



**PATIENT**

Bella Ramos

**SPECIES**

Feline

**BREED**

DSH

**SEX**

Spayed Female

**AGE**

10

**WEIGHT**

12.4

**INTERPRETED BY**

Camden Rouben DVM,  
DACVIM (Cardiology)

**IMAGING PERFORMED BY**

Dr. Sharkawy

**HOSPITAL NAME**

Union Vet Animal  
Hospital

**REFERRING VET**

Dr. Ray

**INVOICE**

16068

**DATE**

05/11/26

**PRESENTING CLINICAL SIGNS**

Urolithiasis, Bladder stones

Abnormal PE/Chem/CBC/UA Results: Radiograph- bladder stones Heart murmur grade 3/6

**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	5.64	NM	4.98 mm	1.22	6.1 mm	62.3	--
FELINE CARDIAC PARAMETERS	LA/AO (M-mode)	LA/AO HEART BASE (Sisson)	LAD LA MAX 4 Chamber		LVOT VEL. (m/s)	RVOT VEL. (m/s)	LVIDs (m/s)
NORMAL PARAMETER	<1.5	1.6	0.7-1.7		<1.6	<1.3	
PATIENT	--	1.16	--		--	0.8	0.46
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**

Based off of the images provided, the left atrium is within normal limits. The mitral valve leaflets are normal and there is suspected mitral regurgitation. There is suspected evidence of systolic anterior motion of the mitral valve with a probable left ventricular outflow tract obstruction. There is mild concentric hypertrophy of the left ventricular free wall. The right atrium is normal. The tricuspid valve is normal without evidence of tricuspid regurgitation. Right ventricle appears to have normal systolic function subjectively. The aortic valve appears normal. The right ventricular outflow velocities display a dynamic right ventricular outflow tract obstruction pattern. There's no evidence of pleural effusion, pericardial effusion, or intracardiac masses based off of the images provided.

**ULTRASONOGRAPHIC FINDINGS**

- Hypertrophic obstructive cardiomyopathy phenotype ACVIM stage B1.

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

If not already performed, it is recommended that this patient's blood pressures be assessed to make sure it's normal. It's also recommended that this patient be assessed to make sure that it is euthyroid.

No cardiac medications are indicated at this time as it is a low risk for complications associated with this condition. Since this can be a progressive condition, serial monitoring is recommended. It's recommended to recheck an echocardiogram in six months, sooner if the develops abnormal clinical



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signs.

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As far as anesthesia goes, standard perioperative fluid rate should be well tolerated. Medications like ketamine are best avoided. Anticholinergics can be used in the face of a clinically significant bradyarrhythmia.

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Activity restriction is not warranted in this particular patient.

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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.

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.

## INVOICE

16068

Camden Rouben DVM, DACVIM (Cardiology)

[info@SonoPath.com](mailto:info@SonoPath.com)

## DATE

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