



PATIENT

Giselle Leister

SPECIES

Canine

BREED

Shih Tzu

SEX

Female Spayed

AGE

11.2 years

WEIGHT

16.3lbs

INTERPRETED BY

Maggie Machen Lamy,
DVM, DACVIM
(Cardiology)

IMAGING PERFORMED BY

Renee Trionfetti, VMD

HOSPITAL NAME

Country Companion
Animal Hospital

REFERRING VET

Dr. Wanner

INVOICE

45764

DATE

11/17/25

PRESENTING CLINICAL SIGNS

History: Recheck echo. Possible heart-based mass on CXR. Hepatomegaly noted. History of seizures; now focal instead of grand-mal, 1-2 times a day. BP: 102, 110mmHg. Chronic grade 4/6 heart murmur. -Current medications: Keppra 500mg TID, Pimobendan 0.3mg/kg PO q12h. Started Lasix. -Pertinent previous echo findings (9/2025 MML): CVD B2. Moderate MR, mild TR, mild PH. Cough and scant pericardial effusion noted. Thoracic CT scan recommended.

ECHOCARDIOGRAM FINDINGS

2D, m-mode, color flow and doppler imaging is available. Diffuse thickening of mitral valve leaflets (anterior>posterior) with mild prolapse into the left atrial lumen. Moderate eccentric mitral regurgitation with moderate left atrial dilation (LA:Ao >1.6). Normal MR velocity. Normal LV diameter with hyperdynamic myocardial function. The tricuspid valve appears mildly thickened with septal prolapse and mild tricuspid regurgitation. Velocity consistent with early pulmonary hypertension. Normal right atrial and ventricular diameter. Early collapse of the right atrial wall suspected. The pulmonic and aortic valves are normal in morphology and mobility. Normal pulmonic and aortic outflow velocities. Mild aortic and no trace pulmonic insufficiency. Small volume pericardial effusion. No cardiac tumors observed.

CARDIAC CHART

CANINE CARDIAC PARAMETERS	MR VMAX (m/s)	TR VMAX (m/s)	LA/AO (Boon method)	LA/AO (Heart Base; Swe)	FS (%)	EF (%)	EPSS (cm)
NORMAL PARAMETER	4.5-5.5	<2.7	1.3	<1.6	28-40	40-100	<0.6
PATIENT	6.0	3.5	1.5	1.8	55	88	0.1
CANINE CARDIAC PARAMETERS	HR (BPM)	AV VMAX (m/s)	PV MAX (m/s)	BODY WEIGHT (kg)	LA 2D short axis Base view (cm)	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	BELOW	BELOW	BELOW	BELOW
PATIENT	160	1.3	1.0	7.4	2.5	3.1	1.2
*Normal chamber parameters expressed as a mean value (SD)				3	1.27 (5.3)	2.46 (2.46)	1.36 (5.5)
BODY WEIGHT DEPENDENT PARAMETERS				5	1.40 (4.5)	2.74 (5.2)	1.60 (4.7)
*Note: All measurements based upon multi-modal images and methods. An average value is reported.				10	1.50 (3.8)	3.27 (3.5)	2.06 (3.1)
				15	1.83 (2.0)	3.71 (2.4)	2.43 (2.1)
				20	2.02 (1.9)	4.14 (2.2)	2.80 (2.0)
				25	2.18 (2.4)	4.48 (2.9)	3.10 (2.5)
				30	2.33 (3.3)	4.83 (3.9)	3.39 (3.4)
				35	2.48 (4.3)	5.17 (5.0)	3.69 (4.5)
				40	2.62 (5.2)	5.48 (6.1)	3.96 (5.4)
				50	2.88 (7.1)	6.07 (8.3)	4.46 (7.4)

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Compared to the prior study, the most significant change is the pericardial effusion has increased in quantity. There is not clear evidence of cardiac tamponade; however, this may develop in the future. No obvious intra or extra-cardiac tumors are visualized; however, it must be noted that image acuity is lacking in this case as was noted previously, and it is certainly possible that a mass was simply not visualized. The valve disease is similar to previous with mild pulmonary hypertension and mild right-sided enlargement.



PATIENT

Giselle Leister

SPECIES

Canine

BREED

Shih Tzu

SEX

Female Spayed

AGE

11.2 years

WEIGHT

16.3lbs

INTERPRETED BY

Maggie Machen Lamy,
DVM, DACVIM
(Cardiology)

IMAGING PERFORMED BY

Renee Trionfetti, VMD

HOSPITAL NAME

Country Companion
Animal Hospital

REFERRING VET

Dr. Wanner

INVOICE

45764

DATE

11/17/25

As discussed in the prior report, pericardial effusion in this breed is quite atypical. Highly recommend advanced workup in this case, such as a thoracic CT scan, fluid sampling if able, and further evaluation. Even if an extra-cardiac mass is not present, the pericardial effusion may be due to decreased venous return leading to right-sided CHF. **An alternative mass origin such as the vena cava should also be considered given the breed.** This is speculative, as a small tumor bleed cannot be ruled out; however, is less likely with this unusual history. If further workup is declined, consider full cardiac support to assess for any improvement at home if right-sided CHF/congestion is the cause. **Seizure-like activity is likely secondary to whatever is the primary issue in this case, which has not been determined.**

Continuing Pimobendan is recommended as well with recommendations as below. Prognosis is guarded to poor as if further workup is declined and QOL suffers, euthanasia may have to be elected.

Omega fatty acid supplementation and mild salt restriction may also be of some long-term benefit. Monitor for development of a progressive cough, labored breathing, exercise intolerance or collapse episodes.

Anesthesia is not advised at this time.

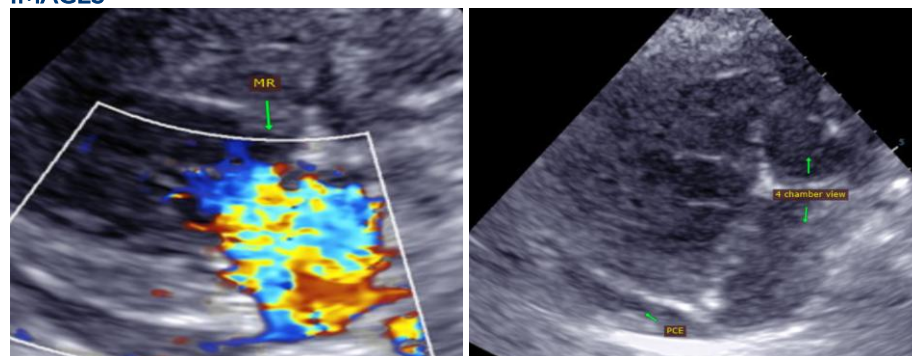
PLAN

Continue Pimobendan 0.3mg/kg PO q12h. Consider advanced imaging in this case and further workup. This includes but is not limited to a thoracic CT scan, fluid sampling if able and full systemic workup pending AUS results. If declined, continue Lasix 1-2mg/kg PO q12h and institute Spironolactone 1-2mg/kg PO q12h.

Monitor renal values and BP in 1-2 weeks. If possible, reassessing fluid status is recommended at this time to understand response to diuretic.

Recommend monitor for progression with a recheck echocardiogram in 6 months, sooner if any development of additional clinical signs in the interim.

IMAGES





PATIENT

Giselle Leister

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.

SPECIES

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.

BREED

Shih Tzu

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

SEX

Female Spayed

AGE

11.2 years

WEIGHT

16.3lbs

INTERPRETED BY

Maggie Machen Lamy,
DVM, DACVIM
(Cardiology)

IMAGING PERFORMED BY

Renee Trionfetti, VMD

HOSPITAL NAME

Country Companion
Animal Hospital

REFERRING VET

Dr. Wanner

INVOICE

45764

DATE

11/17/25