



PATIENT

Cookie Conforti

SPECIES

Canine

BREED

Shih Tzu

SEX

FS

AGE

14 y

WEIGHT

8.68

INTERPRETED BY

R. McKenzie Daniel,
DVM, DABVP
(Canine and Feline)

IMAGING PERFORMED BY

Mavis McCormick

HOSPITAL NAME

Lanier AH

REFERRING VET

Mavis McCormick

INVOICE

14873

DATE

8/22/23

PRESENTING CLINICAL SIGNS

Cookie has been fasted this am; usually doesn't eat until about 1 PM. Has been eating/drinking fine. Owners think that she has dementia which is why she presented a few weeks ago for restlessness/agitation. Is on Melatonin now and Trazodone at night mostly; has been getting Rimadyl and Gabapetin for possible back pain/osteoarthritis; vomited one time yesterday bile w/ a lot of blood. Started on Sucralfate and Cerenia; discontinued the Rimadyl. Several weeks ago when in for the restlessness the heart murmur was found - grade IV-V/VI

Abnormal PE/Chem/CBC/UA Results: BW done on 8/5/23 cbc wnl/nsf chem: wnl/nsf T4 wnl

ULTRASONOGRAPHIC EXAMINATION OF THE HEART & ABDOMEN

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	<1.3	28-40	40-100	<0.6
PATIENT				1.4	41	74	0.15
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				
PATIENT	NM				2.3	2.4	

Cardiac Presentation

The echocardiogram in this patient demonstrated normal **left atrial** size based on 2 different LA measurement methods. Chamber volumes and echogenicity were normal. The cranial and caudal **mitral** valve leaflets presented mild to moderate subjective thickening consistent with endocardiosis. Doppler indicated evidence of eccentric MR. 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 subjective mild thickening with possible mild TR on Doppler. 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



PATIENT	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.
Cookie Conforti	
SPECIES	Urinary System
Canine	The urinary bladder, trigone, cystourethral junction, and visible pelvic urethra to a depth of 3.0 cm exhibited normal thickness and tone. Anechoic urine was present in the lumen with no uroliths or sediment. The ureteral papillae were normal. The ureters were not visible which is normal. No evidence of inflammatory or neoplastic changes was noted.
BREED	
Shih Tzu	No evidence of pathology in the area of the aortic trifurcation.
SEX	Normal size and margination were present in the kidneys. A normal 1:3 cortex / medulla ratio was maintained. The medulla and cortices were uniform in texture with some increased echogenicity and mild loss of corticomedullary symmetry and definition expected for the age of the patient. No evidence of pelvic dilation was present. The left kidney measured 3.2 cm in length. The right kidney measured 3.4 cm in length.
FS	
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WEIGHT	Adrenal Glands
8.68	The left adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The left adrenal gland measured 0.46 cm width at the caudal pole and 0.41 cm width at the cranial pole. The right adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The right adrenal gland measured 0.54 cm width at the caudal pole and 0.54 cm width at the cranial pole.
INTERPRETED BY	Spleen
R. McKenzie Daniel, DVM, DABVP (Canine and Feline)	The spleen exhibited a finely textured and homogenous parenchyma which was hyperechoic to the liver and renal cortical parenchyma. The capsule was smooth and regular without apparent expansion. The splenic vasculature at the hilus was normal in volume with no evidence of congestion or thrombosis. Acute to chronic inflammatory, neoplastic, or benign parenchyma changes were not noted.
IMAGING PERFORMED BY	Liver/ Gallbladder
Mavis McCormick	The liver was subjectively normal in size, structure, and contour. The liver parenchyma was uniform and hypoechoic to the spleen with a mild coarse echotexture. The hepatic and portal vasculature were normal in appearance without signs of congestion. The gallbladder was non-distended in size containing primarily anechoic content with mild gallbladder sediment. The cystic and common bile ducts were normal.
HOSPITAL NAME	Gastrointestinal
Lanier AH	The stomach presented intact wall layering with a normal wall layer ratio. The lumen of the stomach was empty with no signs of ileus, obstruction, or foreign material.
REFERRING VET	
Mavis McCormick	The small intestine presented intact wall layering with 1:3 muscularis/mucosa ratio. The lumen of the small intestine was empty with no signs of ileus, obstruction, or foreign material.
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14873	Normal visible colon wall layers were present with apparent formed feces in lumen.
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Pancreas

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The parenchyma of the left limb, body, and right limb of the pancreas presented isoechoic to the adjacent omental fat. A normal curvilinear capsule contour of the pancreas was present. The visible pancreatic duct was normal. No signs of active inflammation or neoplastic disease were evident.

SPECIES

Canine

Free Abdomen

BREED

No overt lymphadenopathy or peritoneal effusion was present.

Shih Tzu

ULTRASONOGRAPHIC FINDINGS

SEX

- Overtly normal cardiac structure and function

FS

- Mild to moderate thickened mitral valve with subjective eccentric MR - consistent with compensated chronic mitral valve disease (ACVIM B1)

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- Suspect mild TR - no evidence of clinical pulmonary hypertension

- Mild chronic renal changes

WEIGHT

8.68

- Mild gallbladder sediment

- Overtly normal gastrointestinal tract

INTERPRETED BY

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(Canine and Feline)

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

The lack of LA enlargement indicates that the current and future risk of complications secondary to subjective MR is low. Regardless of murmur origin, in a nonclinical patient without evidence of significant chamber enlargement, there is no indication for cardiac medications. Conservative monitoring of the murmur is recommended, although prognosis is considered variable. Echocardiographic reassessment is recommended in 6 months, sooner if murmur intensity increases, or if clinical signs consistent with heart disease arise.

IMAGING PERFORMED BY

Mavis McCormick

There is no evidence of overt abdominal pathology.

HOSPITAL NAME

Lanier AH

Mild gastritis or less likely nonobvious gastric ulcer, given patient history, is possible. As-needed gastrointestinal support including gastroprotectant protocol would be reasonable. There is no evidence of intrabdominal neoplastic criteria.

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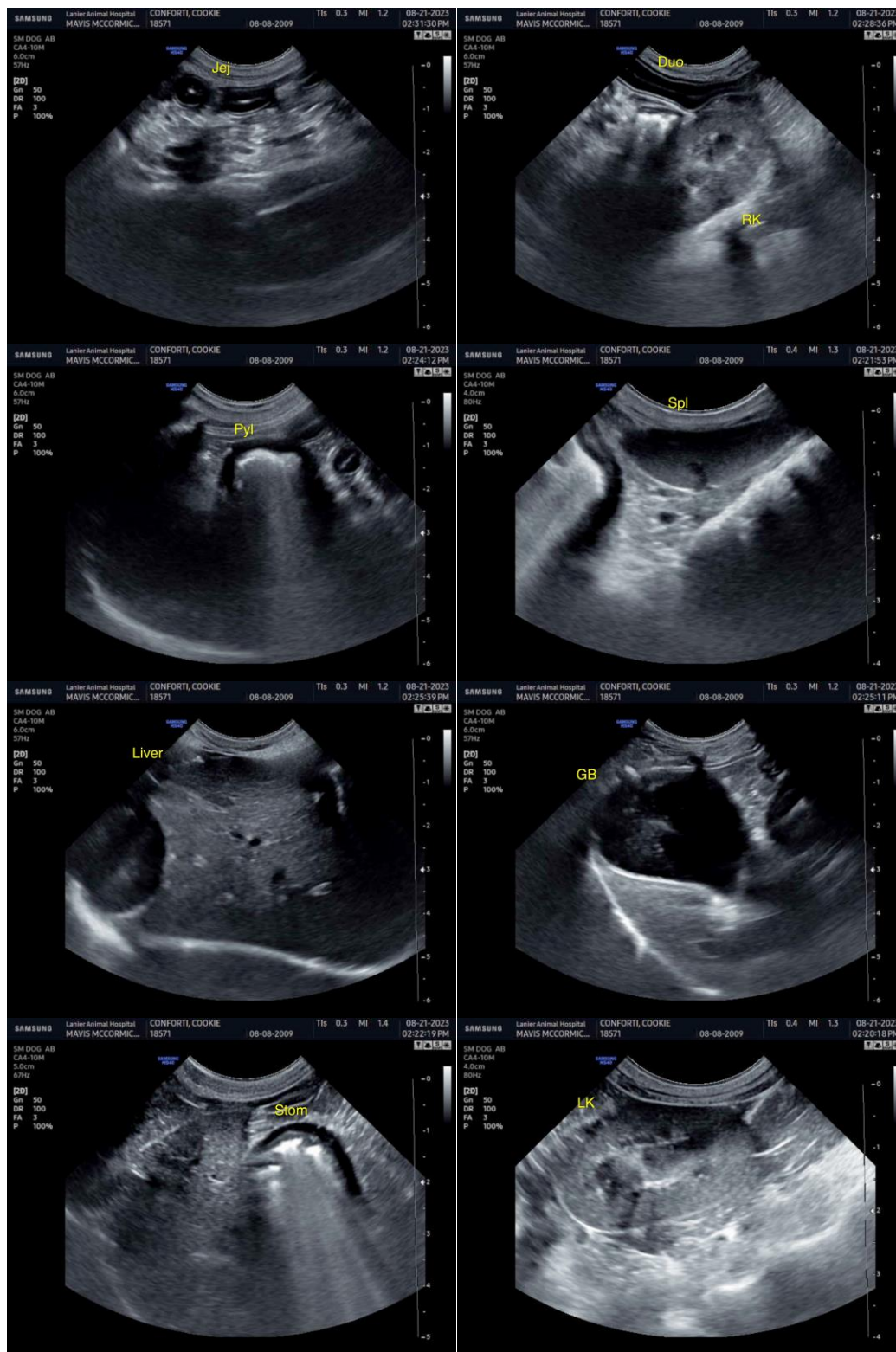
Mavis McCormick

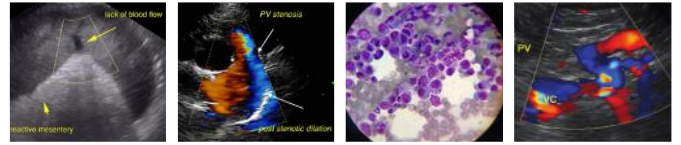
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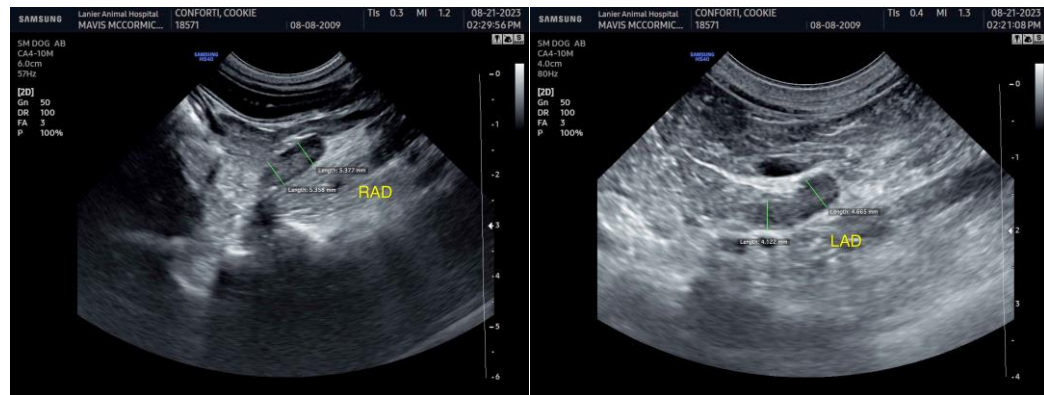
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.

R. McKenzie Daniel, DVM, DABVP (Canine/Feline Practice)
info@sonopath.com