



## PATIENT

Whisky Phelps

## SPECIES

Canine

## BREED

Boxer

## SEX

Intact Male

## AGE

6 Months

## WEIGHT

53.8 Pounds

## PRESENTING CLINICAL SIGNS

History: Clinical Exam Findings: murmur: open Heart Rate and Respiratory Rates 120

## 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	--	1.37	1.11	1.09	35	90	0.33
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	--	2.01	1.81	--	3.74	3.2	--

## Cardiac Presentation

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. Mild increased **LVOT velocity** was noted, this is a normal variant for this breed. The **right atrium** and auricle revealed normal size, structure and content. No evidence of masses was noted. Trivial **tricuspid** insufficiency was noted, not clinically significant, essentially a normal variant. 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). No visible **pericardial** or free pleura fluid was noted. The cranial **mediastinum and pericardial and extra-cardiac regions** were free of masses in the visible window. EA ratio was normal.

## ULTRASONOGRAPHIC FINDINGS

- Normal echocardiogram with minor idiopathic increased LVOT velocity, essentially normal breed variant

## INTERPRETED BY

Eric Lindquist, DMV, DABVP, Cert. IVUSS

## IMAGING PERFORMED BY

Jenna Walsh, CVT

## HOSPITAL NAME

The Ark Veterinary Clinic

## REFERRING VET

Dr. Mercer

## DATE

1/13/23

## Invoice

20550



**PATIENT**

- Trivial tricuspid insufficiency, not clinically significant.

Whisky Phelps

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

No contraindications to anesthetic procedure. Recheck echo in 1 year if murmur grade increases.

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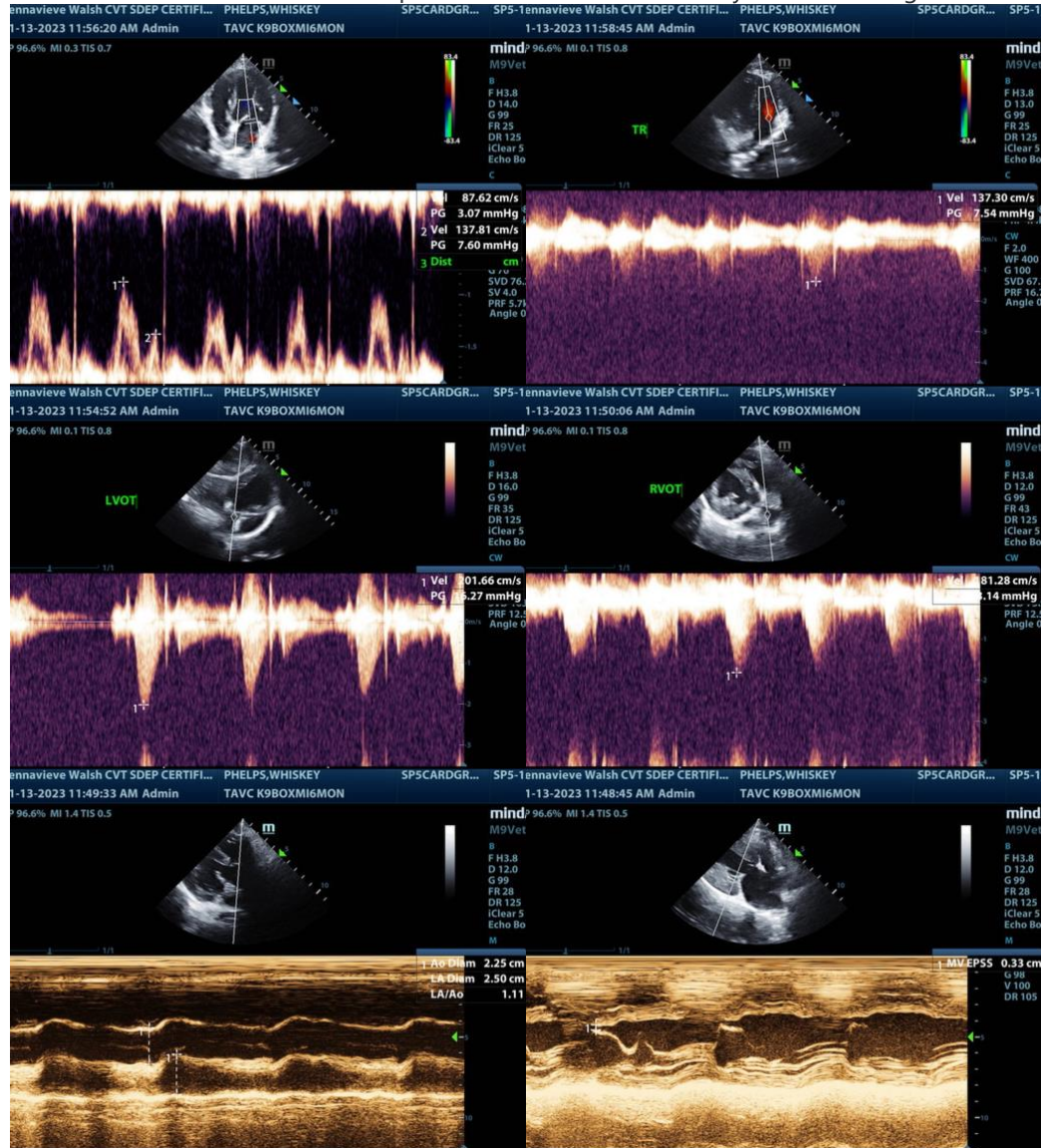
Dr. Mercer

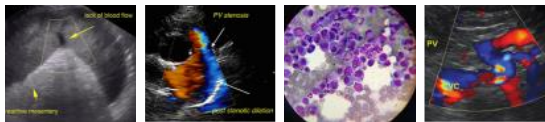
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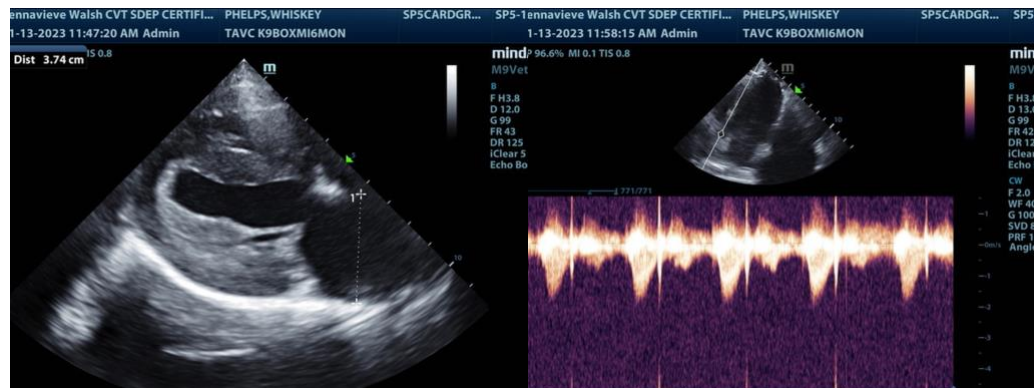
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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

Eric.Lindquist@SonoPath.com

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