



**PATIENT PRESENTING CLINICAL SIGNS**

Buddy Lynch New heart murmur, pre-screen for dental/anesthesia

**SPECIES BREED SEX AGE WEIGHT INTERPRETED BY**  
**ULTRASONOGRAPHIC EXAMINATION OF THE HEART**

Canine

Shih Tzu Mix

Neutered male

10 years

17 lbs

Eric Lindquist, DMV  
DABVP, Cert. IVUSS

Dr. Petrone

Long Branch AH

Dr. Petrone

96286

2/23/22

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). 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.

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	6.0		1.15	1.4	35		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			1.1	17 lbs	3.96	2.5	

**ULTRASONOGRAPHIC FINDINGS**

Compensated mitral insufficiency.

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

The patient is at minimal anesthetic risk. Torbutrol premed, Propofol induction, and Isoflurane maintenance is recommended. I am assuming that stage B2 valvular disease was diagnosed prior to the initiation of Pimobendan. The LA max is at the upper limits of normal for this breed, the LA:AO heart



**PATIENT** base and June Boon are normal.

Buddy Lynch

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**IMAGING PERFORMED BY**

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**HOSPITAL NAME**

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**REFERRING VET**

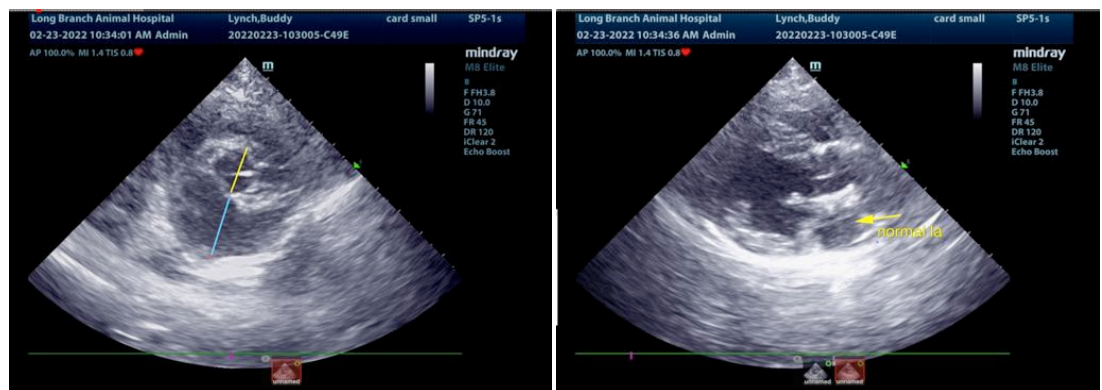
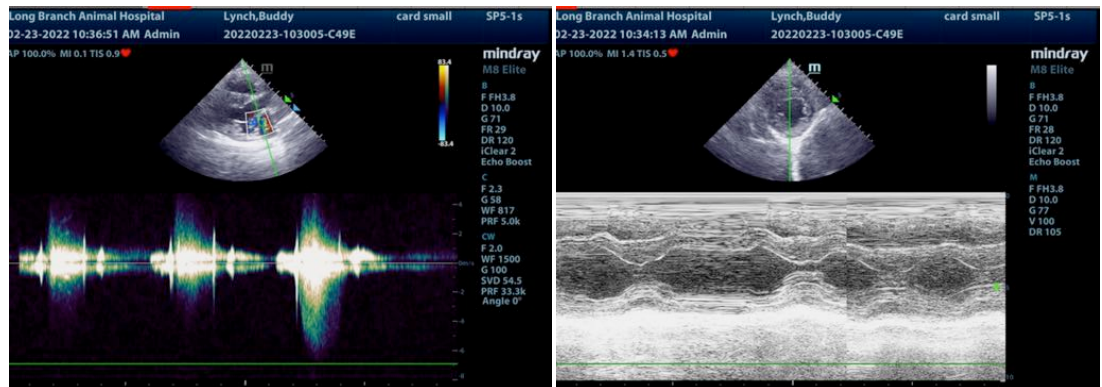
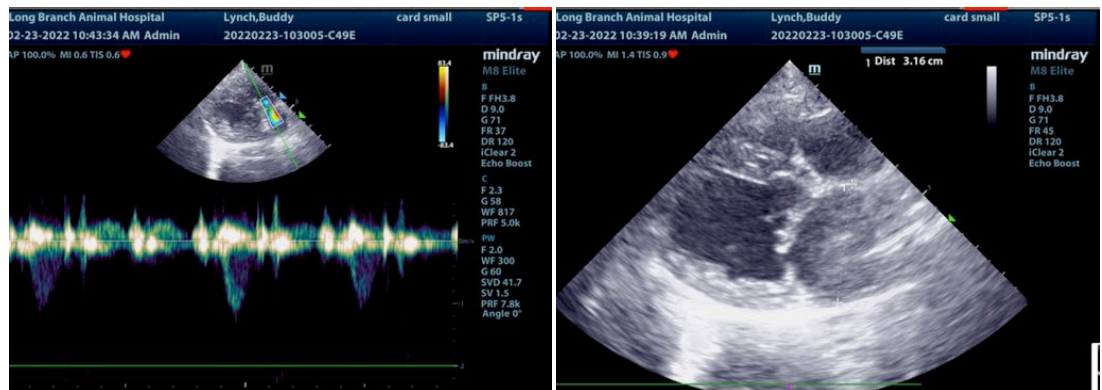
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.



**PATIENT**

Buddy Lynch

**Eric Lindquist**, DMV, DABVP, Cert. IVUSS, CEO of SonoPath.com  
info@SonoPath.com

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