



PATIENT

Mandi Goodman

SPECIES

Canine

BREED

Chihuahua

SEX

Spayed Female

AGE

7 Years

WEIGHT

3.6 pounds

INTERPRETED BY

Sara Brethel DVM,
DACVIM (Cardiology)

IMAGING PERFORMED BY

Dr. Sorbo

HOSPITAL NAME

JM Pet Resort &
Veterinary Clinic

REFERRING VET

Dr. Sorbo

INVOICE

14460

DATE

03/19/26

PRESENTING CLINICAL SIGNS

- Hx of murmur, rads suggested AV valve-insufficiency 6mo ago and was placed on Vetmedin. I recommended echo.

Abnormal PE/Chem/CBC/UA Results: Tracheomalacia: Cerenia and hycodan. -Grade III/VI systolic murmur PMI LHB. BP: 138mmHG on doppler

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	UE	--	NM	1.58	21.05	--	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	~2.0	~0.6	3.6	1.74	1.9	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 leaflets. The left atrial size is mildly increased. 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 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 trace evidence of pulmonic insufficiency with mild/moderate 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 B2.
- Mild left atrial enlargement.
- Aortic/pulmonic insufficiency.



PATIENT

Mandi Goodman

SPECIES

Canine

BREED

Chihuahua

SEX

Spayed Female

AGE

7 Years

WEIGHT

3.6 pounds

INTERPRETED BY

Sara Brethel DVM,
DACVIM (Cardiology)

IMAGING PERFORMED BY

Dr. Sorbo

HOSPITAL NAME

JM Pet Resort &
Veterinary Clinic

REFERRING VET

Dr. Sorbo

INVOICE

14460

DATE

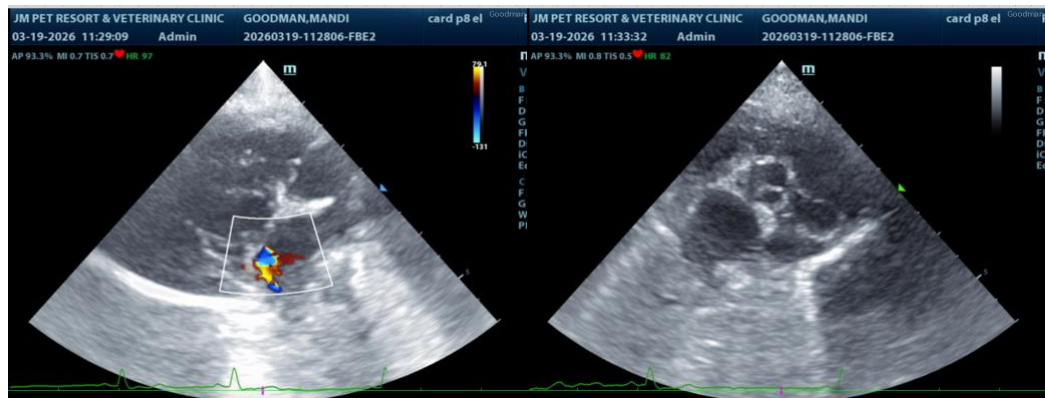
03/19/26

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

The patient has degenerative valve disease ACVIM stage B2. There is mild left atrial enlargement. Recommend continued Vetmedin therapy lifelong at a dose of 0.27 to 0.32 mg/kg. Recheck echo in 10 to 12 months, sooner if the murmur is changing in intensity or the patient's developing cardiovascular clinical signs.

Judicious perioperative fluids are recommended due to the increased left atrial size. Medications like dexmedetomidine and other alpha 2 agonists are best avoided. Ketamine is also best avoided. If needed, anticholinergics can be used in the face of a clinically significant bradyarrhythmia (i.e., bradycardia with concurrent hypotension). If the patient is on an ACEi, recommend not giving this therapy the day of anesthesia.

The reported blood pressure is within normal limits. The aortic insufficiency is likely secondary to degenerative changes to the aortic valve as well, however since the blood pressure is normal, no additional therapies are indicated at this time.



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)

info@SonoPath.com