

PATIENT

Mia Guthrie

SPECIES

Canine

BREED

Shih Tzu

SEX

Spayed Female

AGE

12 Years

WEIGHT

14 Pounds

INTERPRETED BY

Sara Brethel DVM,
 DACVIM (Cardiology)

IMAGING PERFORMED BY

Andrea Nicastro, DVM,
 DACVIM

HOSPITAL NAME

Waterway AH

REFERRING VET

Dr. Walker

INVOICE

35167

DATE

12/31/25

PRESENTING CLINICAL SIGNS

History: Hx of hypertension (BP on 12/8/25 was 170mmHg - Doppler), renal dz, seizures 3/6 murmur
 Current Rx: Amlodipine - 1.25 mg q 24 hr, SQ fluids 2x/week

ULTRASONOGRAPHIC EXAMINATION OF THE HEART

CANINE CARDIAC PARAMETERS	MR VMAX (m/s)	TR VMAX (m/s)	LA/AO (M-Mode)	LA/AO (Heart Base; Swe)	FS (%)	EF (%)	EPSS (cm)
NORMAL PARAMETER	4.5-5.5	<2.7	1.3	Up to 1.6	28-40	40-100	<0.6
PATIENT	6.0	~3.0	1.39	1.49	44.44	--	NM
CANINE CARDIAC PARAMETERS	HR (BPM)	AV VMAX (m/s)	PV MAX (m/s)	BODY WEIGHT (kg)	LAD LA MAX 4 Chamber	LVIDd Avg; 2D and m-mode short axis (cm)	LVIDs Avg; 2D and m-mode short axis (cm)
NORMAL PARAMETER	50-100	0.7-1.7	0.7-1.6				
PATIENT	--	~1.0	~1.0	6.36	3.0	2.7	1.5

Cardiac Presentation

The mitral valve leaflets are mildly thickened with mild mitral regurgitation posteriorly directed. There is no prolapse of the mitral valve leaflet. Left atrial size appears mildly increased on long axis assessment. Left ventricular internal dimensions during diastole are within normal limits and systolic function is preserved in the face of mitral regurgitation. There is normal right atrial size with mild tricuspid regurgitation. There is no prolapse of the tricuspid valve leaflets and no evidence of pulmonary hypertension based upon tricuspid regurgitant velocities. The right ventricle subjectively appears normal in structure and function. The aortic and pulmonic valves have normal morphology and the corresponding outflow velocities are within normal limits. There is no evidence of pulmonic or aortic insufficiency. The aorta appears normal. The pulmonary artery and associated branches appear normal. There is no evidence of pleural effusion, pericardial effusion, or intracardiac masses.

ULTRASONOGRAPHIC FINDINGS

- Degenerative valve disease, ACVIM stage B-1
- Mild left atrial enlargement on long axis assessment
- History of hypertension

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

The patient has degenerative valve disease ACVIM stage B1 and no cardiac medications are indicated



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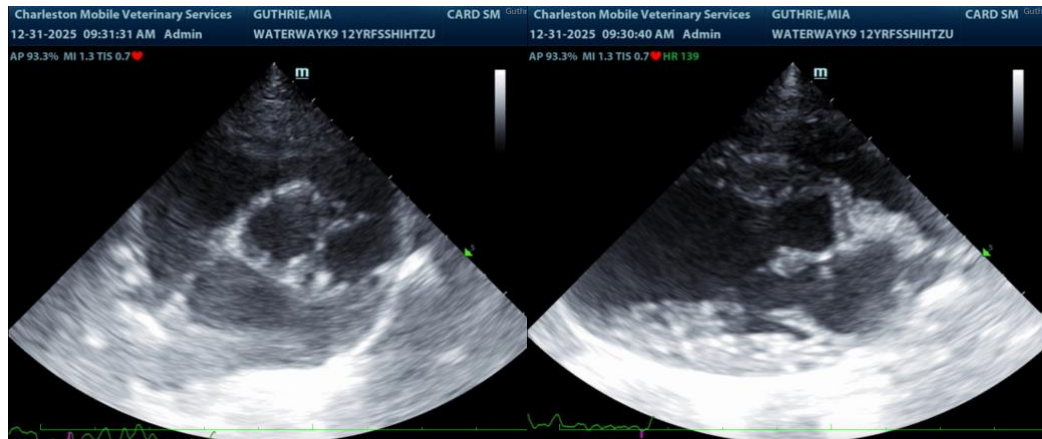
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at this time. Since this can be a progressive condition, serial monitoring is recommended. A recheck echocardiogram is recommended in 4-6 months, sooner if respiratory signs are developing. Recommend continued therapy with amlodipine, given the reported blood pressure. Recommend following ACVIM guidelines for systemic hypertension. Elective anesthetic procedures should be well tolerated.



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.

Sara Brethel DVM, DACVIM (Cardiology)

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