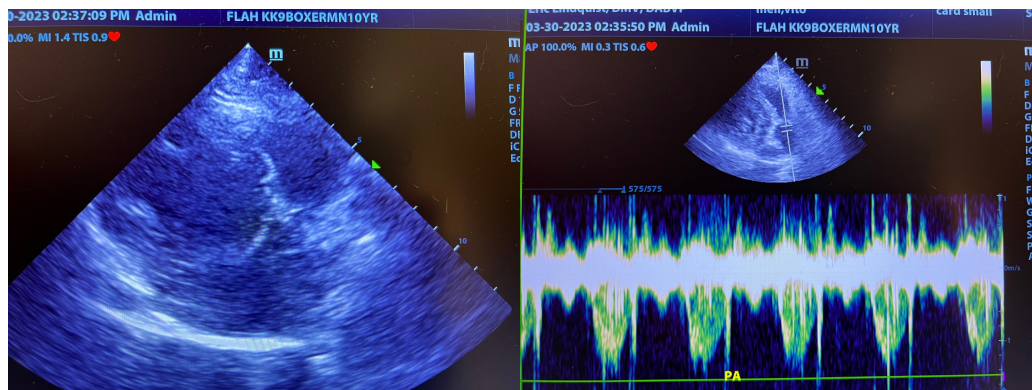
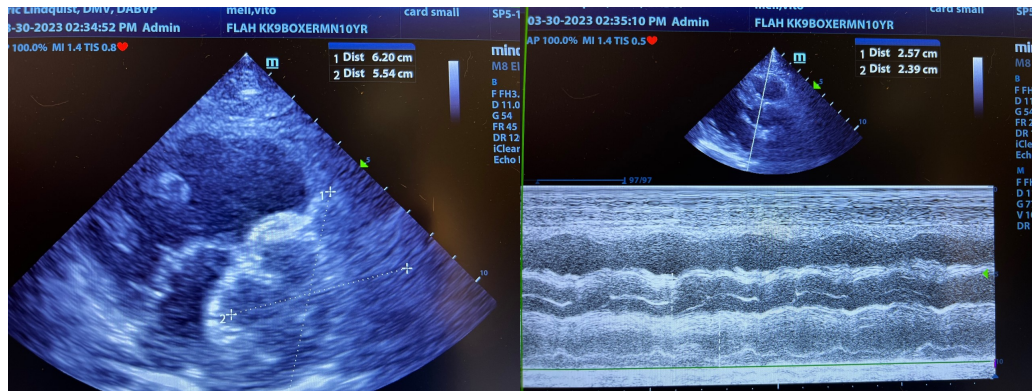
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.

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