



PATIENT PRESENTING CLINICAL SIGNS

PATIENT Lily Carson
SPECIES Canine
BREED Spaniel Mix
SEX Spayed Female
AGE 8 years
WEIGHT 26.8 lbs

History: Lily presented 1 month ago for a routine preventive care veterinary appointment and a 4/6 intensity cardiac murmur was auscultated during the exam. She has had no abnormal clinical signs related to the finding. Lily received 2.4 mg Butorphanol IV to lightly sedate for the cardiac ultrasound exam today. Her BP readings were all normal today, ranging from 124/91 (109) to 149/95 (131) mmHg systolic/diastolic (MAP). On thoracic rads, she had a VHS of 11.5 and otherwise normal appearing cardiac silhouette, pulmonary fields and vasculature. Normal CBC, chemistry and 4Dx neg for HW, and tick borne diseases

ULTRASONOGRAPHIC EXAMINATION OF THE HEART

The echocardiogram in this patient demonstrated enlarged **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. Prolapse of the anterior mitral valve leaflet was noted. 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. McFeely

HOSPITAL NAME

Straley VA

REFERRING VET

Dr. McFeely

INVOICE

91896

DATE

9/16/21

CANINE	MR	TR	LA/AO	LA/AO	FS	EF	EPSS
CARDIAC PARAMETERS	VMAX (m/s)	VMAX (m/s)	(Boon method)	(Heart Base; Swe)	(%)	(%)	(cm)
NORMAL PARAMETER	4.5-5.5	<2.7	1.3	<1.6	28-40	40-100	<0.6
PATIENT			1.6		35		0.2
CANINE	HR	AV	PV	BODY WEIGHT	LA	LVIDd	LVIDs
CARDIAC PARAMETERS	(BPM)	VMAX (m/s)	MAX (m/s)		2D short axis Base view (cm)	Avg; 2D and m-mode short axis (cm)	Avg; 2D and m-mode short axis (cm)
NORMAL PARAMETER	50-100	0.7-1.7	0.7-1.6				
PATIENT			0.7	26.8 lbs	4.3	3.6	



PATIENT

Lily Carson

ULTRASONOGRAPHIC FINDINGS

Stage B2 valvular disease. Mitral insufficiency.

SPECIES

Canine

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Blood pressure measurements are warranted. Pimobendan is indicated at 0.3 mg/kg b.i.d. If the basal respiratory rate is >25/minute then Lasix therapy can be considered. However, if the patient is asymptomatic then only Pimobendan would be indicated. Recheck echocardiogram is recommended in 1-3 months depending upon any clinical signs or progression.

BREED

Spaniel Mix

SEX

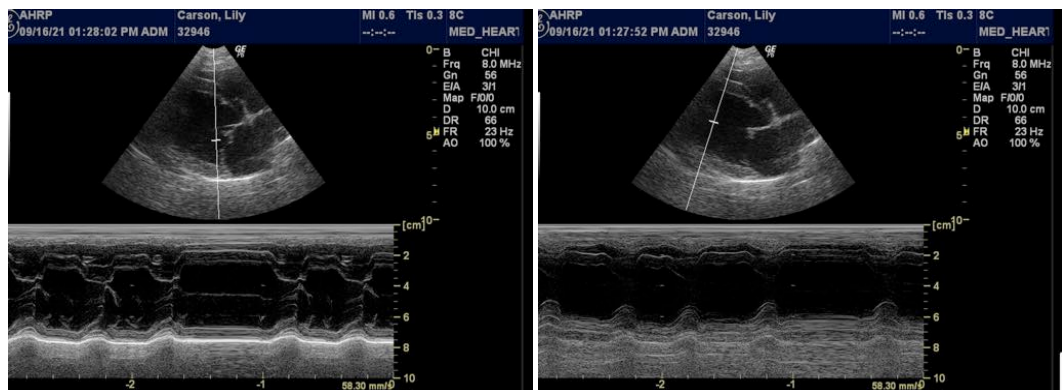
Spayed Female

AGE

8 years

WEIGHT

26.8 lbs



INTERPRETED BY

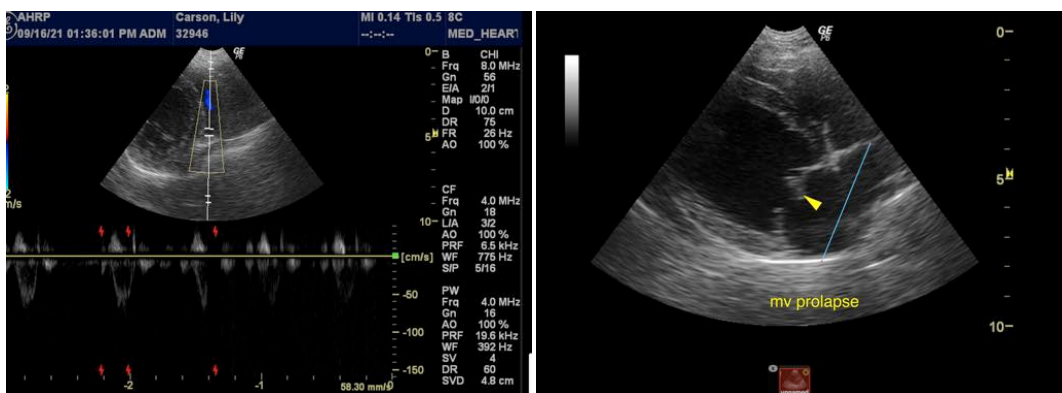
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The information and recommendations provided are based on the images presented by the referring veterinarian. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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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.

DATE

9/16/21

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