



PATIENT

Whiskers Rusinko

SPECIES

Feline

BREED

Domestic Shorthair

SEX

Neutered male

AGE

16 years

WEIGHT

10 lbs

PRESENTING CLINICAL SIGNS

History: Recent onset 5/6 heart murmur and arrhythmia noted on auscultation. No previous murmur heard. Owner noted increased respiratory rate at home. Elevated proBNP and hypokalemia noted 4/5/23.

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 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. Tachyarrhythmia was noted in this patient.

Rapid echocardiogram was performed given the clinical status.

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUS

IMAGING PERFORMED BY

Jill Rumachik

HOSPITAL NAME

Clarity Imaging, LLC

REFERRING VET

CC SHeldon

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	10 lbs	NM	0.62	1.12	0.6	50	
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	1.4	1.3	-	1.1	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							

INVOICE

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DATE

4/11/23



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ULTRASONOGRAPHIC FINDINGS

Structurally and functionally normal echocardiogram with tachyarrhythmia.

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INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

The clinical signs are likely owing to arrhythmogenic disease; however, concurrent comorbidities were noted in the abdomen, CNS and extra cardiac thorax should also be considered. Structurally and functionally the heart is unremarkable. However, periodic tachyarrhythmia episodes are noted and may be lethal. EKG is warranted for further definition. Paroxysmal tachyarrhythmia are likely the responsible for the clinical history. Underlying infectious disease or other causes of myocarditis should be considered.

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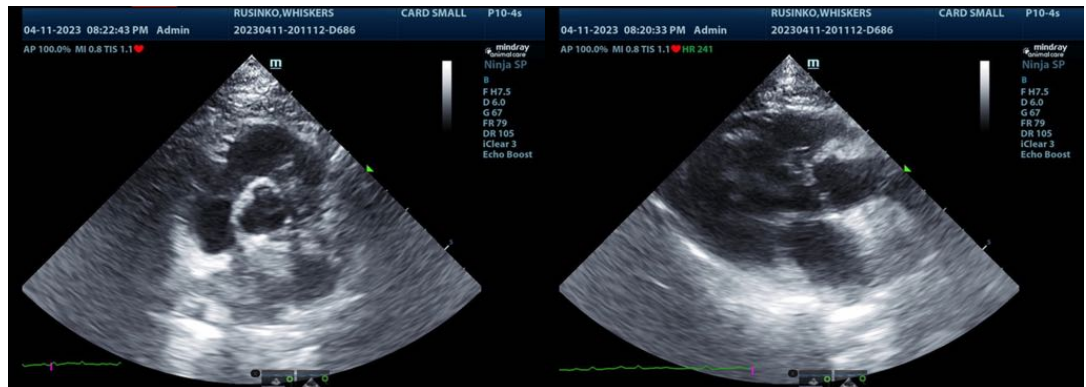
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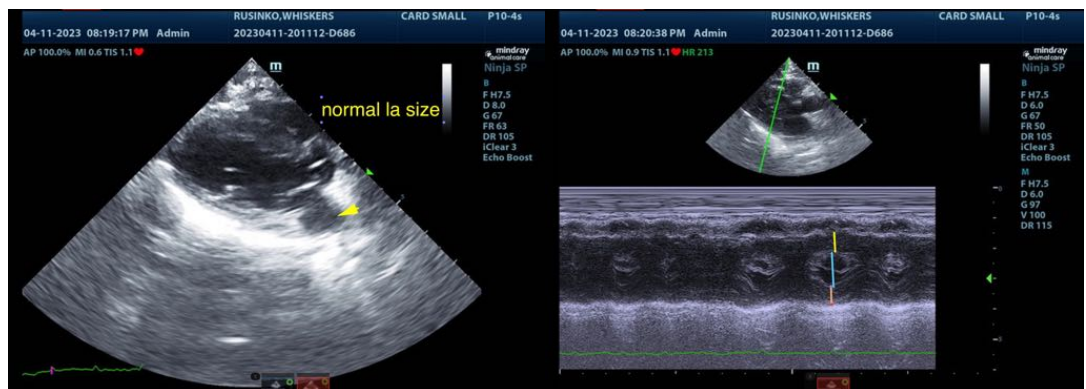
WEIGHT

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INTERPRETED BY

Eric Lindquist, DMV
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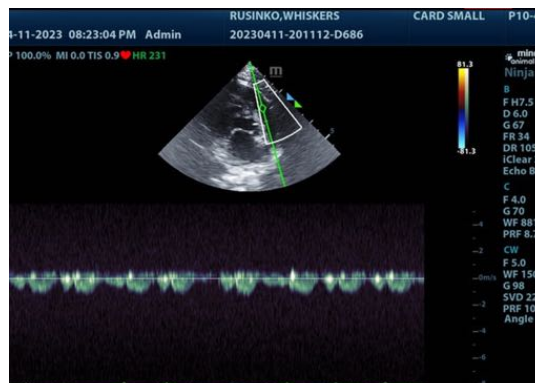
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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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.

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

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