PATIENT

Tucker Delaney

SPECIES

Canine

BREED

Golden Ret

SEX

Male

AGE

5 years 2 months

WEIGHT

84.8

INTERPRETED BY

Bradley Harris, DVM, DACVECC, DACVIM (cardiology)

IMAGING PERFORMED BY

Vincent Ravancho, CVT

HOSPITAL NAME

Marsh Animal Hospital

REFERRING VET

Dr. Megan Armani

INVOICE

11582

DATE

3/30/2026

PRESENTING CLINICAL SIGNS

- Hx of Bilious Vomiting despite being fed every couple of hours.
- Current Medications - Omeprazole Maropitant.

ULTRASONOGRAPHIC EXAMINATION OF THE HEART

CANINE CARDIAC PARAMETERS	BW	HR BPM	LAD 4 ch Long	RAD 4 ch Long	La/Ao Heart Base	LVIDd	LVIDs
NORMAL PARAMETER		50-100			<1.6		
PATIENT	38.55 kg	110	3.77	3.06	0.97	2.90	2.53
CANINE CARDIAC PARAMETERS	**FS**	**EPSS**	**PV V MAX (m/s)**	**AV V Max (m/sec)**	**MR Vmax**	**TR Vmax**	**RPA distensibility (normal >30%)**
NORMAL PARAMETER	28-40	<0.6	0.7-1.6	0.7-1.7	4.5-5.5	< 2.7	
PATIENT	35	0.3	1.0	2.3	NM	2.7	39

Cardiac Presentation

The left atrium is normal in dimension. The left ventricle is normal in dimension with normal systolic function. The right atrium and ventricle are normal in dimension with normal systolic function. The anterior and posterior mitral valve leaflets are appropriately thin with adequate apposition and intact chordae, and there is no significant prolapse. There is no significant mitral regurgitation identified. The tricuspid valve leaflets are appropriately thin with adequate apposition and intact chordae, with trivial tricuspid regurgitation and no evidence of pulmonary hypertension. The left ventricular outflow tract demonstrated normal laminar flow and the visible aorta is unremarkable. The right ventricular outflow tract assessment revealed normal laminar flow with appropriate main pulmonary artery diameter and right pulmonary artery distensibility. There is no pulmonic and no aortic valve insufficiency identified. There is no visible pericardial, pleural, or free peritoneal fluid documented. No evidence of hepatic venous congestion is noted. The cardiac chambers, pericardial, and visible extra-cardiac regions were free of masses, spontaneous echo contrast, or thrombi.

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Urinary System

The urinary bladder, trigone, and pelvic urethra are unremarkable with normal wall thicknesses and normal tone. The ureters were not visualized, which is a normal finding. There are no uroliths or sediment noted, and anechoic urine is present. The ureteral papillae appear normal. There is no evidence of inflammatory, infiltrative, or neoplastic disease.

The kidneys are normal in size and structure, with appropriate corticomedullary definition and cortex to medulla ratio. The cortices are uniform in texture with normal echogenic relationship to liver and

PATIENT

Tucker Delaney

SPECIES

Canine

BREED

Golden Ret

SEX

Male

AGE

5 years 2 months

WEIGHT

84.8

INTERPRETED BY

Bradley Harris, DVM, DACVECC, DACVIM (cardiology)

IMAGING PERFORMED BY

Vincent Ravancho, CVT

HOSPITAL NAME

Marsh Animal Hospital

REFERRING VET

Dr. Megan Armani

INVOICE

11582

DATE

3/30/2026

spleen. The medullary structure differed distinctly from the cortex and no evidence of pyelectasis is present. The capsules are uniform without significant irregularities noted. Left kidney measures 5.47 cm, and the right kidney measures 5.78 cm.

Adrenal Glands

Both adrenal glands are visualized and have normal shape, size, position and echogenicity for this breed. The phrenic vasculature, glandular echogenicity and detail were unremarkable. Capsule, cortex, and medullary definition were normal for this age patient. Left adrenal measures 0.64 cm x 2.08 cm, and the right adrenal measures 0.69 cm x 2.03 cm.

Spleen

The spleen is smooth with homogeneous parenchyma and hyperechoic to liver and renal cortical parenchyma. The capsule is without noticeable irregularity or deformation. The splenic vasculature is normal without signs of congestion, spontaneous echo contrast, or thrombosis. No evidence of acute or chronic inflammatory, neoplastic, or infarct are documented. The spleen measures 2.0 cm at the hilus.

Liver

The liver is subjectively normal liver size, contour, and structure. Parenchymal echogenicity is naturally coarse and hypoechoic to the spleen. Vasculature is within normal limits with no evidence of congestion. The gallbladder has thin walls which contain anechoic bile. There is no evidence of intra- or extra-hepatic biliary dilation. The cystic and common bile ducts were normal. No hepatic lymphadenopathy is documented. There is no overt structural evidence of inflammatory, infiltrative or regenerative pathology evident.

Gastrointestinal

The stomach contains a mild amount of gas and echogenic ingesta. The pylorus and pyloroduodenal junction appear patent and there's no overt evidence of pyloric outflow obstruction identified. Although, an occult outflow tract obstruction can't be definitively excluded on this study. The small intestine is minimally distended with echogenic ingesta. There's no shadowing foreign material or indication of a mechanical small intestinal obstruction. The gastrointestinal walls are normal in thickness with maintenance of normal wall layering. The colon contains normal shadowing feces.

Pancreas

The base and limbs of the pancreas are isoechoic to surrounding omental fat. The pancreatic duct and capsular contour are normal. There is no overt evidence of active inflammatory or neoplastic disease.

ULTRASONOGRAPHIC FINDINGS

- These findings are consistent with an essentially normal echocardiogram. Any murmur will be considered functional in origin. No cardiac cause of the morbidity is identified.
- There's a minimal amount of gastric contents which likely represents normal ingesta. However, an occult pyloric outflow obstruction with gastric foreign material can't be definitively excluded. There's no overt etiology of the clinical signs noted on the current study. However, occult pancreatitis also cannot be definitively ruled out ultrasonographically.

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

PATIENT

Tucker Delaney

SPECIES

Canine

BREED

Golden Ret

SEX

Male

AGE

5 years 2 months

WEIGHT

84.8

INTERPRETED BY

Bradley Harris, DVM, DACVECC, DACVIM (cardiology)

IMAGING PERFORMED BY

Vincent Ravancho, CVT

HOSPITAL NAME

Marsh Animal Hospital

REFERRING VET

Dr. Megan Armani

INVOICE

11582

DATE

3/30/2026

Given these findings, no cardiac therapy is recommended. There are no cardiac contraindications to fluid therapy or corticosteroid therapy, as indicated for further assessment and treatment. No specific cardiac recheck is recommended unless a murmur or clinical signs of heart disease develop.

Anesthesia considerations:
No special considerations are necessary.

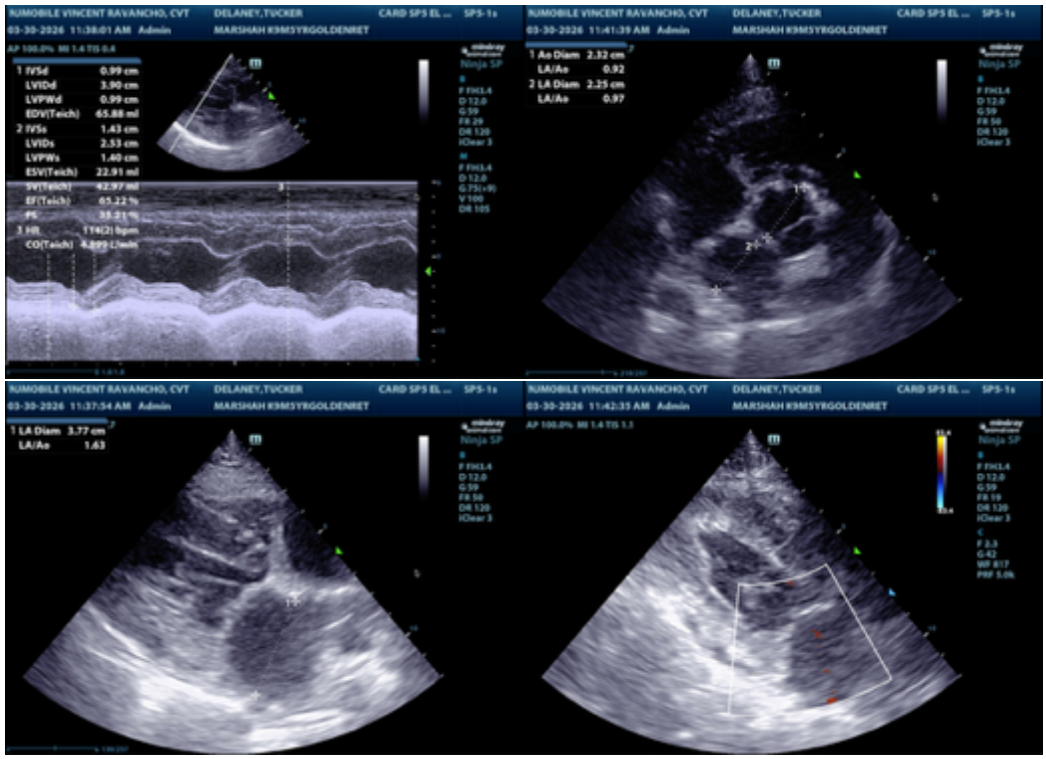
Diet:
No special considerations are necessary. Any high-quality food from Hills, Royal Canin, Science Diet, Eukanuba, Iams, or Purina is reasonable.

Activity:
No special considerations are necessary.

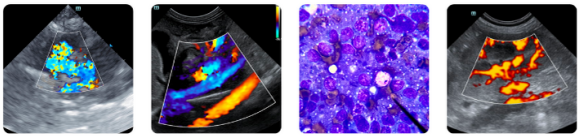
A gastrointestinal panel (TLI, PLI, B12, folate) via Texas A&M gastrointestinal laboratory is indicated to further evaluate for potential chronic enteropathy. Ultimately, gastrointestinal biopsies may be required for a definitive diagnosis.

Abdominal radiographs are recommended to further evaluate the gastric contents.

A CPLI is indicated to further evaluate the pancreas for potential inflammation or pancreatitis. Consider hospitalization with IV fluids and supportive care for repeated fasted serial imaging to evaluate gastric motility and emptying.



New Jersey Mobile
FUELED BY SONOPATH VETERINARY ULTRASOUND



Clinical Sonography & Telecytology
Educational Teleconsultation Services™

SonoPath
FOSTERING THE ART OF VETERINARY MEDICINE™
www.SonoPath.com
info@sonopath.com 800.838.4268

PATIENT

Tucker Delaney

SPECIES

Canine

BREED

Golden Ret

SEX

Male

AGE

5 years 2 months

WEIGHT

84.8

INTERPRETED BY

Bradley Harris, DVM, DACVECC, DACVIM (cardiology)

IMAGING PERFORMED BY

Vincent Ravancho, CVT

HOSPITAL NAME

Marsh Animal Hospital

REFERRING VET

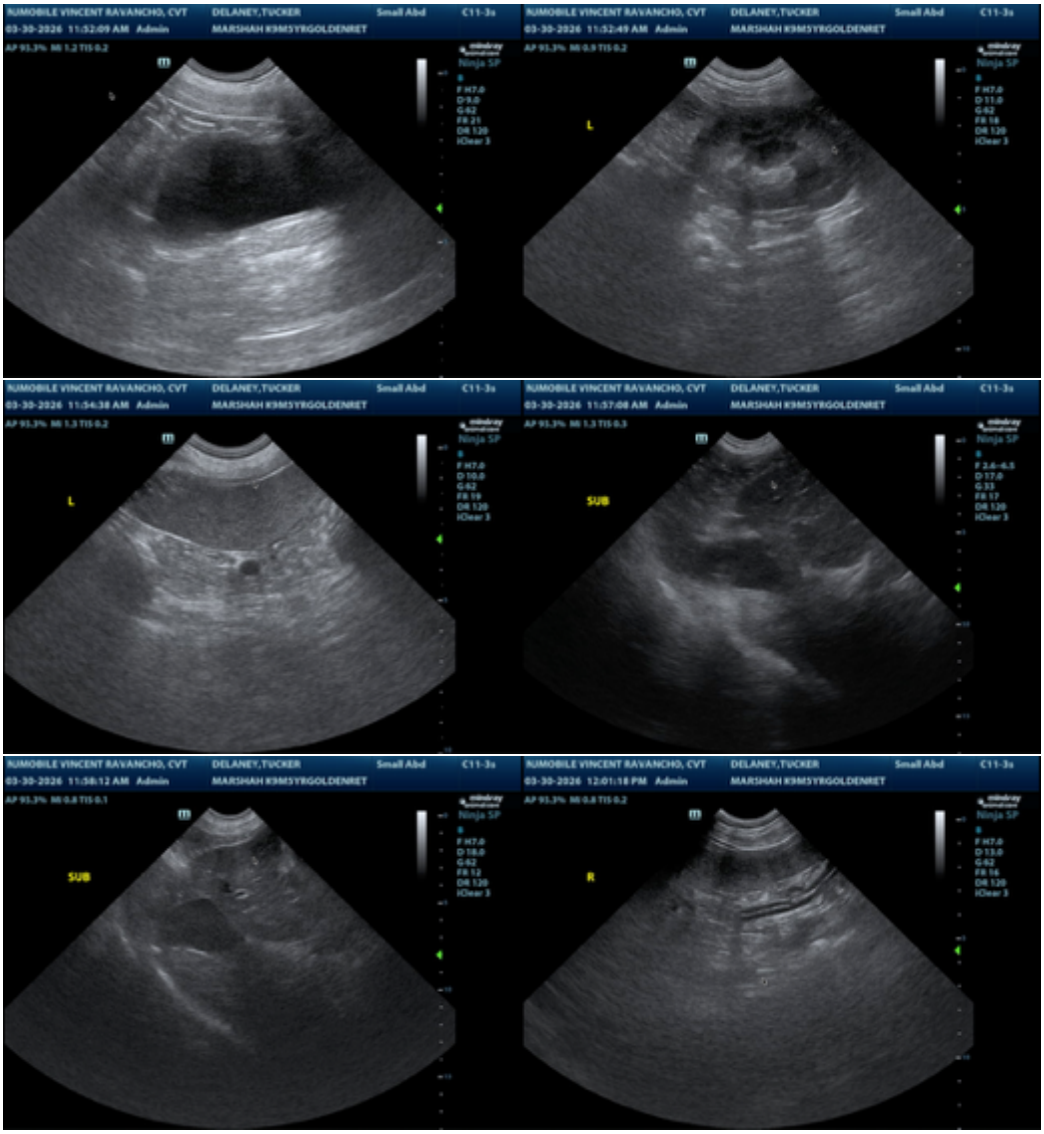
Dr. Megan Armani

INVOICE

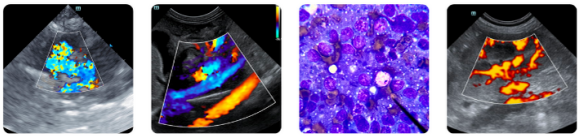
11582

DATE

3/30/2026



New Jersey Mobile
FUELED BY SONOPATH VETERINARY ULTRASOUND



Clinical Sonography & Telecytology
Educational Teleconsultation Services™

SonoPath
FOSTERING THE ART OF VETERINARY MEDICINE™
www.SonoPath.com
info@sonopath.com 800.838.4268

PATIENT

Tucker Delaney

SPECIES

Canine

BREED

Golden Ret

SEX

Male

AGE

5 years 2 months

WEIGHT

84.8

INTERPRETED BY

Bradley Harris, DVM, DACVECC, DACVIM (cardiology)

IMAGING PERFORMED BY

Vincent Ravancho, CVT

HOSPITAL NAME

Marsh Animal Hospital

REFERRING VET

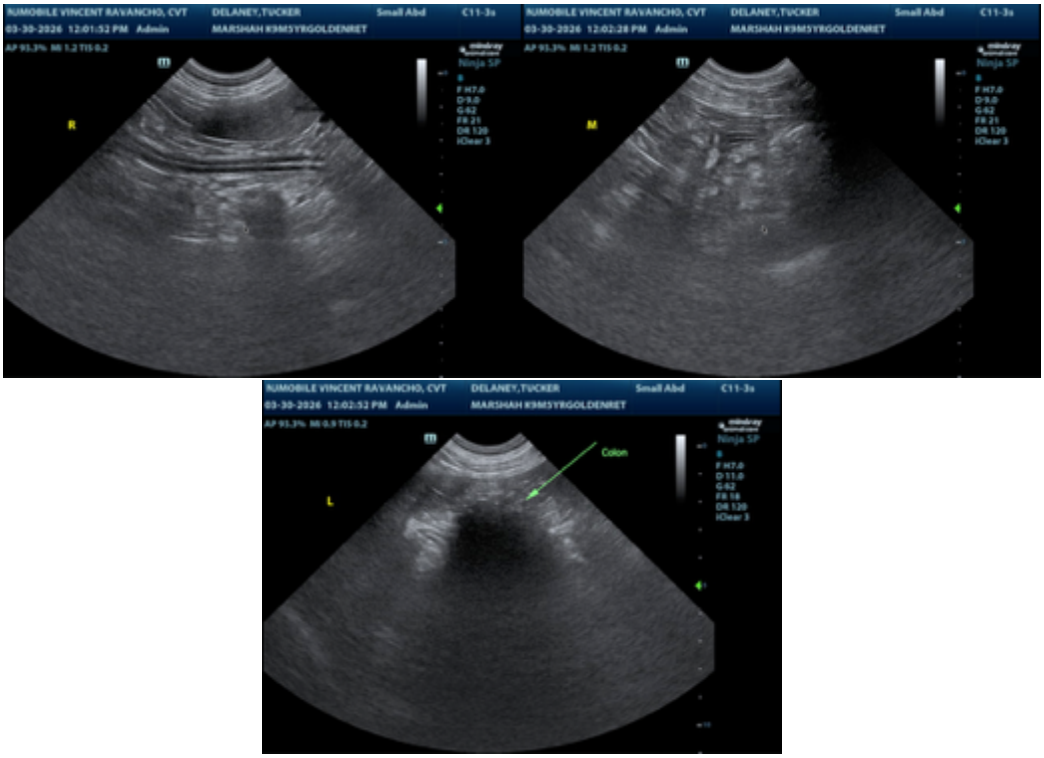
Dr. Megan Armani

INVOICE

11582

DATE

3/30/2026



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.

Bradley Harris, DVM, DACVECC, DACVIM (cardiology)

info@SonoPath.com