



PATIENT

Ash Lee

SPECIES

Feline

BREED

DSH

SEX

MN

AGE

7 years

WEIGHT

12 lbs.

INTERPRETED BY

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

IMAGING PERFORMED BY

Val Shumskaya

HOSPITAL NAME

Whippany Vet

REFERRING VET

Dr. Smith

INVOICE

16686

DATE

4/25/23

PRESENTING CLINICAL SIGNS

Cardiac murmur, needs dental procedure R/O cardiac dz

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		190	0.45	1.3	0.45	53	88
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		1.35	1.35		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 normal **left atrial** size based on 3 separate LA measurements. The cranial and caudal **mitral** valve leaflets presented normal linear structure and kinetics. No obvious MR was noted 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. **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. Mild TR was noted 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 RV outflow velocity was noted. 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

- Normal echocardiogram
- Mild TR



PATIENT

Ash Lee

SPECIES

Feline

BREED

DSH

SEX

MN

AGE

7 years

WEIGHT

12 lbs.

INTERPRETED BY

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

IMAGING PERFORMED BY

Val Shumskaya

HOSPITAL NAME

Whippany Vet

REFERRING VET

Dr. Smith

INVOICE

16686

DATE

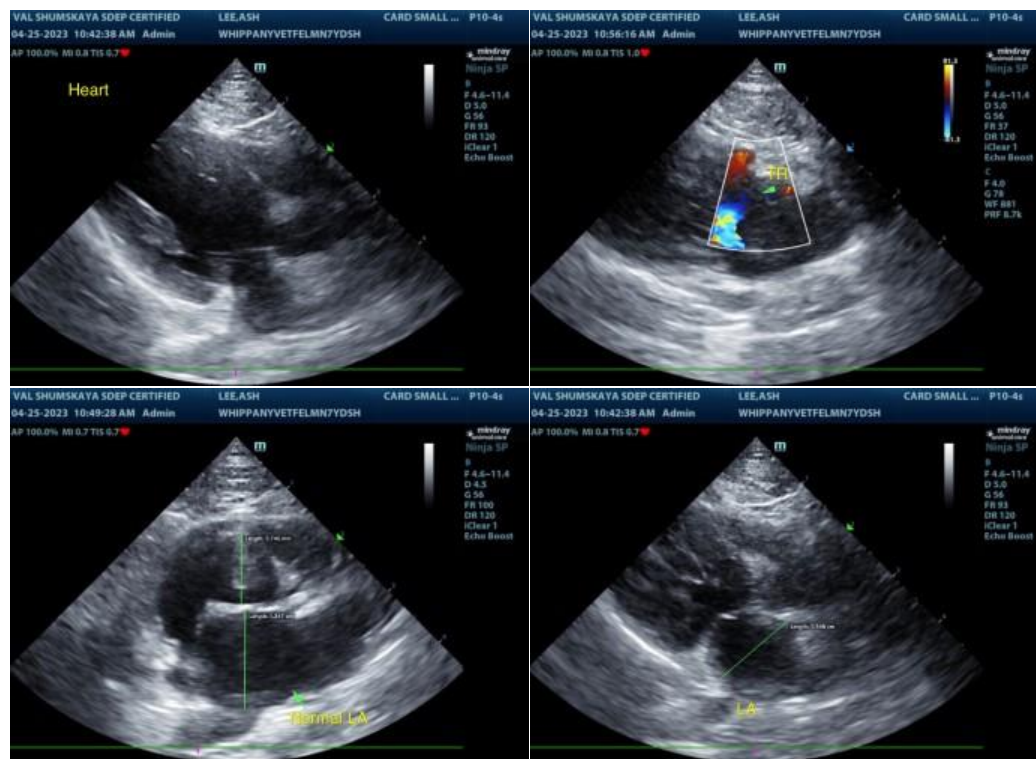
4/25/23

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

No evidence of structural or functional cardiomyopathy, including no evidence of HCM criteria, LV systolic dysfunction, left or right heart chamber enlargement, or evidence of clinical pulmonary hypertension. The only source of the potential murmur is mild TR which is suspected to be inaudible. Assuming no evidence of volume changes or dehydration, a benign physiologic / flow murmur is probable, although a small non-visualized alternative flow abnormality cannot be definitively excluded.

Regardless, the hemodynamic effects of the murmur appear to be minimal without evidence of left or right heart chamber enlargement or structural cardiomyopathy. There is no indication for cardiac medications. There are no anesthetic contraindications. Conservative monitoring of the murmur is recommended at this stage. Recheck echocardiogram is suggested in 8-12 months, sooner if murmur intensity increases or if clinical signs arise.

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.





PATIENT

Ash Lee

SPECIES

Feline

BREED

DSH

SEX

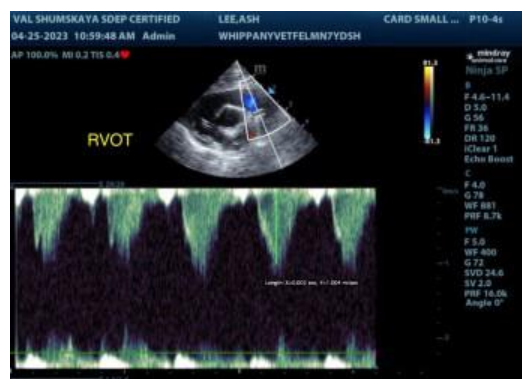
MN

AGE

7 years

WEIGHT

12 lbs.



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.

INTERPRETED BY

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

R. McKenzie Daniel, DVM, DABVP (Canine / Feline Practice)
info@SonoPath.com

IMAGING PERFORMED BY

Val Shumskaya

HOSPITAL NAME

Whippany Vet

REFERRING VET

Dr. Smith

INVOICE

16686

DATE

4/25/23