

PATIENT PRESENTING CLINICAL SIGNS

Scampi Zapel sedated ace/torb Blood work done to monitor meloxicam meds. Hematuria, proteinuria, urine culture negative. CBC low platelet count(est 30-50,000) increased ALT, AlkP, K+. History of mild cardiomegaly and degenerative mitral disease echo done 6/2021 and 12/19 with little progression.

SPECIES

Canine

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

BREED

Urinary System

Rat Terrier

The urinary bladder presented uniformly mildly thickened urinary bladder wall isoechoic to the adjacent normal urinary bladder wall. The luminal margin of the thickened urinary bladder wall was mildly asymmetrical in luminal surface contour to potential mild micropolyploid component. Ventroapical urinary bladder wall thickness measured 0.45 cm. The urinary bladder, trigone, cystourethral junction, and visible pelvic urethra exhibited normal tone. Anechoic urine was present in the lumen with minor hyperechoic nondependent to suspected foci, likely indicative of minor areas of crystalline debris or mineral. The ureteral papillae were normal. The ureters were not visible which is normal.

SEX

FS

AGE

15 y

The area of the aortic trifurcation was free of pathology.

WEIGHT

13.2 lbs.

Normal renal size with asymmetrical margination were present in both kidneys. The renal cortex presented uniformly increased in echogenicity with uniform echotexture. The renal cortex appeared to be hypertrophied resulting in an altered cortex: medulla ratio. Mild loss of corticomedullary distinction was also present. The renal medullary volume was subjectively reduced. Small left kidney cortical cysts were present. Pinpoint areas of medullary mineral were noted in both kidneys. The left kidney measured 4.2 cm in length. The right kidney measured 4.3 cm in length.

INTERPRETED BY

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

Adrenal Glands

IMAGING PERFORMED BY

Loetitia Saint-Jacques, RVT

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 0.42 cm width in the cranial pole and 0.5 cm width in the caudal pole. The right adrenal gland measured 0.55 cm width in the cranial pole and 0.38 cm width in the caudal pole. No evidence of adrenomegaly or tumors was noted.

HOSPITAL NAME

Sierra Animal WC

Spleen

REFERRING VET

Dr. Peggy Roberts

The spleen exhibited subjective generalized enlargement with generalized mild parenchyma heterogeneity exhibiting focal to intermittent discretely hypoechoic, nondisruptive nodules. An example of a splenic nodule measured 0.69 cm width. Normal splenic vascularity was noted. No splenic masses were noted.

INVOICE

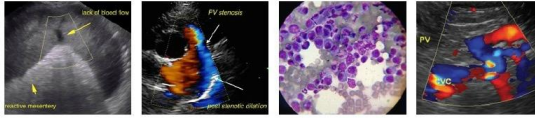
14497

Liver/ Gallbladder

DATE

8/3/22

The liver presented enlarged in size. 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. The gallbladder was non-distended in size with mild, nondependent, mildly hyperechoic



PATIENT nonorganized gallbladder debris. The gallbladder was otherwise normal. No evidence of gallbladder or peripheral gallbladder inflammatory criteria was noted. The cystic and common bile ducts were normal.
Scampi Zapel

SPECIES *Gastrointestinal*

Canine 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.

BREED 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.
Rat Terrier

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

SEX *Pancreas*

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

AGE *Free Abdomen*

15 y Focal to intermittent mesenteric lymph nodes present. The lymph nodes were essentially isoechoic to adjacent omentum without evidence of peripheral inflammation and maintaining a normal width: length ratio (<0.5). An example lymph node measured 1.7 cm x 0.55 cm. These lymph nodes are not consistent with inflammatory or neoplastic criteria exhibiting subtle cystic changes.

WEIGHT

13.2 lbs.

ULTRASONOGRAPHIC FINDINGS

INTERPRETED BY

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

- Splenomegaly exhibiting focal to Intermittent discrete nodules
- Hepatopathy - subjectively benign
- Mild nondependent gallbladder debris (non-mucocele)
- Mild pancreatic remodeling - age related pancreatic changes and likely incidental
- Nonspecific chronic renal change with small cortical cysts
- Mild cystitis pattern

IMAGING PERFORMED BY

Loetitia Saint-Jacques, RVT

HOSPITAL NAME

Sierra Animal WC

REFERRING VET

Dr. Peggy Roberts

INVOICE

14497

DATE

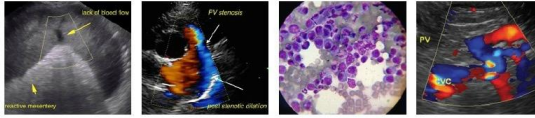
8/3/22

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Given the reported negative urine C/S, additional renal staging to include baseline UPC, given the relatively quiet sediment, is suggested.

The splenomegaly is nonspecific with multiple etiologies possible and with some contribution owing to sedation. Hyperplasia, hematopoiesis, and incidental splenitis are possible with neoplastic criteria thought less likely. Concurrent splenic FNA, assuming normal clotting status, could be considered primarily to ensure only benign changes are present and if evidence of weight loss.

Overall, the liver was nonspecific yet consistent with benign hepatopathy. Considerations may include suspected vacuolar hepatopathy and mild nonobstructive cholestasis given the ALP elevation with potential primarily or concurrent Inflammation given the ALT elevation i.e., possible



PATIENT

Scampi Zapel

cholangiohepatitis. Further assessment of the liver may include FNA cytology, assuming normal clotting status and using a 25-gauge needle. Hepatosupportive medications including Denamarin and Ursodiol may prove beneficial.

SPECIES

Canine

No evidence of lower urinary tract neoplastic criteria or calculi was noted.

BREED

Rat Terrier

SEX

FS

AGE

15 y

WEIGHT

13.2 lbs.

INTERPRETED BY

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

IMAGING PERFORMED BY

Loetitia Saint-Jacques, RVT

HOSPITAL NAME

Sierra Animal WC

REFERRING VET

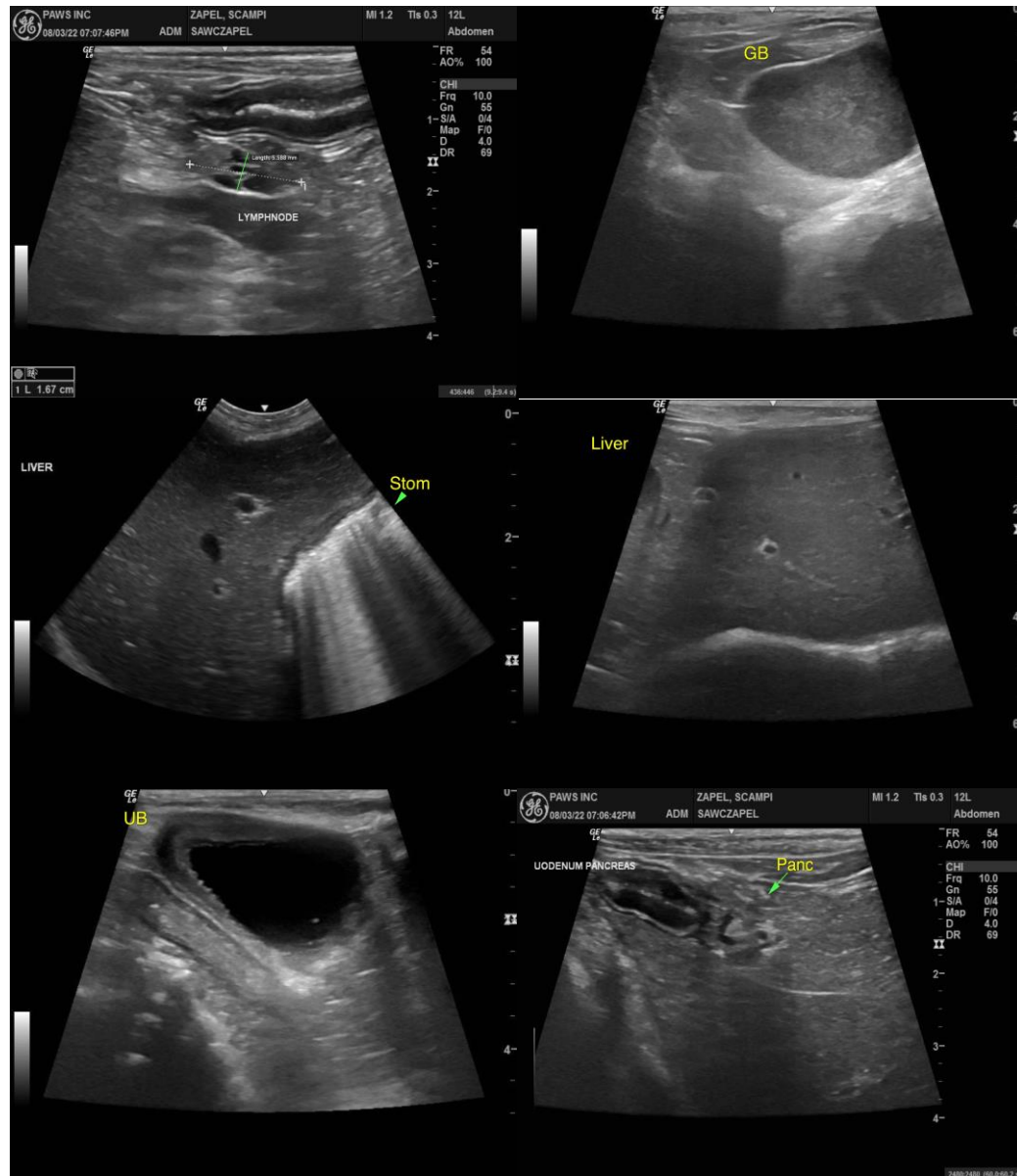
Dr. Peggy Roberts

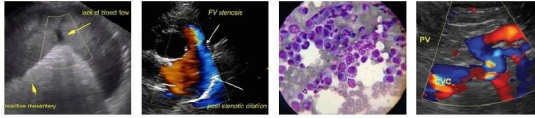
INVOICE

14497

DATE

8/3/22





PATIENT

Scampi Zapel

SPECIES

Canine

BREED

Rat Terrier

SEX

FS

AGE

15 y

WEIGHT

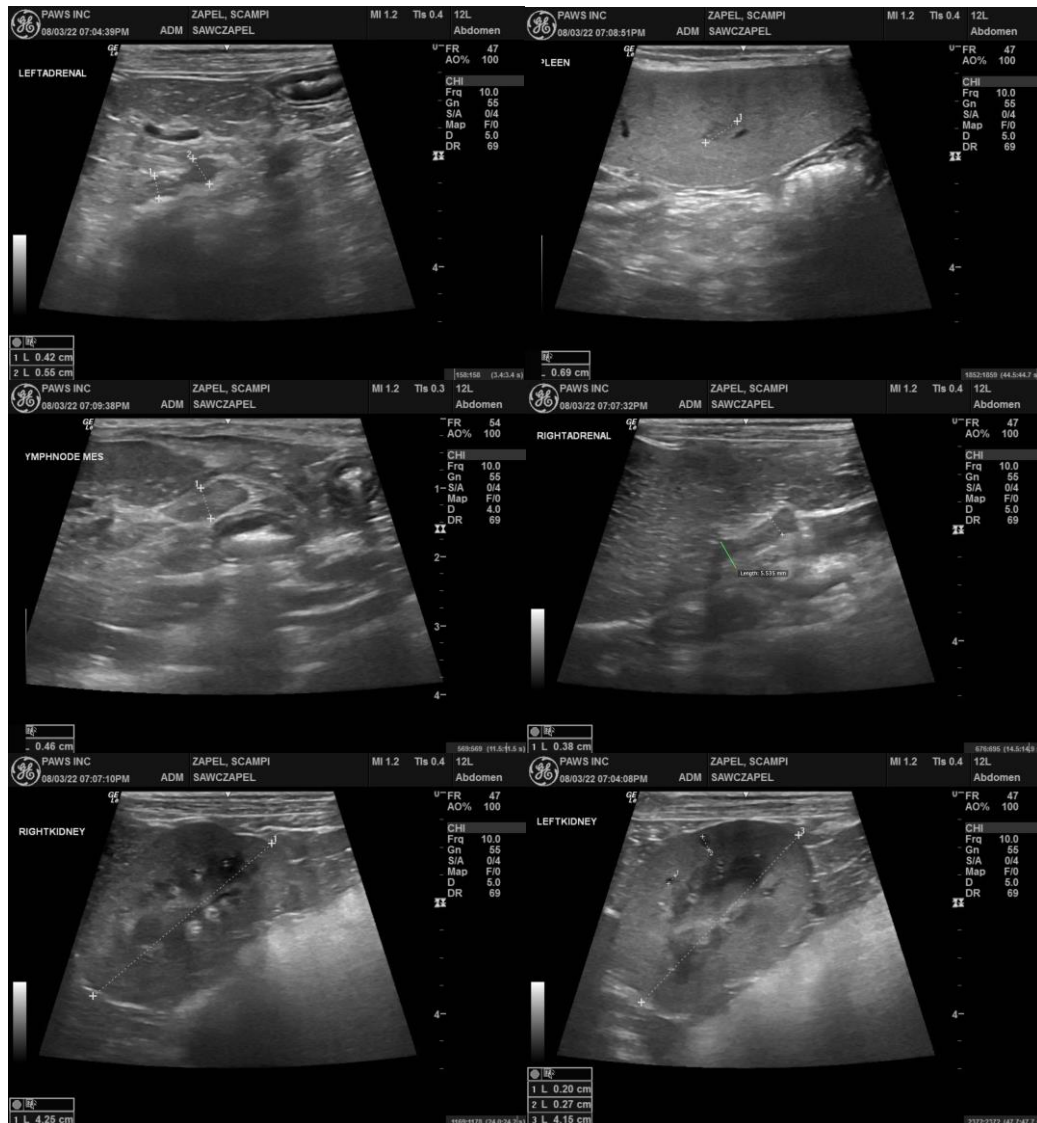
13.2 lbs.

INTERPRETED BY

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

IMAGING PERFORMED BY

Loetitia Saint-Jacques, RVT



HOSPITAL NAME

Sierra Animal WC

REFERRING VET

Dr. Peggy Roberts

INVOICE

14497

DATE

8/3/22

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