



PATIENT

Nena Colon

SPECIES

Canine

BREED

Shih Tzu Mix

SEX

Female Intact

AGE

8 years

WEIGHT

11.44lbs

INTERPRETED BY

Maggie Machen
Lamy, DVM
DACVIM (Cardiology)

IMAGING

PERFORMED BY

Pamela Harrigan,
RDMS

HOSPITAL NAME

Mass Veterinary
Specialty Services

REFERRING VET

Dr. Masloski

INVOICE

20707

DATE

8/24/21

PRESENTING CLINICAL SIGNS

History: Nena was noted to have a heart murmur when she was seen on an emergent basis for bladder stones. She is presently eating a stone dissolution diet. Nena does have some coughing when on a leash but is otherwise doing well. She is eating well and remains active. CV/RESP: NSR, grade III/VI murmur with PMI left apical area, PSS, lung fields clear. BP: 150-160mmHg. *Sedated with propofol.

ECHOCARDIOGRAM FINDINGS

2D, m-mode, color flow and Doppler imaging is available.

Left ventricle: The LV diameter is normal with adequate myocardial function. LV wall thicknesses are normal.

Left atrium: The left atrium is mildly dilated.

Mitral valve: The mitral valve is mildly thickened with minimal prolapse into the left atrial lumen. Mild eccentric mitral regurgitation with a normal velocity.

Aortic valve/aorta: The aortic valve is normal in morphology and mobility. Normal aortic outflow velocity; laminar flow. Mild aortic insufficiency.

Right ventricle: Normal right ventricular diameter and morphology indicating no overt evidence of pulmonary arterial hypertension.

Right atrium: Normal RA dimension.

Tricuspid valve: The tricuspid valve appears mildly thickened with trace tricuspid regurgitation; normal velocity.

Pulmonic valve/pulmonary artery: The pulmonic valve is normal in morphology and mobility. No pulmonic insufficiency. Normal RVOT velocity; laminar flow.

Pericardium/other: No pericardial or pleural effusion noted. No obvious cardiac masses.

Heart rhythm: ECG reveals a sinus rhythm with an average HR of 130bpm.

2-Dimensional Measurements

Ao diam (cm)	1.3
LA diam (cm)	1.7
LA:Ao (Swe)	1.4
IVS thickness (cm)	0.68
LVID diastole (cm)	2.5
PW thickness (cm)	0.71
LVID systole (cm)	1.6
FS (%)	36

Doppler Measurements

PV Vmax (m/s)	0.74
AoV Vmax (m/s)	1.2
MR Vmax (m/s)	5.3
TR Vmax (m/s)	2.3
TR PG (mmHg)	22

INTERPRETATION OF THE FINDINGS

Chronic degenerative valve disease causing mild mitral and trace tricuspid regurgitation. Lack of significant left atrial enlargement indicates the current risk for complication is low. A small aortic leak is noted; however, the baseline BP appears reasonable. No additional issues are noted in this study.

Assessment of progression in the future will help predict long term prognosis, which is highly variable at this stage (B1).



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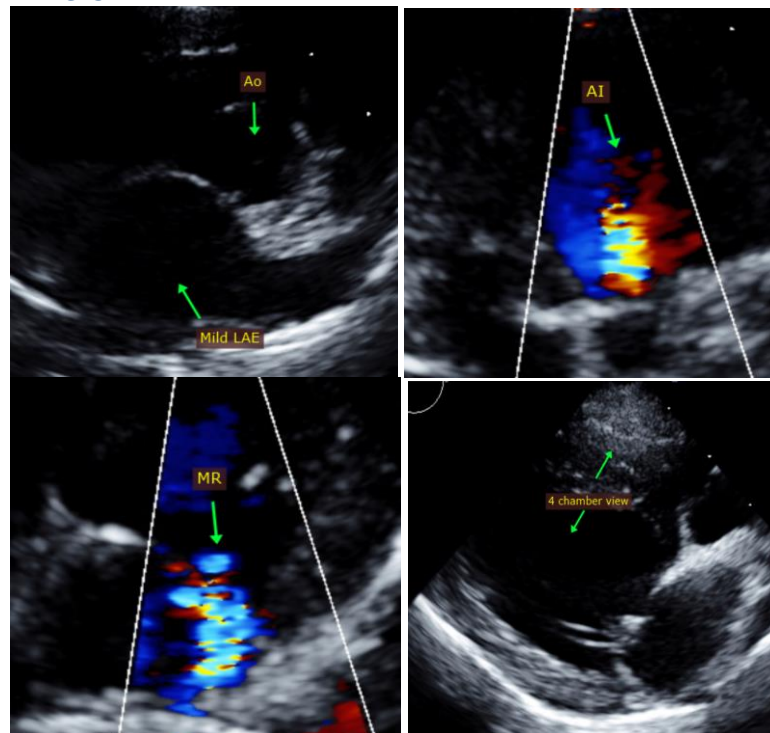
RECOMMENDATIONS

- In an asymptomatic dog without significant left atrial enlargement, no cardiac medications are clearly indicated.
- Omega fatty acid supplementation and mild salt restriction may be of some long-term benefit.
- Anesthetic risk is considered mild if needed. Cardiac protective drug choices (opioid/benzodiazepine premedication, propofol or alfaxalone induction, isoflurane gas) are recommended. Pre-oxygenate for 5-10 minutes prior to induction. Monitor for arrhythmias, hypotension, and hypoxia both intra and post-operatively and intervene as necessary. Mild IV fluid restriction is recommended to avoid fluid overload. Avoid heart rate stimulating drugs such as atropine unless clinically indicated.
- Monitor for development of a cough, labored breathing, exercise intolerance or collapse episodes.

PLAN

- Recommend conservative monitoring with a recheck echocardiogram in 6 months, sooner if any development of clinical signs.

IMAGES





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Nena Colon

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.

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Canine

Thank you for this referral. This report was generated using transcription software, and minor dictation errors may be present. 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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Shih Tzu Mix

Maggie Machen Lamy, DVM
Diplomate of the American College of Veterinary Internal Medicine (Cardiology)
info@sonopath.com

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Echocardiogram performed by: Pamela Harrigan, RDCS
Pet Animal Ultrasound Service (4paus.com)

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