



PATIENT

Zippy Bierly

SPECIES

Canine

BREED

Chihuahua

SEX

Spayed Female

AGE

8 Years

WEIGHT

13.6 pounds

INTERPRETED BY

Sara Brethel DVM,
DACVIM (Cardiology)

IMAGING PERFORMED BY

Becca Dohner CVT &
Trish Turner CVT

HOSPITAL NAME

Straley Veterinary
Associates

REFERRING VET

Dr. Jenny Wenrich
DVM

INVOICE

13451

DATE

01/29/26

PRESENTING CLINICAL SIGNS

- 6 month recheck of cardiac ultrasound.
- Patient is currently on Vetmedin bid.
- Owner has recently noticed more changes in breathing.

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	--	NM	2.36	50.69	NM	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	NM	~1.2	~1.0	6.18	3.3	2.9	1.43

Cardiac Presentation

The mitral valve leaflets are moderately thickened with moderate mitral regurgitation posteriorly directed. There is moderate prolapse of the mitral valve leaflets. The left atrial size is severely increased. Left ventricular internal dimensions during diastole are increased and systolic function is preserved in the face of mitral regurgitation. There is normal right atrial size without 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 stage B2.
- Severe left atrial enlargement.

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

The patient has degenerative valve disease, ACVIM stage B2 with severe left atrial enlargement. There has been mild progression in left atrial size when compared to the previous report performed in



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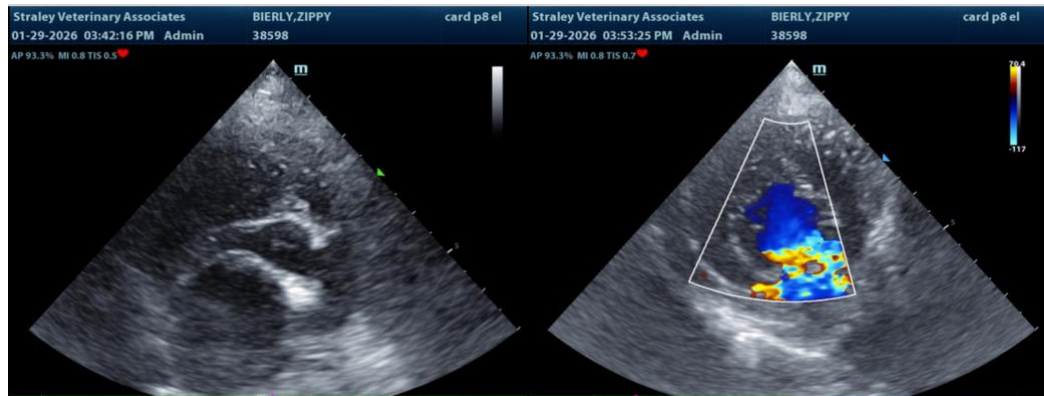
01/29/26

August. With the recently reported changes to breathing, I recommend obtaining chest radiographs. If there is any evidence of cardiogenic pulmonary edema on those chest radiographs, I recommend following ACVIM guidelines for congestive heart failure and initiating diuretic therapy at a dose of 2 mg/kg twice daily.

If the patient is in distress, emergent evaluation is recommended. If the patient is not in congestive heart failure, recheck ECHO is recommended in another 6 months or sooner if the patient is developing other cardiovascular clinical signs.

The client should start monitoring respiratory rate and effort at home if not already doing so. The resting respiratory rate should be < 35-40 breathes/minute when the patient is resting or sleeping. If the breathing rates are increasing, then chest radiographs are recommended.

Recommend obtaining a blood pressure on the patient to ensure it is <160mmHg. If the blood pressure is elevated recommend following ACVIM guidelines for systemic hypertension and treating if indicated.



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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