

PATIENT

Honey Yankee
Golden Retriever
Rescue

SPECIES

Canine

BREED

Golden Retriever

SEX

Female Intact

AGE

6 years

WEIGHT

54.6lbs

PRESENTING CLINICAL SIGNS

History: Otherwise healthy dog that a grade IV/VI murmur was noted at time of intake exam to shelter. Echo prior to anesthesia for spay. BP: 133, 134, 136mmHg.

ECHOCARDIOGRAM FINDINGS

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

Left ventricle: The LV diameter is normal with adequate myocardial function. Mild to moderately increased LV wall dimensions. Hyperechoic hypertrophied papillary muscles.

Left atrium: The left atrium is mildly dilated.

Mitral valve: The mitral valve is normal. Trace MR.

Aortic valve/Aorta: The aortic valve is trileaflet yet mildly thickened. Decreased excursion in diastole. Narrowing of the sub-valvular region is consistent with stenosis. Aortic outflow velocity consistent with severe stenosis; mild aortic insufficiency. Significant dilation of the ascending segment.

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 normal with trace tricuspid regurgitation.

Pulmonic valve/Pulmonary artery: The pulmonic valve is normal in morphology and mobility. No pulmonic insufficiency.

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

Heart rhythm: ECG reveals a sinus rhythm with an average HR of 110bpm.

2-Dimensional Measurements

Ao diam (cm)	2.0
LA diam (cm)	1.8
LA:Ao (Swe)	1.4
IVS thickness (cm)	1.3
LVID diastole (cm)	3.3
PW thickness (cm)	1.3
LVID systole (cm)	2.2
FS (%)	32

Doppler Measurements

PV Vmax (m/s)	NM
AoV Vmax (m/s)	6.5
MR Vmax (m/s)	NA
TR Vmax (m/s)	NA
TR PG (mmHg)	NA

INTERPRETED BY

Maggie Machen
Lamy, DVM
DACVIM (Cardiology)

IMAGING

PERFORMED BY

Pamela Harrigan,
RDCS

HOSPITAL NAME

Littleton Animal
Hospital

REFERRING VET

Dr. Brooks

INVOICE

26023

DATE

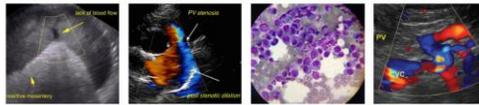
8/25/22

INTERPRETATION OF THE FINDINGS

The cause of the murmur is severe subaortic stenosis (SAS) causing severely elevated blood flow velocity through the LVOT. The valve is also mildly thickened; however, the primary issue appears subvalvular. A small aortic leak is noted, which should be monitored going forward. The LV walls are mild to moderately increased indicating pressure overload of the left heart and the LA is mildly dilated. No additional issues are identified.

No surgical intervention is widely available at this time; however, advanced options could be discussed at an academic institution. Medical management through heart rate control is recommended as below, in hopes of decreasing the obstruction long term.

Prognosis is guarded yet highly variable, with many dogs in the severe category succumbing to malignant arrhythmias by mid-life and others maintaining asymptomatic status long term. Serial echocardiography is recommended lifelong to assess for



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progression and risk for complication. Given that the patient is 6 years old and has not received treatment thus far, this is certainly a good sign.

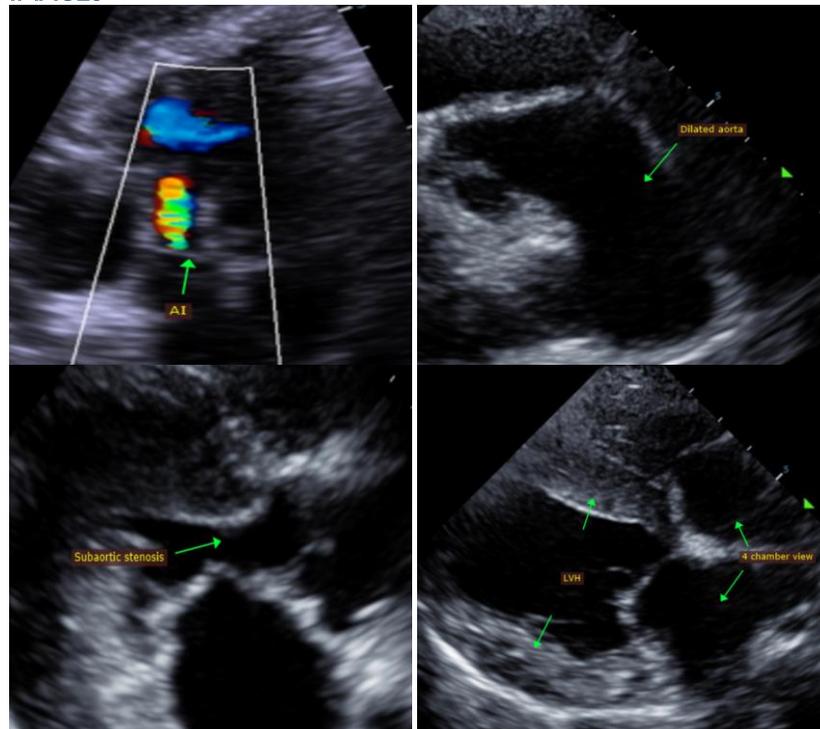
RECOMMENDATIONS

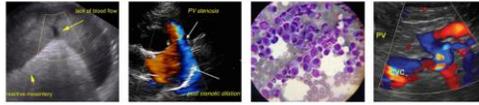
- Institute atenolol to effect: 0.5-1.5mg/kg SID-BID (up-titrate to desired effect). Goal is to suppress heart rate <130bpm even with stress/activity.
- Consider referral as discussed to explore surgical options if desired.
- Omega fatty acid supplementation and mild salt restriction may be of some long term anti-arrhythmic benefit.
- Once Atenolol is initiated, anesthetic risk is mild if needed. Avoid heart rate stimulating drugs such as atropine or glycopyrrolate unless clinically indicated. Avoid ketamine and acepromazine due to systemic vascular effects. Mild IV fluid restriction is advised. Recommend prophylactic antibiotics for any orthopedic or dental procedure in the future predisposition to endocarditis.
- Monitor for development of labored breathing, exercise intolerance or collapse episodes, as AS patients are more predisposed to development of arrhythmias than to CHF.
- Moderate lifelong exercise restriction is advised.

PLAN

- Recommend conservative monitoring with a recheck echocardiogram in 6-12 months, sooner if any development of clinical signs.

IMAGES





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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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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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