

**PATIENT**

Lilly Heil

**SPECIES**

Feline

**BREED**

Domestic Medium Hair

**SEX**

Spayed female

**AGE**

15 years

**WEIGHT**

11 lbs

**INTERPRETED BY**

Eric Lindquist, DMV,  
 DABVP, Cert. IVUSS,  
 CEO of SonoPath.com

**IMAGING PERFORMED BY**

Shari Reffi, CVT

**HOSPITAL NAME**

William Penn VH

**REFERRING VET**

Dr. Mahmoud

**INVOICE**

71632

**DATE**

2/17/26

**PRESENTING CLINICAL SIGNS**

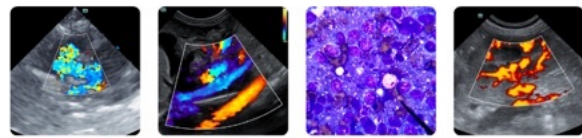
- Vomiting, lethargic.
- Grade 4/6 heart murmur, cardiomegaly, tachycardia, pleural effusion
- Diabetic
- receiving Lantus 1U bid
- Mild thrombocytopenia

**ULTRASONOGRAPHIC EXAMINATION OF THE HEART**

The echocardiogram in this patient demonstrated normal **left atrial** size based on 3 separate LA measurements. The cranial and caudal **mitral** valve leaflets presented normal linear structure and kinetics.. The **left ventricle** presented normal 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 and angles 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 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 **pleural** effusion was noted at the time of the sonogram. The cranial **mediastinum and pericardial regions** were free of masses in the visible window. The hepatic veins were not dilated.

**E Wave Velocity 0.8**

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	11 lbs	183	0.34	1.59	0.32	36	70
FELINE CARDIAC PARAMETERS	LA/AO (M-mode)	LA/AO HEART BASE (Sisson)	LAD LA MAX 4 Chamber		LVOT VEL. (m/s)	RVOT VEL. (m/s)	IVRT (m/)
NORMAL PARAMETER	<1.5	1.6	0.7-1.7		<1.6	<1.3	40-60
PATIENT	1.3	1.36	1.0		1.2	0.9	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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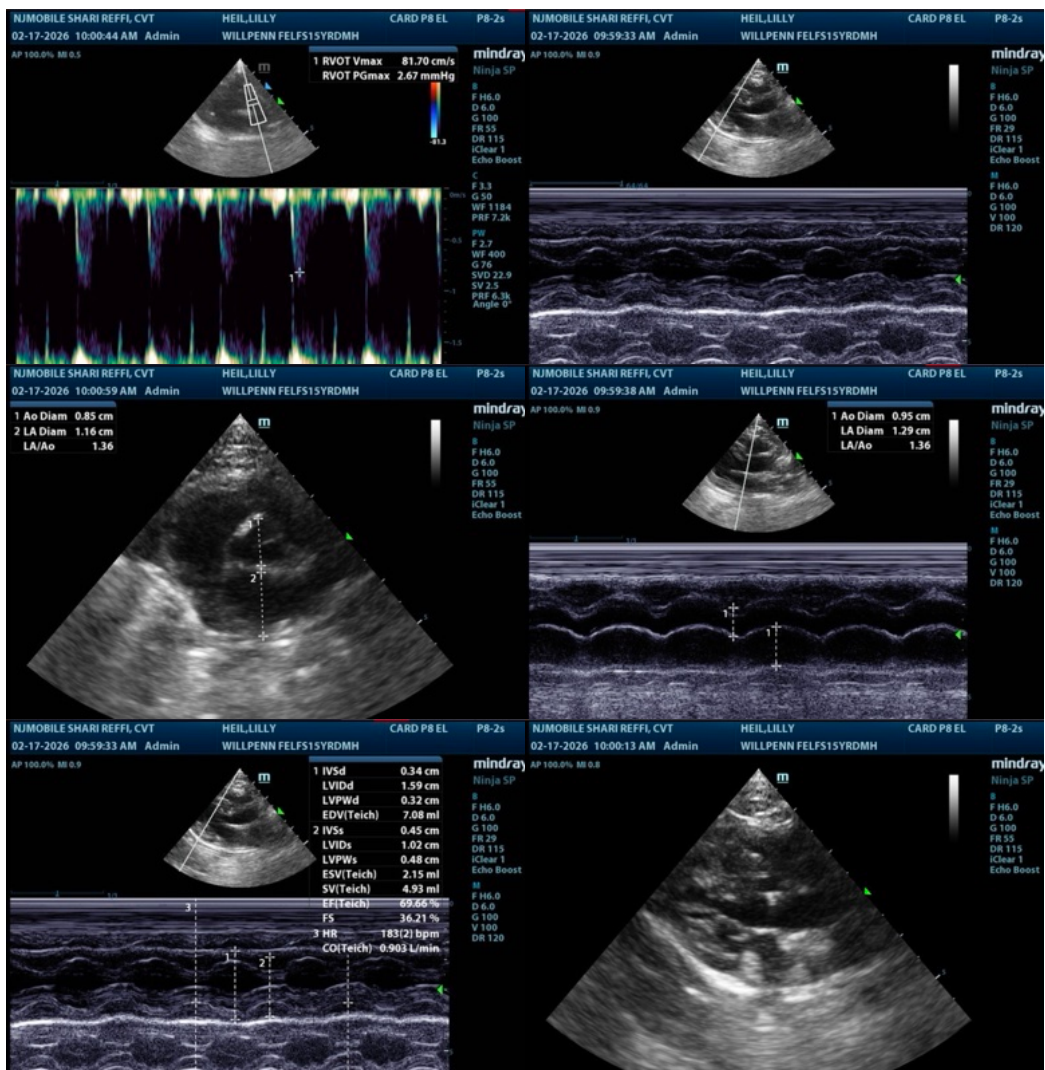
2/17/26

**ULTRASONOGRAPHIC FINDINGS**

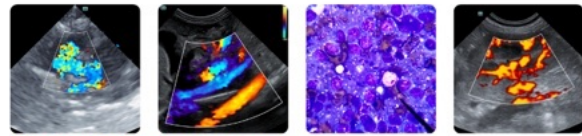
Normal echocardiogram.

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

There was no evidence of cardiogenic disease as cause of the clinical history. If pleural effusion was present and confirmed in this patient's history then abdominal sonogram is warranted to assess for primary disease that may be influencing the chest, yet no pleural effusion was noted at the time of the echocardiogram.



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.



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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.

Eric Lindquist, DMV, DABVP, Cert. IVUSS, CEO of SonoPath.com

Info@SonoPath.com