



**PATIENT PRESENTING CLINICAL SIGNS**

Posie Neisus 3/6 heart murmur, clinically normal.

**SPECIES ULTRASONOGRAPHIC EXAMINATION OF THE HEART**

Feline	<b>FELINE CARDIAC PARAMETERS</b>	<b>BODY WEIGHT (kg)</b>	<b>HR (BPM)</b>	<b>IVSd (cm)</b>	<b>LVIDd (cm)</b>	<b>LVWd (cm)</b>	<b>FS (%)</b>	<b>EF (%)</b>
	<b>NORMAL PARAMETER</b>	-----	150-240	0.3-0.6	1.0-2.1	0.25-0.6	35-67	80-100
	<b>PATIENT</b>		226	0.45	1.48	0.49	48	83
	<b>FELINE CARDIAC PARAMETERS</b>	<b>LA/AO (Boon)</b>	<b>LA/AO HEART BASE (Sisson)</b>	<b>LA 2D 4-chamber long axis AS to FW (Sisson) (cm)</b>		<b>LVOT VEL. (m/s)</b>	<b>RVOT VEL. (m/s)</b>	<b>IVRT (m/)</b>
Ragdoll	<b>NORMAL PARAMETER</b>							
	<b>PATIENT</b>							
Neutered Male	<b>NORMAL PARAMETER</b>	<1.5	0.88-1.79	0.7-1.7		<1.6	<1.3	40-60
	<b>PATIENT</b>	1.33	1.2	1.25		1.1	0.4	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							

**WEIGHT**  
13 Pounds

**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.

**INTERPRETED BY**

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

**IMAGING PERFORMED BY**

Dr. Gromalak

**HOSPITAL NAME**

SVS Imaging

**REFERRING VET**

Dr. Severson

**ULTRASONOGRAPHIC FINDINGS**

- Overtly normal cardiac structure and function

**INVOICE**

33712

**DATE**

12/23/21

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

No evidence of structural or functional cardiomyopathy. An obvious cause of the murmur was not definitively evident. In the absence of volume changes (dehydration or anemia), suspected physiologic flow murmur is possible, although a small flow abnormality or shunt cannot be definitively excluded. No evidence of systolic dysfunction, valvular stenotic disease, or definitive shunt such as PDA or overt VSD noted.



**PATIENT**

Posie Neisus

The lack of left or right heart chamber enlargement indicates that the risk secondary to the murmur is low at this time. No indication for cardiac medications. Continued conservative monitoring of the murmur is recommended. Recheck echocardiogram suggested in 6-12 months, sooner if the murmur persists/progresses, or if clinical signs concerning for underlying heart disease develop. No overt anesthetic contraindications.

**SPECIES**

Feline

**BREED**

Ragdoll

**SEX**

Neutered Male

**AGE**

1 Year

**WEIGHT**

13 Pounds

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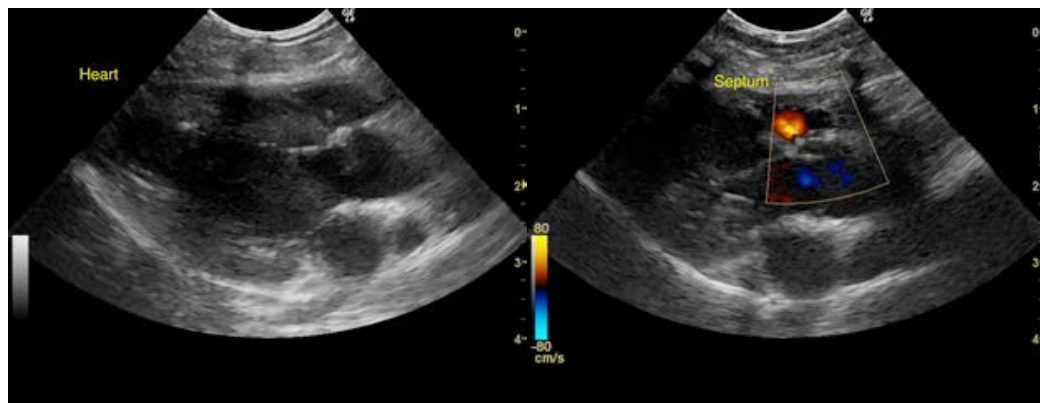
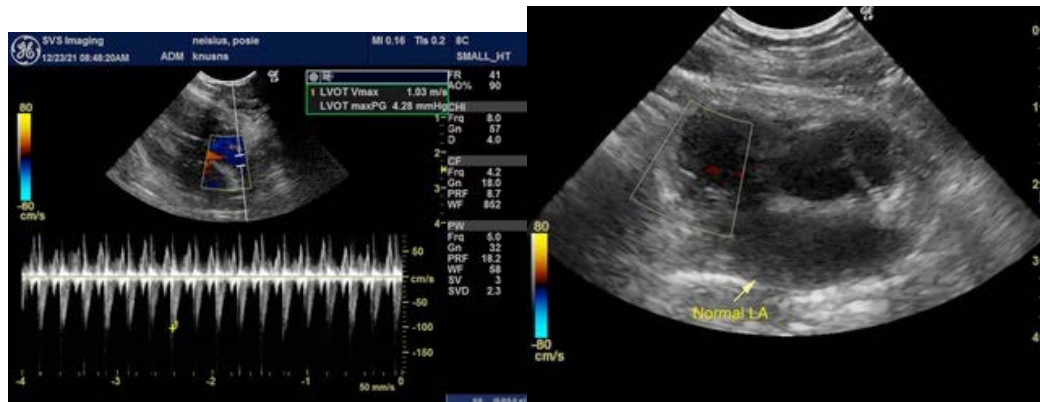
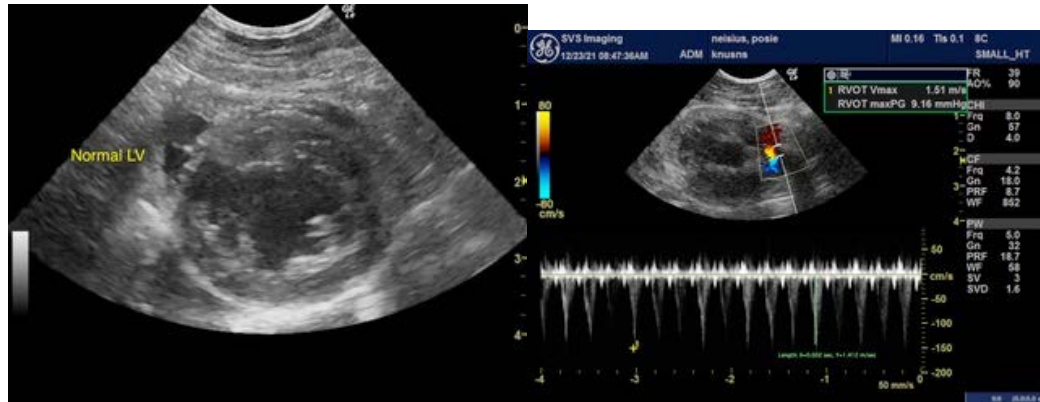
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**PATIENT**

Posie Neisus

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.

**SPECIES**

Feline

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.

**BREED**

Ragdoll

R. McKenzie Daniel, DVM, DABVP (Canine / Feline Practice)  
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**SEX**

Neutered Male

**AGE**

1 Year

**WEIGHT**

13 Pounds

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