

PATIENT

Hamlet Tosh

SPECIES

Canine

BREED

Chihuahua

SEX

Neutered male

AGE

11 years

WEIGHT

11.5 lbs

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Julie McGhan, DVM

HOSPITAL NAME

Haven AH

REFERRING VET

Dr. McGhan

INVOICE

74150

DATE

4/3/26

PRESENTING CLINICAL SIGNS

- Being seen here since August for a cough. rDVM put P on enalapril and lasix for a cough in March. No murmur noted, per rDVM rads showed cardiomegaly
- September 2025, grade 4 murmur noted, then grade 3 in October, and has not been heard since.
- February 2026, repeat rads with 12.75 VHS.
- Cough does improve with Prednisone.
- Diffuse dental disease, otherwise WNL

ULTRASONOGRAPHIC EXAMINATION OF THE HEART

The echocardiogram in this patient demonstrated normal **left atrial** size based on 3 different LA measurement methods. Chamber volumes and echogenicity were normal. The cranial and caudal **mitral** valve leaflets presented vegetative thickening consistent with endocardiosis. Doppler indicated trivial insufficiency. The **left ventricle** presented thicknesses with linear contour and was not dilated nor restricted. The **myocardium** presented normal echogenicity without subjective evidence of significant fibrotic or ischemic disease. **Contractility** of the ventricular walls was adequate and in normal range for this patient evidenced by the fractional shortening measurement and subjective evaluation of the different regions of the myocardium. The **left ventricular outflow** tract demonstrated normal laminar flow and subjective structural integrity. The **right atrium** and auricle revealed normal size, structure and content. No evidence of masses was noted or chamber overload. **Tricuspid** valvular assessment demonstrated adequate linear morphology. The **right ventricle** was of normal size (1/3 diameter of LV), chordae structure, myocardial echogenicity and thickness. **Pulmonic** tract assessment revealed normal valve structure, laminar flow, and diameter (approx. 1:1 pa/ao ratio). No visible **pericardial** or free pleura fluid was noted. No echographically detectable evidence of infiltrative disease was visible. The cranial **mediastinum and pericardial regions** were free of masses in the visible window.

E Wave Velocity 0.7

CANINE CARDIAC PARAMETERS	MR VMAX (m/s)	TR VMAX (m/s)	LA/AO	LA/AO (Heart Base)	FS (%)	EF (%)	EPSS (cm)
NORMAL PARAMETER	4.5-5.5	<2.7	1.3	<1.6	28-40	40-100	<0.6
PATIENT	NM	NM	1.13	1.03	34	65	NM
CANINE CARDIAC PARAMETERS	HR (BPM)	AV VMAX (m/s)	PV MAX (m/s)	BODY WEIGHT	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	75	NM	NM	11.5 lbs	2.0	2.1	



PATIENT

Hamlet Tosh

SPECIES

Canine

BREED

Chihuahua

SEX

Neutered male

AGE

11 years

WEIGHT

11.5 lbs

INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Julie McGhan, DVM

HOSPITAL NAME

Haven AH

REFERRING VET

Dr. McGhan

INVOICE

74150

DATE

4/3/26

ULTRASONOGRAPHIC FINDINGS

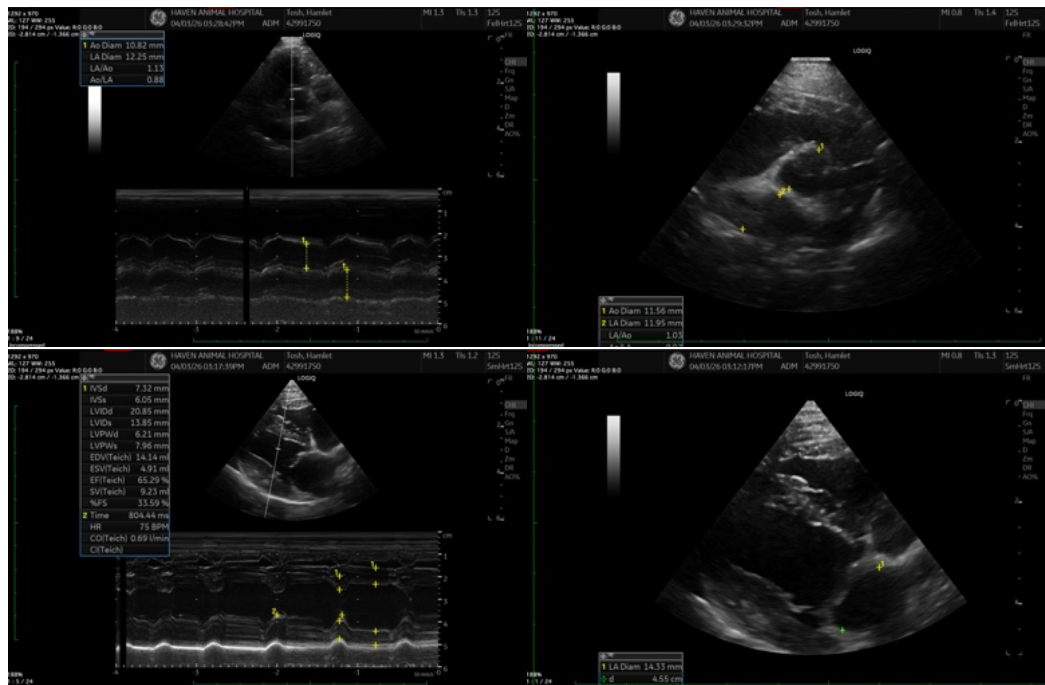
Stage B1 valvular disease.

Minor centralized mitral insufficiency.

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

There was no evidence of volume overload or pressure overload.

The heart is stable without clinical disease. No overt contraindication for anesthesia of brief to moderate duration. I suggest Torbutrol premed, Propofol induction, Isoflor maintenance or similar protocol if anesthesia is desired. Blood pressure recommended if not already performed and target white coat negative systolic pressure of < 160 mmHg. If higher than this ACE-inhibitor is suggested to reach this level. Recheck echocardiogram is recommended in 6 months, earlier if murmur grade increases or clinical signs initiate.





PATIENT

Hamlet Tosh

SPECIES

Canine

BREED

Chihuahua

SEX

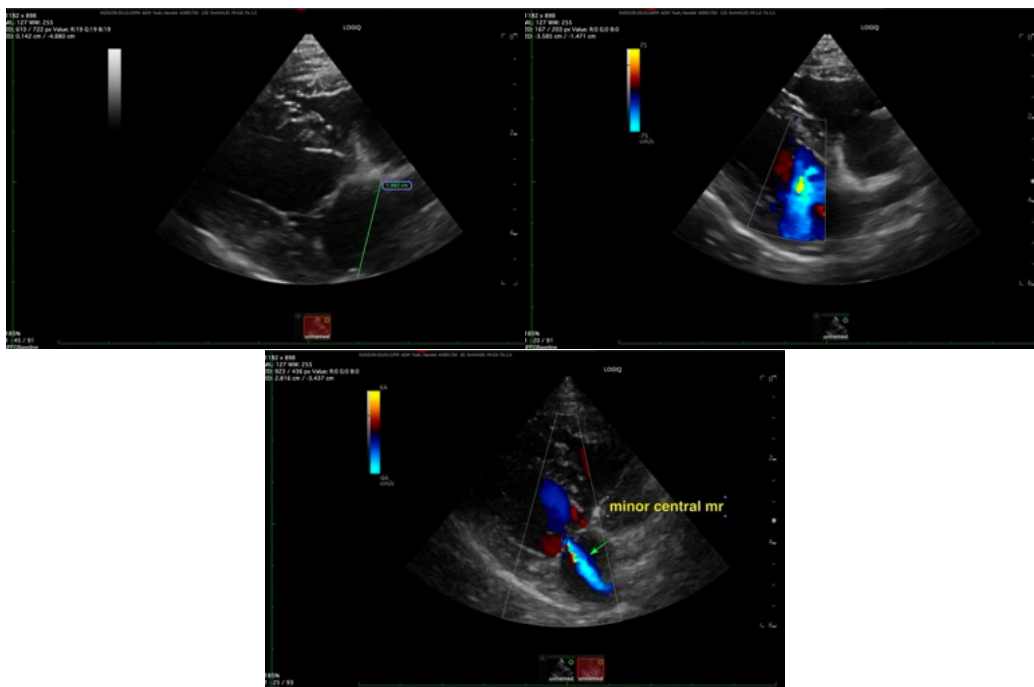
Neutered male

AGE

11 years

WEIGHT

11.5 lbs



INTERPRETED BY

Eric Lindquist, DMV
DABVP, Cert. IVUSS

IMAGING PERFORMED BY

Julie McGhan, DVM

HOSPITAL NAME

Haven AH

REFERRING VET

Dr. McGhan

INVOICE

74150

DATE

4/3/26

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.

Eric Lindquist, DMV, DABVP (CFM), Cert. IVUSS, CEO of SonoPath.com

info@SonoPath.com