



PATIENT PRESENTING CLINICAL SIGNS

Lily Pelletier History: Increased respiratory rate, decreased appetite, lethargy, 2/6 heart murmur

SPECIES ULTRASONOGRAPHIC EXAMINATION OF THE HEART

Canine

BREED	CANINE CARDIAC PARAMETERS	MR VMAX (m/s)	TR VMAX (m/s)	LA/AO (Boon method)	LA/AO (Heart Base; Swe)	FS (%)	EF (%)	EPSS (cm)
Chihuahua								
SEX	NORMAL PARAMETER	4.5-5.5	<2.7	1.3	<1.3	28-40	40-100	<0.6
	PATIENT			NM				NM
AGE	CANINE CARDIAC PARAMETERS	HR (BPM)	AV VMAX (m/s)	PV MAX (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)
15 years								
WEIGHT	NORMAL PARAMETER	50-100	0.7-1.7	0.7-1.6				
6.2	PATIENT							

Cardiac Presentation

The echocardiogram in this patient demonstrated normal left atrial size based on 2 separate methods of LA evaluation. The cranial and caudal mitral valve leaflets presented subjective minor vegetative thickening suggestive of endocardiosis. 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 likely laminar systolic 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 evidence of LV systolic dysfunction or clinical pulmonary hypertension. No visible pericardial or free pleura fluid was noted. Mildly nonhomogeneous mass/lesion was present in the area of the left cranial thorax measuring 2.7 cm x 2.6 cm. The mass appeared to distort the associated deep lung. Overt areas of gas accumulation or trapped air within the left cranial thoracic mass was not evident yet cannot be definitively excluded.

INTERPRETED BY

R. McKenzie Daniel, DVM, DABVP (Canine and Feline)

IMAGING PERFORMED BY

Rebekah Jakum, CVT ARDMS/RVT

HOSPITAL NAME

Pocono Peak VC

REFERRING VET

Dr. Santore

INVOICE

10518ag

DATE

05/03/2022

ULTRASONOGRAPHIC FINDINGS

- Overtly normal cardiac structure and function
- Left thoracic mass



PATIENT

Lily Pelletier

SPECIES

Canine

BREED

Chihuahua

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

No overt evidence of structural or functional cardiomyopathy was observed, a definitive source of the low grade murmur was not evident yet could be associated with mild mitral valve insufficiency if the murmur is primarily left sided. The hemodynamic effects of the murmur are likely low given the lack of left or right chamber enlargement. No indication for cardiac medications.

Although sampling is required for further assessment the left cranial thoracic mass is suggestive of neoplastic criteria although nonneoplastic etiology i.e. granuloma, lung consolidation or other could be possible. Assuming normal clotting status and using a 25g an ultrasound guided FNA of the mass is warranted for screening cytology. Thoracic CT could also be considered for further assessment.

As needed respiratory and GI support is suggested.

SEX

FS

AGE

15 years

WEIGHT

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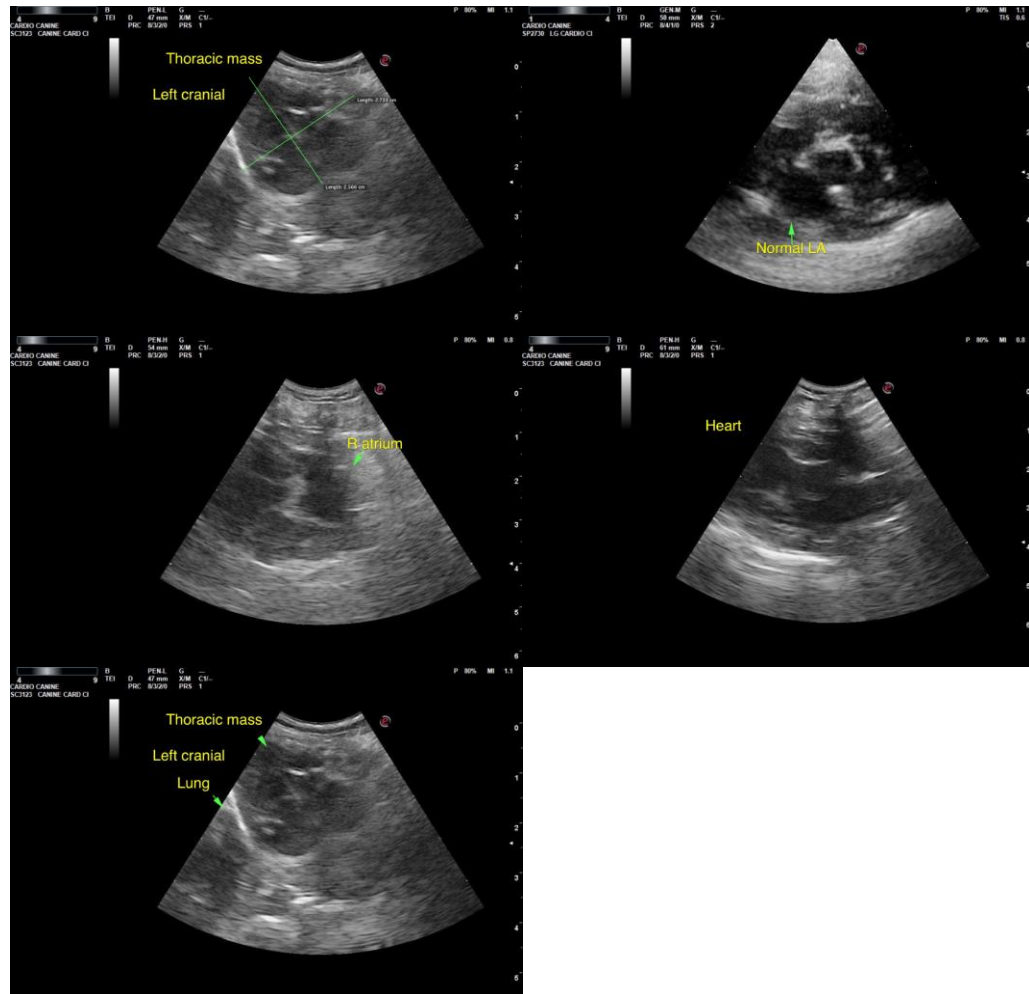
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PATIENT

Lily Pelletier

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.

BREED

Chihuahua

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SEX

FS

AGE

15 years

WEIGHT

6.2

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