



PATIENT	PRESENTING CLINICAL SIGNS
Scruffy Castrillon	Patient presents for hepatopathy. Current meds: Azodyl - natural liver support (Vetris Liver Chews). Abnormal PE/Chem/CBC/UA Results: ALT 267, BUN 86, SDMA 22. U/A: trace protein, USG 1.028.
SPECIES	ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN
Canine	Urinary System
BREED	The urinary bladder, trigone, and cystourethral junction 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.
Yorkiepool	The area of the residual prostate was free of overt pathology.
SEX	The area of the aortic trifurcation was free of pathology.
MN	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 to moderate loss of corticomedullary border demarcation expected for the age of the patient. Small cortical cysts were present in both kidneys. No evidence of pelvic dilation was present. The left kidney measured 3.3 cm in length. The right kidney measured 3.4 cm in length.
AGE	
14 years	
WEIGHT	
10 lbs	
INTERPRETED BY	Adrenal Glands
R. McKenzie Daniel, DVM, DABVP (Canine and Feline)	The bilateral adrenal glands were normal in size. Mild parenchyma heterogeneity and mild capsule asymmetry was present without suspicion for overt neoplasia. The left adrenal gland measured 1.5 cm length x 0.37 cm width in the caudal pole. The right adrenal gland measured 1.4 cm length x 0.69 cm width in the caudal pole.
IMAGING PERFORMED BY	Spleen
Kelly Vazquez	The spleen exhibited primarily finely textured parenchyma which was hyperechoic to the liver and renal cortical parenchyma. Mild generalized parenchyma heterogeneity was present without evidence of nodular changes. 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. The parenchymal heterogeneity is likely consistent with benign changes such as extramedullary hematopoiesis or age-related remodeling with minor potential for inflammatory or neoplastic disease.
HOSPITAL NAME	Liver/ Gallbladder
Legacy AH	The liver exhibited mild enlargement with normal structure and contour. The liver parenchyma was mildly nonuniform and hypoechoic to the spleen with a moderate coarse echotexture and subjective mild to benign parenchymal remodeling. The hepatic and portal vasculature were normal in appearance without signs of congestion. The gallbladder was non-distended in size with thin walls and primarily anechoic luminal content. The cystic and common bile ducts were normal.
REFERRING VET	
Dr. Kristin Pontenzone	
INVOICE	
13148	
DATE	Gastrointestinal
1/25/22	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.



PATIENT

Scruffy Castrillon

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.

SPECIES

Canine

Normal visible colon wall layers were present with apparent formed feces in lumen.

BREED

Yorkiepool

Pancreas

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.

SEX

MN

Free Abdomen

No overt lymphadenopathy or peritoneal effusion was present.

AGE

14 years

ULTRASONOGRAPHIC FINDINGS

Primary Findings

- Chronic hepatopathy exhibiting parenchymal remodeling - subjectively benign
- Sonographically unremarkable gallbladder
- Mild to moderate chronic renal changes with small cortical cysts

WEIGHT

10 lbs

INTERPRETED BY

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

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

The overall appearance of the liver was nonspecific yet most consistent with chronic benign hepatopathy. Chronic low-grade inflammatory hepatopathy or hepatobiliary disease, given the ALT elevation, is suspected with concurrent parenchymal remodeling. Nonspecific low-grade hepatitis (immune-mediated or other), suspected.

IMAGING PERFORMED BY

Kelly Vazquez

Assuming normal clotting status, ultrasound-guided FNA of the liver using a 25-gauge needle could be considered for screening cytology, primarily to assess for evidence of inflammatory cells. No overt evidence of a portosystemic vascular anomaly was noted. Hepatic functionality is likely normal assuming normal BUN, glucose, albumin, and cholesterol levels. Continued hepatosupportive medications including Ursodiol, due to its antioxidant and immunomodulatory effects within the liver, may prove beneficial. Further renal staging to include urine C/S and protein: creatinine ratio on sterile urine sample may be considered.

HOSPITAL NAME

Legacy AH

REFERRING VET

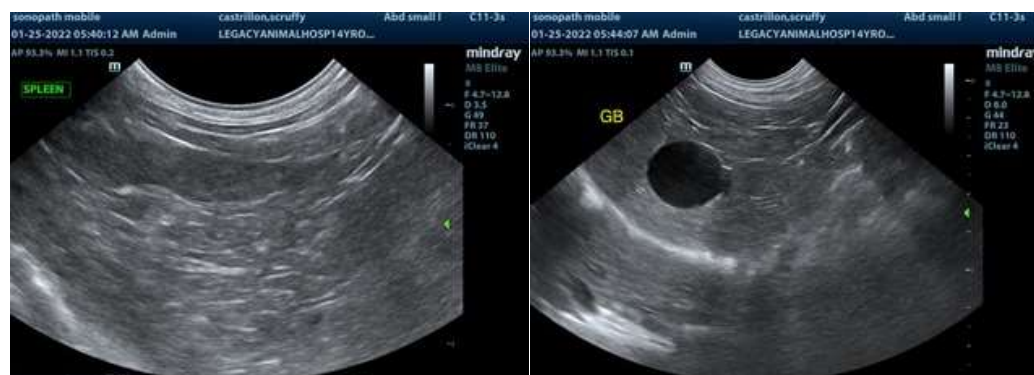
Dr. Kristin
Pontenzone

INVOICE

13148

DATE

1/25/22





PATIENT

Scruffy Castrillon

SPECIES

Canine

BREED

Yorkiepoop

SEX

MN

AGE

14 years

WEIGHT

10 lbs

INTERPRETED BY

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

IMAGING PERFORMED BY

Kelly Vazquez

HOSPITAL NAME

Legacy AH

REFERRING VET

Dr. Kristin
Pontenzone

INVOICE

13148

DATE

1/25/22



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