



PATIENT PRESENTING CLINICAL SIGNS

Kasha Fossli
Diag hyperthyroid on felamazole 1.25 mg BID now coughing and some wheezing. No murmur on auscultation

SPECIES ULTRASONOGRAPHIC EXAMINATION OF THE HEART

Feline

BREED

Sphynx

SEX

Spayed Female

AGE

10 Years

WEIGHT

3.2 kg

FELINE CARDIAC PARAMETERS	BODY WEIGHT (kg)	HR (BPM)	IVSd (cm)	LVIDd (cm)	LVWd (cm)	FS (%)	EF (%)
NORMAL PARAMETER	-----	150-240	0.3-0.6	1.0-2.1	0.25-0.6	35-67	80-100
PATIENT		214	0.55	1.2	0.52	47	82.5
FELINE CARDIAC PARAMETERS	LA/AO (Boon)	LA/AO HEART BASE (Sisson)	LA 2D 4-chamber long axis AS to FW (Sisson) (cm)		LVOT VEL. (m/s)	RVOT VEL. (m/s)	IVRT (m/)
NORMAL PARAMETER	<1.5	0.88-1.79	0.7-1.7		<1.6	<1.3	40-60
PATIENT	1.56	1.56	1.48		1.0	1.0	NM

Adapted from June Boon, Veterinary Echocardiography, 1998
Sisson D et al. JVIM 1991; 5: 232, Jacobs et al. Am J Vet Res 1985; 46:1705

Cardiac Presentation

The echocardiogram in this patient demonstrated enlarged **left atrial** size based on 3 separate LA measurements. The cranial and caudal **mitral** valve leaflets presented subtle thickening, yet normal kinetics and without overt evidence of insufficiency on color doppler assessment. The **left ventricular** septum and free wall revealed adequate contractility and normal LV volume, yet some echogenic remodeling of the septum and free wall were noted. This does not appear to be functional issue at this point. This is most suggestive myocardial remodeling with potential for mild **myocardial fibrosis**, which is an age related change. No overt evidence of significant LV hypertrophy. The **left ventricular outflow** tract demonstrated normal laminar flow and subjective structural integrity. The **right atrium** and auricle revealed increased size and normal content. No evidence of masses was noted or chamber overload. **Tricuspid** valvular assessment demonstrated adequate linear morphology and kinetics. 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 or extra cardiac pathology in the visible planes. The cranial **mediastinum** and **pericardial regions** were free of masses in the visible window.

ULTRASONOGRAPHIC FINDINGS

- Overtly normal cardiac structure and function for age
- Normal left atrium
- Mild LV myocardial remodeling – potential for minor fibrosis.

INTERPRETED BY

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

IMAGING PERFORMED BY

Dr. Belan

HOSPITAL NAME

Signal Hill AH

REFERRING VET

Dr. Sweet

INVOICE

33999

DATE

1/5/22



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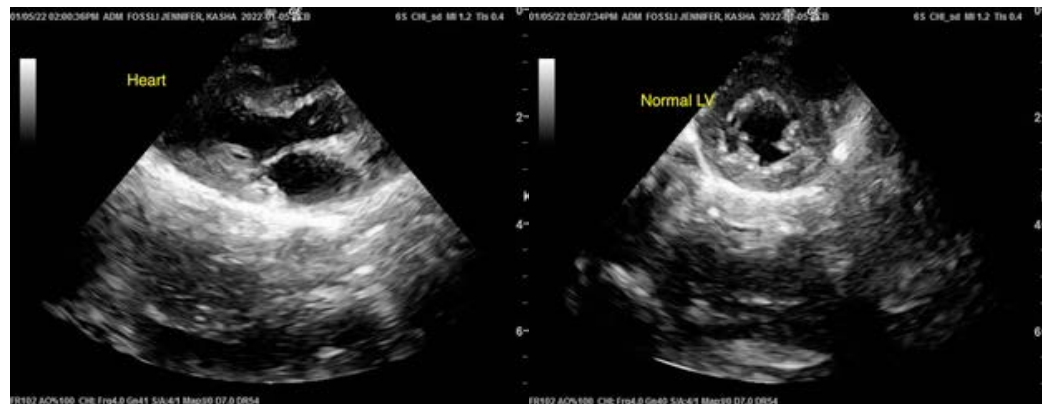
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INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

The lack of left atrial enlargement as well as overall lack of left or right heart chamber enlargement indicate that the risk for complication is low in this patient. No other clinical issues such as significant hypertrophic LV changes, systolic dysfunction, or evidence of clinical pulmonary hypertension were present. Given the cardiac presentation, the coughing and wheezing in this patient do not appear to be cardiogenic in nature. Consideration for primary lower airway disease is indicated. No indication for cardiac medications. Recheck echocardiogram suggested in 6 months, sooner if clinical signs suggestive of heart disease develop.



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.

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.

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