



PATIENT PRESENTING CLINICAL SIGNS

Jessie Lucas

Jessie presented for a cardiac diagnostic work-up to recheck her status with regard to her mitral valvular disease. The intensity of her cardiac murmur has increased from a 3/6 to 4/6, but she has no signs of congestive heart failure. She was given 3.4mg butorphanol IV to lightly sedate for the cardiac ultrasound today, and her BP was found to be normal, 139/114 (121) mmHg systolic/ diastolic (MAP).
Abnormal PE/Chem/CBC/UA Results: Elevated AlkP (1006 in October 2021), Anaplasma positive on 4Dx test on 2/14/22 (neg for heartworm, Lyme and Ehrlichia)

SPECIES

Canine

BREED

Beagle

SEX

Spayed Female

AGE

9 Years 10 Months

WEIGHT

37.1 Pounds

INTERPRETED BY

Eric Lindquist, DMV

DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Dr. Alex McFeely

HOSPITAL NAME

Straley Vet Associates

REFERRING VET

Dr. Alex McFeely

INVOICE

36138

DATE

3/13/22

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	<1.6	28-40	40-100	<0.6
PATIENT			1.3	1.3	40	--	NM
CANINE CARDIAC PARAMETERS	HR (BPM)	AV VMAX (m/s)	PV VMAX (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	--	--	--		3.4	3.5	

Cardiac Presentation

The echocardiogram in this patient demonstrated normal **left atrial** size based on 3 different LA measurement methods. Chamber volumes and echogenicity were normal. The **mitral valve** was mildly thickened in this patient, likely the source of murmur, if murmur is present. 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.

ULTRASONOGRAPHIC FINDINGS

- Vegetative mitral valve, compensated, Stage B1 valvular disease
- Normal structure and volume



PATIENT

Jessie Lucas

SPECIES

Canine

BREED

Beagle

SEX

Spayed Female

AGE

9 Years 10 Months

WEIGHT

37.1 Pounds

INTERPRETED BY

Eric Lindquist, DMV

DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Dr. Alex McFeely

HOSPITAL NAME

Straley Vet Associates

REFERRING VET

Dr. Alex McFeely

INVOICE

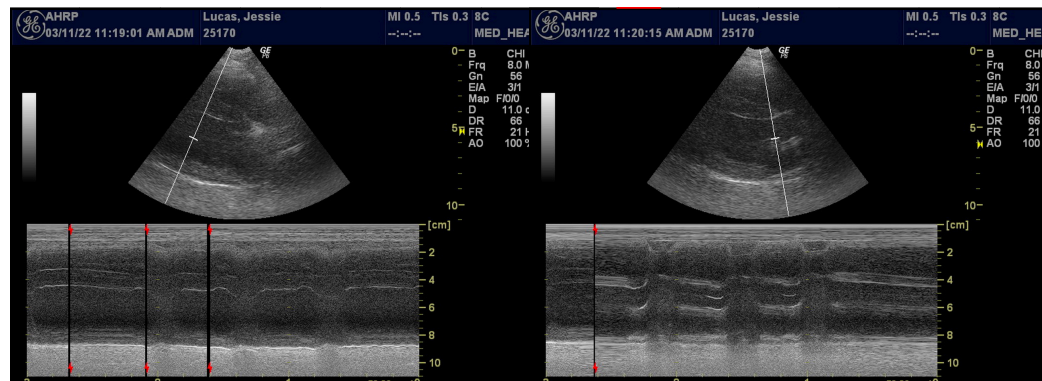
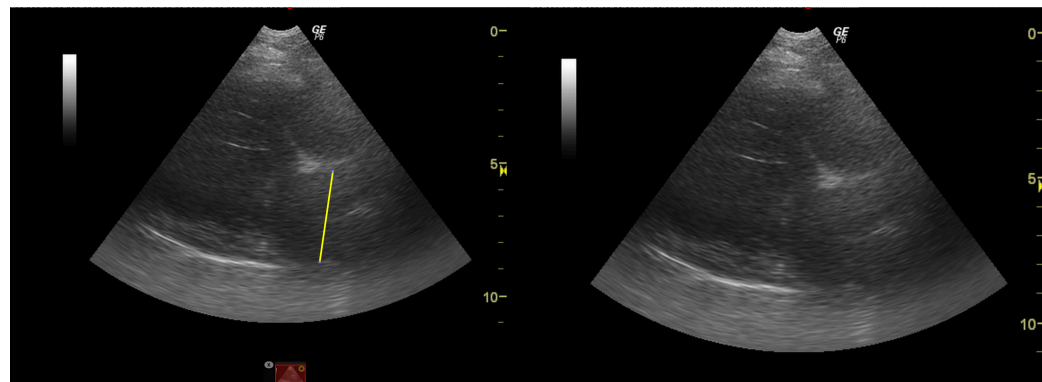
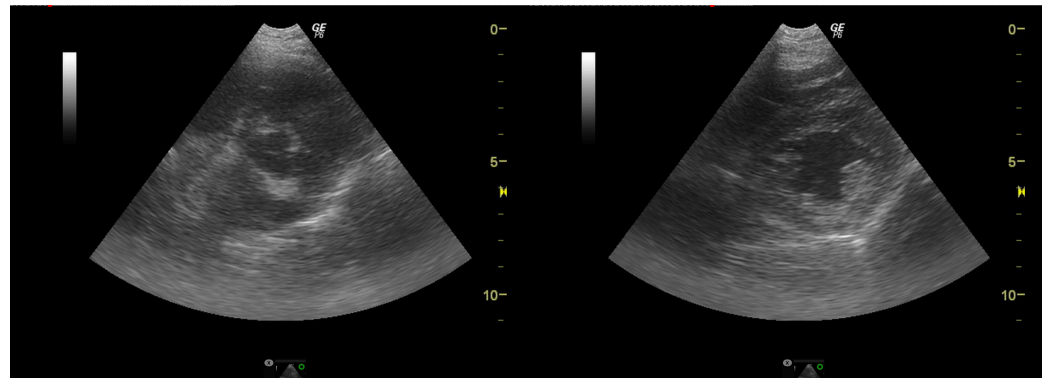
36138

DATE

3/13/22

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

The heart is stable without clinical disease. No overt contraindication for anesthesia of brief to moderate duration. I suggest Torbutrol premed, Propofol induction, Isoflo 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

Jessie Lucas

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.

SPECIES

Canine

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

BREED

Beagle

SEX

Spayed Female

AGE

9 Years 10 Months

WEIGHT

37.1 Pounds

INTERPRETED BY

Eric Lindquist, DMV

DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Dr. Alex McFeely

HOSPITAL NAME

Straley Vet Associates

REFERRING VET

Dr. Alex McFeely

INVOICE

36138

DATE

3/13/22