



PATIENT PRESENTING CLINICAL SIGNS

Katy Speight History: Grade 3/6 murmur. Coughing, upper respiratory meds not helping. Xray showed mild LA enlargement.
Abnormal PE/Chem/CBC/UA Results: BP 127/98(108), 145/80(99), 150/107(130)

SPECIES

Canine

ULTRASONOGRAPHIC EXAMINATION OF THE HEART

BREED

Shih Tzu

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. 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. Comet tail lung pattern was noted.

SEX

Spayed female

AGE

13 years

WEIGHT

13.2 lbs

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

IMAGING PERFORMED BY

JK

HOSPITAL NAME

Hamburg VC

REFERRING VET

Dr. Martens

INVOICE

31987

DATE

7/27/22

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	5.5		1.72	1.6	61	91	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	BELOW	BELOW	BELOW	BELOW
PATIENT	185	1.2	0.78	13.2 lbs	2.86	2.79	



PATIENT

ULTRASONOGRAPHIC FINDINGS

Katy Speight

Mitral insufficiency.

SPECIES

Mild left atrial enlargement.

Canine

Stage B2 valvular disease.

BREED

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Shih Tzu

This is likely both a cardiac and respiratory component in this patient. There was no evidence of right-sided failure. Comet tail lung pattern was noted. Bronchodilators such as Albuterol is recommended as well as Pimobendan at 0.3 mg/kg b.i.d. Broad spectrum antibiotics such as Zithromax can also be considered; however, left atrial enlargement is mild. Therefore, primary respiratory disease is likely the overt cause of the cough. However, early cardiac medications are indicated owing to mild left atrial enlargement.

AGE

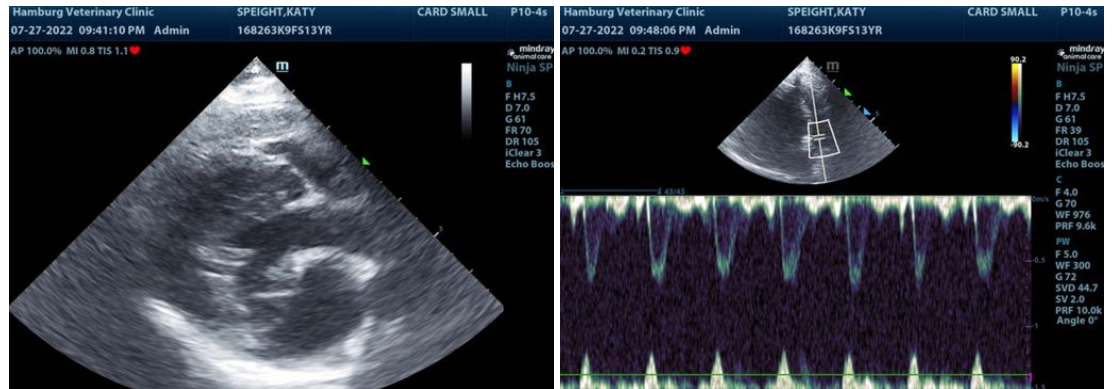
13 years

WEIGHT

13.2 lbs

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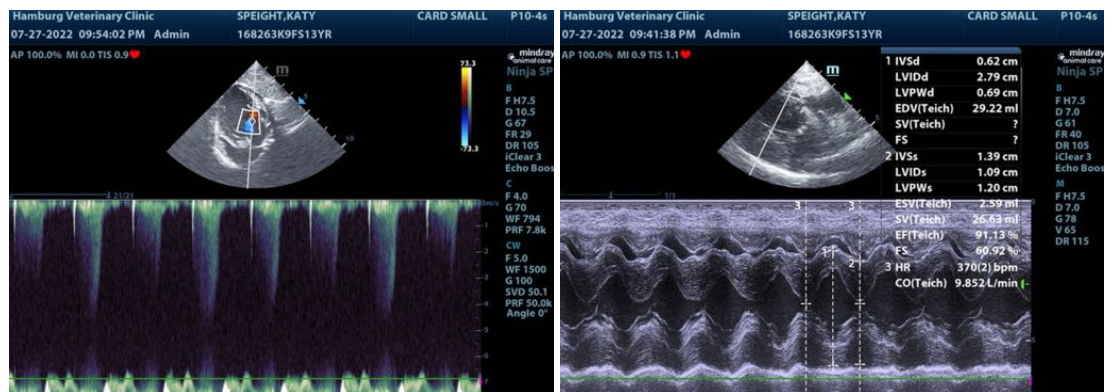


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PATIENT

Katy Speight

SPECIES

Canine

BREED

Shih Tzu

SEX

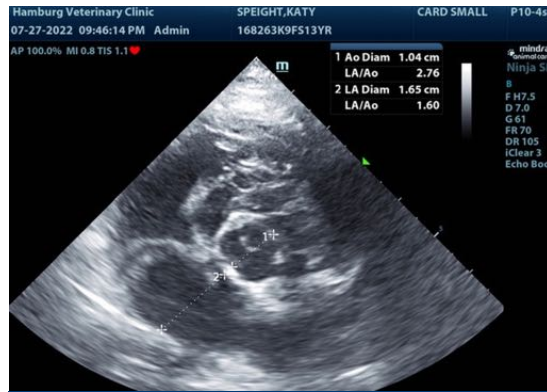
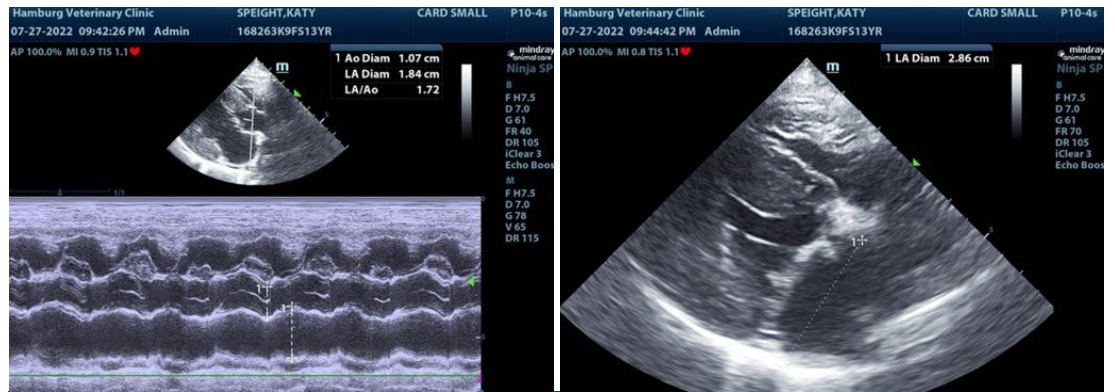
Spayed female

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13 years

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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.

IMAGING PERFORMED BY

JK

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.

HOSPITAL NAME

Hamburg VC

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