

**PATIENT PRESENTING CLINICAL SIGNS**

**PATIENT** Kobe Brown  
**SPECIES** Canine  
**BREED** Yorkshire Terrier  
**SEX** Male  
**AGE** 13 years  
**WEIGHT** 13.6 lbs

No issues at home. Previous Echo for a cardiac murmur in 2018 (Compensated mitral insufficiency. No left atrial enlargement. Stage B1 valvular disease.) No current symptoms at home. Dental under anesthesia needed.  
 Abnormal PE/Chem/CBC/UA Results: PE: Tape worm segments on rear. Stage III Dental disease. Sclerosis of lenses normal for age. Cardiac murmur (ejection, left heart base, 2/6, systolic). No current labs.

**ULTRASONOGRAPHIC EXAMINATION OF THE HEART**

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** and auricle revealed normal size, structure and content. No evidence of masses was noted or chamber overload. **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). No visible **pericardial** or free pleura fluid was noted. No echographically detectable evidence of infiltrative disease was visible. The cranial **mediastinum** and **pericardial regions** were free of masses in the visible window.

**INTERPRETED BY**

Eric Lindquist, DMV  
 DABVP, Cert. IVUSS

**IMAGING PERFORMED BY**

Dr. Anderson

**HOSPITAL NAME**

Elizabeth AH

**REFERRING VET**

Dr. Anderson

**INVOICE**

95539

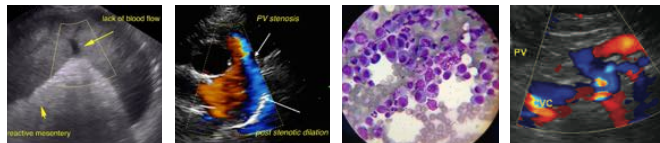
**DATE**

1/25/22

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	<1.6	28-40	40-100	<0.6
PATIENT	5.04		1.0	1.23	39	71	NM
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		1.3	0.75	13.6 lbs	2.5		

**ULTRASONOGRAPHIC FINDINGS**

Stage B1 valvular disease.



**PATIENT**

Kobe Brown

**SPECIES**

Canine

**BREED**

Yorkshire Terrier

**SEX**

Male

**AGE**

13 years

**WEIGHT**

13.6 lbs

**INTERPRETED BY**

Eric Lindquist, DMV  
DABVP, Cert. IVUS

**IMAGING PERFORMED BY**

Dr. Anderson

**HOSPITAL NAME**

Elizabeth AH

**REFERRING VET**

Dr. Anderson

**INVOICE**

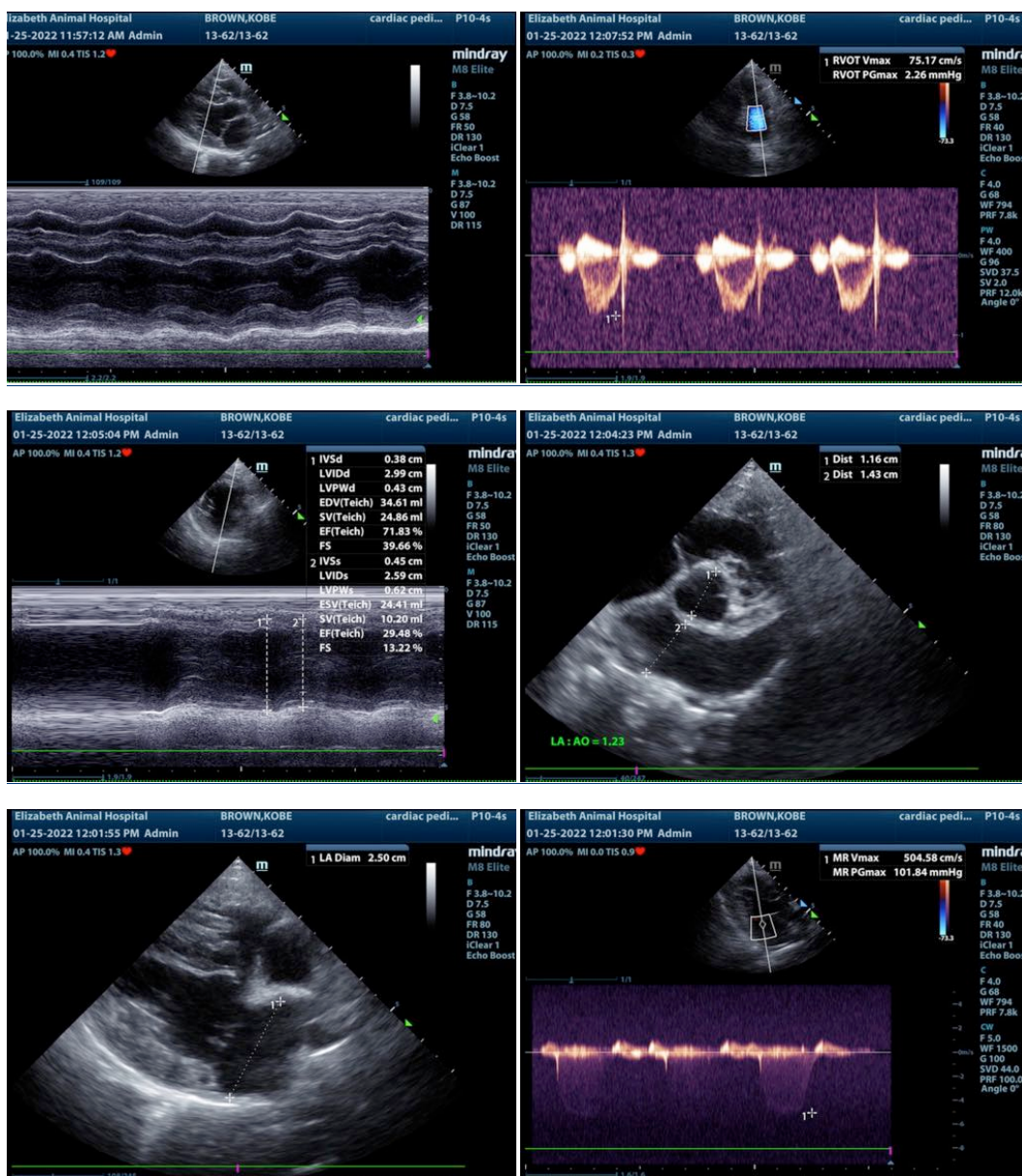
95539

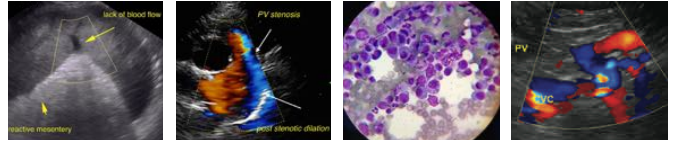
**DATE**

1/25/22

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

B1: The heart is stable without clinical disease. No overt contraindication for anesthesia of brief to moderate duration. I suggest Torbutrol premed, Propofol induction, Isoflurane maintenance or similar protocol if anesthesia is desired. Blood pressure recommended if not already performed and target white coat negative systolic pressure of < 160 mmHg. If higher than this ACE-inhibitor is suggested to reach this level. Recheck echocardiogram is recommended in 6 months, earlier if murmur grade increases or clinical signs initiate.





**PATIENT**

Kobe Brown

**SPECIES**

Canine

**BREED**

Yorkshire Terrier

**SEX**

Male

**AGE**

13 years

**WEIGHT**

13.6 lbs

**INTERPRETED BY**

Eric Lindquist, DMV  
DABVP, Cert. IVUSS

**IMAGING  
PERFORMED BY**

Dr. Anderson

**HOSPITAL NAME**

Elizabeth AH

**REFERRING VET**

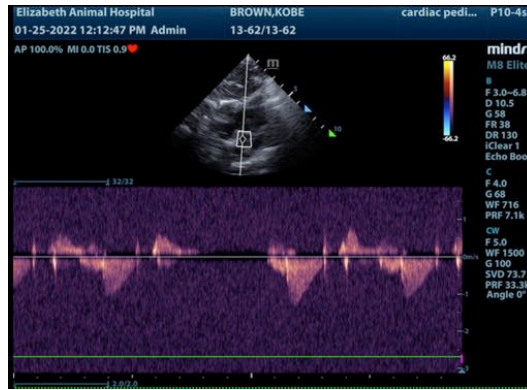
Dr. Anderson

**INVOICE**

95539

**DATE**

1/25/22



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