



PATIENT	PRESENTING CLINICAL SIGNS
Sawyer Doyle	Pet presented for ultrasound due to elevated liver values, no clinical signs. Bladder stones found on radiograph today
SPECIES	
Canine	Abnormal PE/Chem/CBC/UA Results: ALT: 271 ALKP: 788 Rest NSF UA: pending today
BREED	ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN
Dachhund Mix	Urinary System
SEX	The urinary bladder was normal in size and tone exhibiting normal urinary bladder wall without evidence of inflammatory criteria or tumors. Anechoic urine was present primarily with mild dependent lumen mineral to small calculi. The urethra exhibited normal structure and tone to a depth of 3.0 cm.
M/N	
AGE	The area of the residual prostate was of overt pathology.
9 years	No evidence of pathology in the area of the aortic trifurcation.
WEIGHT	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 or pyelectasia was present. Pinpoint to minor medullary mineral was noted. The left kidney measured 5.1 cm in length. The right kidney measured 6.0 cm in length.
31.4 lbs.	
INTERPRETED BY	Adrenal Glands
R. McKenzie Daniel, DVM, DABVP (Canine and Feline)	The left and right adrenal glands were not definitively visualized.
IMAGING PERFORMED BY	Spleen
Dr. Reyes	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.
HOSPITAL NAME	Liver/ Gallbladder
Graceful Paws Pet Clinic	The liver exhibited subjective mild enlargement. The parenchyma of the liver was subjectively normal in echogenicity compared to the spleen and renal cortices. The liver parenchyma was uniform with a mildly coarse echotexture. The capsule of the liver was symmetrically rounded to mildly swollen in margination. The hepatic and portal vasculature were normal in appearance without signs of congestion. Normal to adequate hepatic vascular volume was noted.
REFERRING VET	
Dr. Reyes	The gallbladder was non-distended in size containing anechoic content with mild nonorganized hyperechoic gallbladder sediment. No evidence of gallbladder or peripheral gallbladder inflammation was noted. The cystic and common bile ducts were normal.
INVOICE	
17346	The gallbladder was non-distended in size containing anechoic content with mild nonorganized hyperechoic gallbladder sediment. No evidence of gallbladder or peripheral gallbladder inflammation was noted. The cystic and common bile ducts were normal.
DATE	Gastrointestinal
7/21/23	The stomach presented intact wall layering with a normal wall layer ratio. The lumen of the stomach contained mild echogenic, nonshadowing ingesta without signs of obstruction or foreign material.



PATIENT

Sawyer Doyle

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

Dachshund Mix

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

M/N

Free Abdomen

No overt lymphadenopathy or peritoneal effusion was present.

AGE

9 years

ULTRASONOGRAPHIC FINDINGS

- Mild dependent urinary bladder lumen mineral / small calculi
- Mild age-related kidneys with pinpoint medullary mineral
- Nonspecific hepatopathy - sonographically consistent with benign hepatopathy criteria, vacuolar hepatopathy, nonobstructive cholestasis, inflammatory hepatopathy, or other
- Mild gallbladder sediment (non-mucocele)

WEIGHT

31.4 lbs.

INTERPRETED BY

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

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Correlation with pending urinalysis and suggested screening urine C/S on a sterile urine sample is recommended. No evidence of intrahepatic or extrahepatic macroscopic shunt was noted. Screening FNA hepatic cytology assuming normal clotting status is warranted for further clarification. Hepatic core surgical biopsy is likely required for a definitive diagnosis. Hepatosupportive medications including Denamarin and Ursodiol, if tolerated, with monitoring of hepatic response may prove beneficial.

IMAGING PERFORMED BY

Dr. Reyes

HOSPITAL NAME

Graceful Paws Pet
Clinic

REFERRING VET

Dr. Reyes

INVOICE

17346

DATE

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PATIENT

Sawyer Doyle

SPECIES

Canine

BREED

Dachsund Mix

SEX

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AGE

9 years

WEIGHT

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REFERRING VET

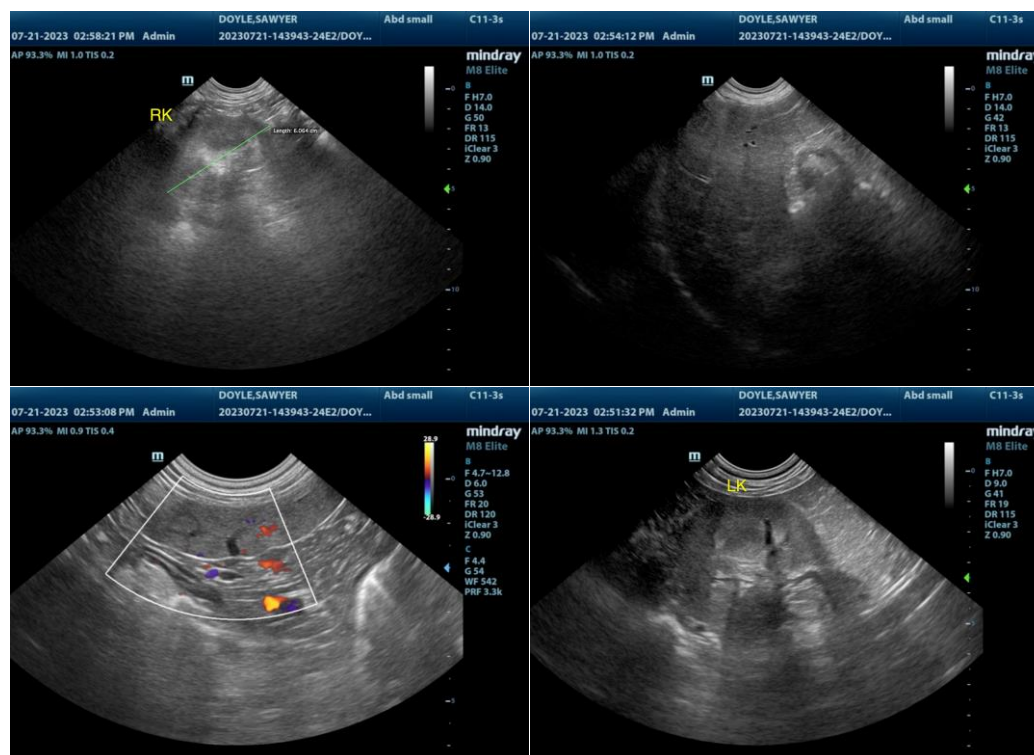
Dr. Reyes

INVOICE

17346

DATE

7/21/23



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