


**PATIENT**

Storm VanVerick

**PRESENTING CLINICAL SIGNS**

pro BNP elevation; please assess for anesthesia for dental

**SPECIES**

Feline

Abnormal PE/Chem/CBC/UA Results: Pro BNP 109, all else wnl

**BREED**

Bengal

**ULTRASONOGRAPHIC EXAMINATION OF THE HEART**
**SEX**

MN

**AGE**

13yr

**WEIGHT**

12lb

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		187	0.55	1.4	0.55	52	86.5
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	1.3	1.3	1.3		1.0	1.0	

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

**INTERPRETED BY**

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

**Cardiac Presentation**

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. Trace centralized MR present on Doppler. 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. The 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. Normal measured LVOT velocity was present. 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. No overt TR present on Doppler. 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). Normal measured RVOT velocity was present. 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.

**IMAGING PERFORMED BY**

Diane McFadden

**HOSPITAL NAME**

The Gentle Vet

**REFERRING VET**

Dr. Dulude

**ULTRASONOGRAPHIC FINDINGS**

- Normal echocardiogram.
- Trace MR-not clinically significant.

**INVOICE**

13542ag

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**
**DATE**

04/21/2023



**PATIENT**

Storm VanVerick

Normal cardiac structure and function without evidence of left/right chamber enlargement, HCM criteria or significant valvular insufficiencies. No anesthetic contraindications. Suggested anesthetic protocol may include opioid or Benzodiazepine pre-med, induction with Propofol or Alfaxalone, and appropriate gas anesthesia with avoidance of alpha 2 agonists.

**SPECIES**

Feline

Echocardiographic monitoring suggested if progression of increased pro BNP or if a murmur develops.

**BREED**

Bengal

**SEX**

MN

**AGE**

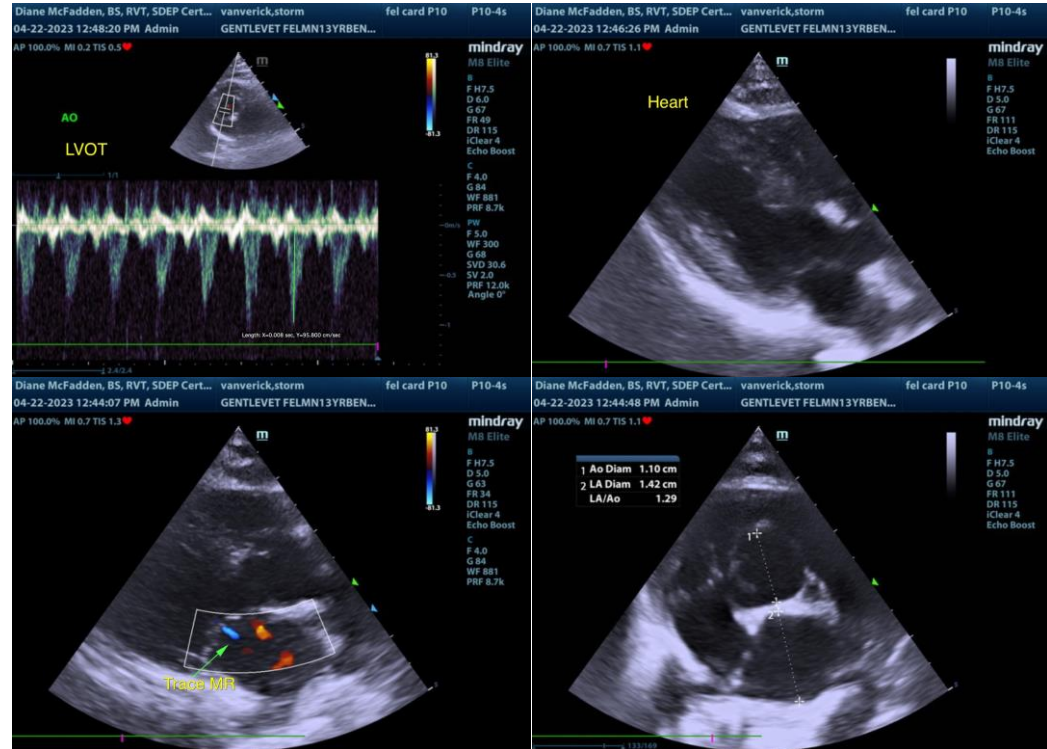
13yr

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**IMAGING PERFORMED BY**

Diane McFadden

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.

**HOSPITAL NAME**

The Gentle Vet

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.

R. McKenzie Daniel, DVM, DABVP (Canine/Feline Practice)  
[mac.daniel@sonopath.com](mailto:mac.daniel@sonopath.com)

**REFERRING VET**

Dr. Dulude

**INVOICE**

13542ag

**DATE**

04/21/2023