



**PATIENT PRESENTING CLINICAL SIGNS**

Ebonnie AL Cheik

**SPECIES**

Feline

**BREED**

Domestic Shorthair

**SEX**

Spayed female

**AGE**

14 years

**WEIGHT**

4.11 lbs

History: Presented for vomiting and having few syncope episodes within last month. The cat few years ago had previously a radiation treatment as affected by thyroid adenoma. The treatment has been effective until 2022, then the patient started with polyphagia, vomiting polydipsia and polyuria. At the clinical examination Ebonnie is BAR. Both pupils are quite dilated. Not a clear reaction with the light. Has lost 500 gr since October. HR 220 RR 35. The rest of the examination is unremarkable.

Abnormal PE/Chem/CBC/UA Results: The CBC reveals parameters in the normal average. Comprehensive reveals high ALP and ALT. The urinalysis reveals 1060 SG.

**ULTRASONOGRAPHIC EXAMINATION OF THE HEART**

The echocardiogram in this patient demonstrated normal **left atrial** size based on 3 separate LA measurements. The **mitral** valve was mildly thickened. The **left ventricle** was slightly enlarged, yet normal. 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 and angles of the myocardium. The **left ventricular outflow** tract demonstrated normal 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 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 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. The hepatic veins were not dilated.

**INTERPRETED BY**

Eric Lindquist, DMV  
DABVP, Cert. IVUSS

**IMAGING PERFORMED BY**

Dr. Valentina

**HOSPITAL NAME**

The Veterinary Surgery

**REFERRING VET**

Dr. Fresta

**INVOICE**

44048

**DATE**

4/27/23

FELINE CARDIAC PARAMETERS	BODY WEIGHT	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	4.11 lbs	NM	0.45	1.8	0.44	45	
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	1.6	1.6	1.5	NM	NM	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



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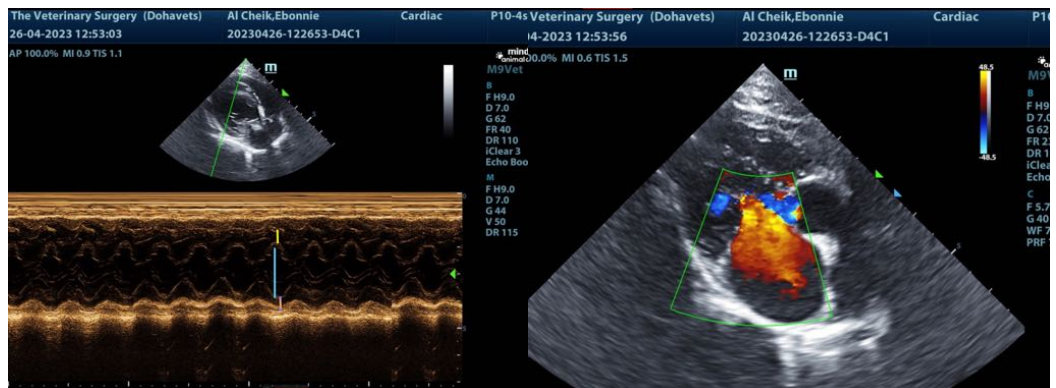
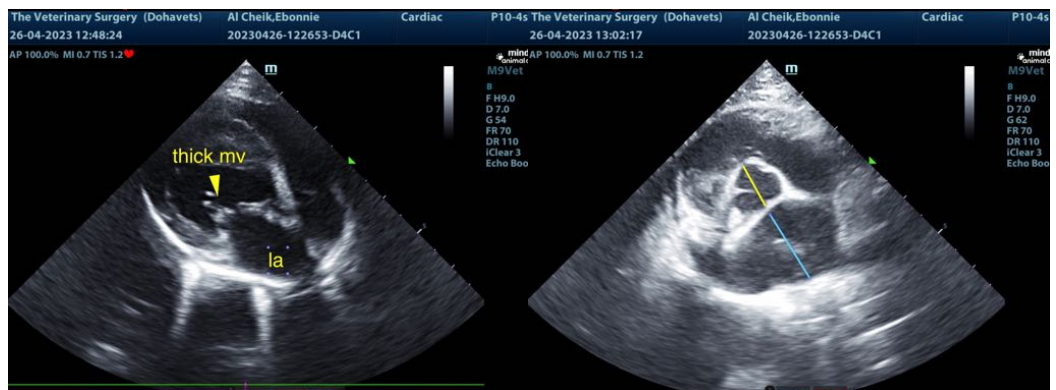
**ULTRASONOGRAPHIC FINDINGS**

Mildly thickened mitral valve, yet contained volumes.

Adequate contractility.

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

There was no evidence of overt cardiac disease noted in this patient. However, given the patient's history paroxysmal arrhythmia, hypertensive event cannot be ruled out. No specific treatment is recommended at this time. Serial blood pressure measurements are recommended in a white coat negative environment. Ideally color flow and spectral Doppler evaluation of all valvular apparatuses would be recommended.



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.

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**  
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