



## PATIENT

Scruffie Washam

## SPECIES

Feline

## BREED

DLH

## SEX

Neutered Male

## AGE

14 years

## WEIGHT

10.9 lbs.

## INTERPRETED BY

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

## IMAGING PERFORMED BY

Jessica Miller

## HOSPITAL NAME

Blairstown AH

## REFERRING VET

Dr. Harker

## INVOICE

12274

## DATE

9/22/21

## PRESENTING CLINICAL SIGNS

-Heart arrhythmia noted. Had abdominal ultrasound 9/20/21  
Abnormal PE/Chem/CBC/UA Results: WBC 45k

## ULTRASONOGRAPHIC EXAMINATION OF THE HEART

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		262	0.54	1.2	0.44	53.3	88.2
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	1.4	1.36	1.54	1.0	0.2	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 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 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. Inconsistent heart rate consisting of periods of tachycardia with Intermittent tachyarrhythmia were present.



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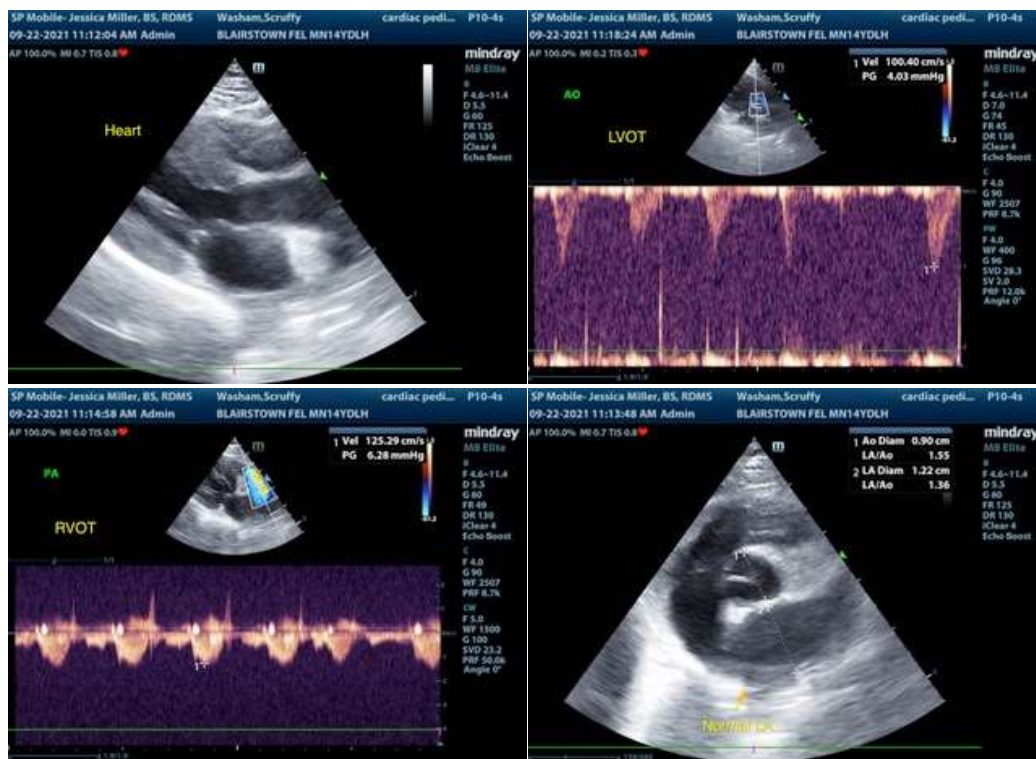
## ULTRASONOGRAPHIC FINDINGS

### Primary Findings

- Overtly normal cardiac structure and function
- Inconsistent tachycardia with intermittent tachyarrhythmia

### INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

No overt evidence of structural cardiomyopathy as an obvious cause of the intermittent arrhythmia which is confirmed in this patient. Although not definitive, the arrhythmia is suggestive of potential ventricular premature contractions. ECG for further assessment and potential for cardiology interpretation is recommended. A Holter Monitor may be indicated in this patient pending additional recommended abdominal diagnostics. ECG assessment and cardiology consultation are recommended prior to potential anesthesia. No indication for medications for structural cardiomyopathy.



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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