



PATIENT PRESENTING CLINICAL SIGNS

Remi Neiman
History: Elevated ALP of unknown origin. Patient is nonclinical
Abnormal PE/Chem/CBC/UA Results: Elevated ALP

SPECIES ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Canine
Urinary System

BREED
Shih Tzu
The urinary bladder, trigone, cystourethral junction, and visible pelvic urethra to a depth of 2.0 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 were noted. Aortic trifurcation was normal.

SEX
Spayed Female
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 minor loss of corticomedullary symmetry and definition expected for the age of the patient. No evidence of pelvic dilation was present. Potential for minor areas of medullary mineral noted. The left kidney measured 3.9 cm in length. The right kidney measured 3.9 cm in length.

AGE
8 Years
Adrenal Glands

WEIGHT
9.3 kg
The left adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The left adrenal gland measured 0.53 cm width at the caudal pole and 0.51 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 0.56 cm width at the caudal pole.

INTERPRETED BY
No evidence of adrenal hyperplasia or tumors.

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

The spleen was overall normal in size with subtle splenic parenchyma heterogeneity. Hyperechoic areas of parenchyma adjacent to the hilus, likely consistent with benign myelolipomas. A solitary mildly expansive nonhomogeneous macronodule to small mass was noted in the medial spleen, measuring 1.7 cm in diameter. The macronodule to small mass appeared to symmetrically distort the medial capsule. No evidence of parenchymal escape or macronodule to small mass rupture.

IMAGING PERFORMED BY

Dr. Belan

HOSPITAL NAME
Liver

Dr. Lebouldas
The liver presented enlarged in size. The liver exhibited normal hepatic parenchyma echogenicity with moderate coarse echotexture and minor parenchymal remodeling. The hepatic and portal vasculature were normal in appearance without signs of congestion.

REFERRING VET

Signal Hill AC
The gallbladder was non-distended. The gallbladder walls were sonographically normal. Anechoic content with moderate mildly congealed yet nonorganized nonmineralized luminal debris. The cystic and common bile ducts were normal.

INVOICE
Gastrointestinal

15224
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.

DATE

5/16/22



PATIENT

Remi Neiman

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.

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

SPECIES

Canine

Pancreas

The pancreas was normal in size and contour with isoechoic to heterogeneous parenchyma compared to adjacent omentum. No signs of active inflammation or neoplasia.

BREED

Shih Tzu

Free Abdomen

No evidence of perisplenic or peritoneal free fluid. No overt lymphadenopathy noted.

SEX

Spayed Female

ULTRASONOGRAPHIC FINDINGS

- Vacuolar hepatopathy pattern with minor parenchyma remodeling
- Moderate congealed yet nonorganized gallbladder debris (non-mucocele)
- Nonhomogeneous to mildly expansive splenic macronodule to small mass- multiple etiologies possible, including hyperplasia, hematopoiesis, hematoma, granuloma, splenitis or neoplasia (i.e., emerging sarcoma, round cell neoplasia or other).
- Heterogeneous pancreas- nonspecific patient variant suspected. Potential for remodeling owing to previous inflammation or low-grade to chronic pancreatitis, if clinically applicable.

AGE

8 Years

WEIGHT

9.3 kg

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

INTERPRETED BY

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

Ultrasound guided FNA of the splenic macronodule to small mass, assuming normal clotting status and using a 25-gauge needle, could be considered for screening cytology. No overt evidence of hepatic primary or metastatic neoplastic criteria. Given the lack of clinical signs and normal overall presentation of the bilateral adrenal glands, adrenal disease is considered unlikely. Hepatosupportive medications, including Denamarin and ursodiol may prove beneficial. Splenectomy with hepatic biopsies could be considered in this case versus sonographic monitoring of the splenic macronodule to small mass for evidence of progression with initial recheck in 4 weeks.

IMAGING PERFORMED BY

Dr. Belan

HOSPITAL NAME

Dr. Lebouldas

REFERRING VET

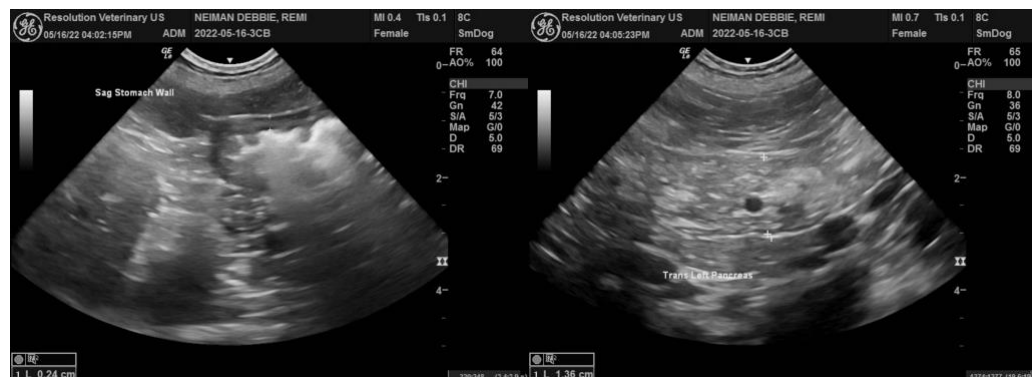
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SPECIES

Canine

BREED

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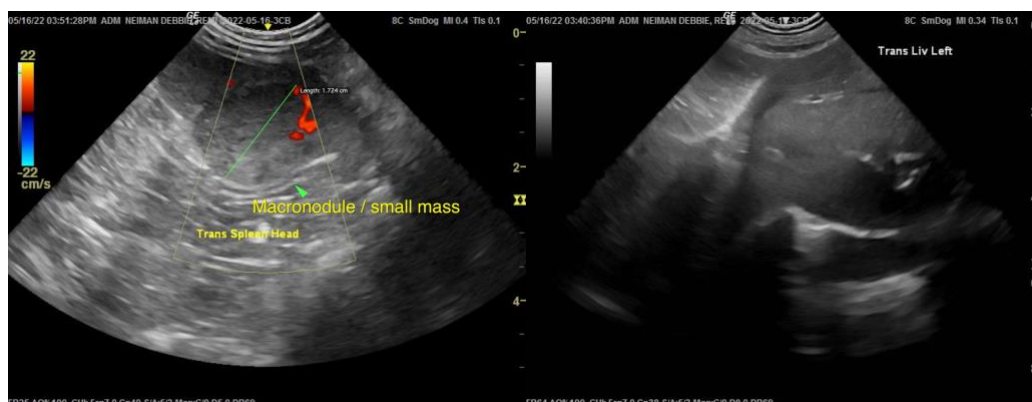
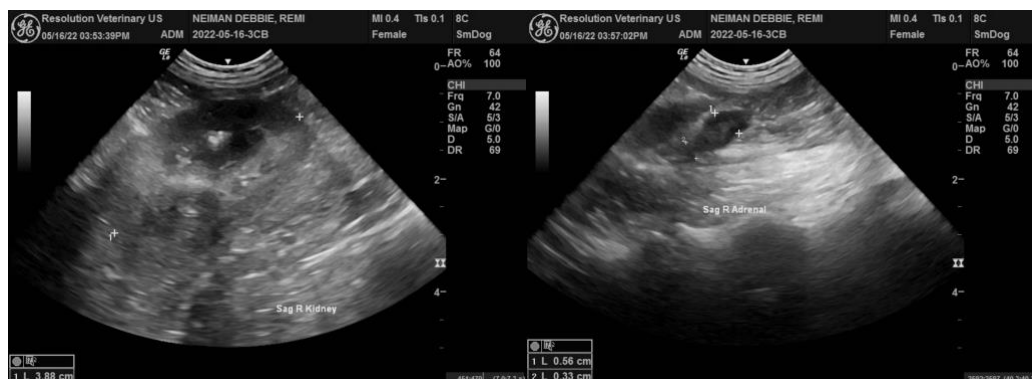
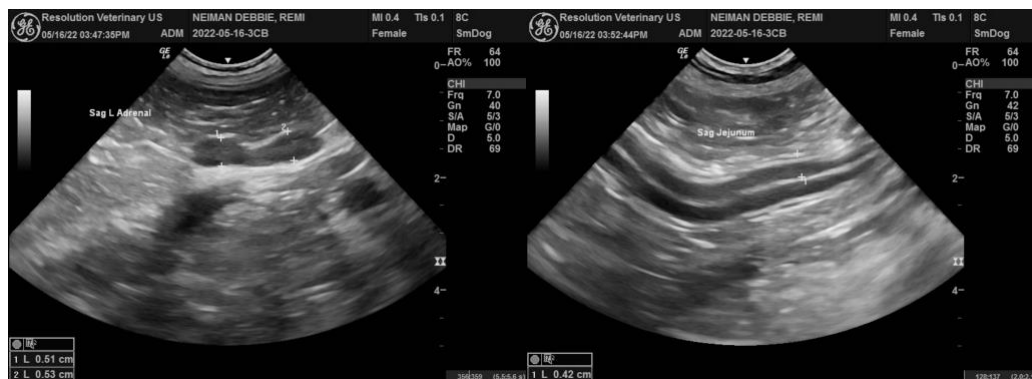
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The information and recommendations provided are based on the images presented by the referring veterinarian. No evaluation can be communicated regarding pathology that was not



PATIENT

visible in the image/video clips provided.

Remi Neiman

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.

SPECIES

Canine

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

BREED

Shih Tzu

SEX

Spayed Female

AGE

8 Years

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