



PATIENT PRESENTING CLINICAL SIGNS

Zoe Moshakos
 1 month history of pollakiuria. Bladder calculi seen on radiographs with calcium oxalate crystals on UA. Bladder polyp seen on brief ultrasound of bladder. Liver also appears mildly enlarged on x-rays. History of elevated ALP (564), Cholesterol (331), and Triglycerides (1640) on 6/17/22. Pre-surgical panel on 11/26/22 showed elevated ALP (453); Chol and TG not evaluated on this panel. No PU/PD reported at home. *Sedated with torb/dex.

SPECIES

Canine

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

BREED

Cairn Terrier

Urinary System

Multiple dependent small cystic calculi were present in the area of the trigone and urinary bladder neck, an example measuring 0.72 cm in diameter. The calculi was likely mobile resulting in regional mild ventroapical polyploid cystitis. The ureteral papillae were normal. The ureters were not visible which is normal.

SEX

FS

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. Pinpoint focal areas of non-obstructive medullary mineral was present. Bilateral minor pyelectasia was present. The left kidney measured 5.0 cm in length. The right kidney measured 5.2 cm in length

AGE

12yr

The area of the aortic trifurcation was free of pathology.

WEIGHT

17.28lb

The area of the iliac trifurcation was free of pathology including no evidence of medial, iliac or sublumbar lymphadenopathy.

INTERPRETED BY

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

Adrenal Glands

The left adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The left adrenal gland measured 0.56 cm width at the caudal pole and 0.48 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 0.50 cm width at the caudal pole and 0.4 cm width at the cranial pole.

IMAGING PERFORMED BY

Pamela Harrigan, RDCS

Spleen

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

VCA Hanson Animal Hospital

Liver

REFERRING VET

Dr. Kussman

The liver presented mild to moderately 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. Congested hepatic vasculature was present likely owing to sedation.

INVOICE

12304ag

The gallbladder was non distended in size with echogenic, nonmineralized, nondependent biliary sludge. The biliary sludge was non organized with a hypoechoic to anechoic, irregular to interrupted rim visible between the nondependent sludge and inner wall. No signs of peripheral inflammation.

DATE

11/28/2022

Gastrointestinal



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The stomach presented intact wall layering with a normal wall layer ratio. The lumen of the stomach contained mild ingesta/chyme with no signs of ileus, obstruction or foreign material.

SPECIES

Canine

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.

Pancreas

BREED

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The pancreas was normal in size with minor capsule asymmetry and heterogeneous mildly mixed echogenic pancreatic parenchyma.

Free Abdomen

SEX

FS

No omental masses, overt lymphadenopathy or peritoneal effusion was present.

ULTRASONOGRAPHIC FINDINGS

AGE

12yr

- Multiple primarily small cystic calculi with secondary mild ventroapical polyploid cystitis pattern
- Mild chronic renal changes with pinpoint medullary mineral and minor pyelectasia
- Sonographically unremarkable bilateral adrenal glands-no adrenal tumors
- Vacuolar hepatopathy pattern-benign
- Immature gallbladder mucocele
- Pancreatic remodeling-patient/ age variant, remodeling owing to previous inflammatory episode or mild to chronic pancreatitis possible

WEIGHT

17.28lb

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

INTERPRETED BY

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

The pyelectasia may be owing to chronic renal changes, potential pelvic scarring possibly owing to previous calculi passage, IV fluid therapy (if applicable). Urine C/S and protein: creatinine ratio on sterile urine sample is recommended. Given the lack of reported PU/PD, polyphagia etc., primary adrenal disease is considered unlikely in light of overtly normal adrenal presentation.

IMAGING PERFORMED BY

Pamela Harrigan, RDCS

Continued monitoring with potential adrenal testing could be considered if clinical signs suggestive of Cushing's arise. Hepatosupportive medications such as Denamarin or Vitamin E as well as Ursodiol are recommended with close monitoring and sonographic reassessment of the gallbladder if progressive evidence of cholestasis.

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Assessment of T4 level suggested if not recently done.

No overt anesthetic contraindications assuming normal BP and evidence of normal hepatic function such as normal BUN, GLU and ALB level.

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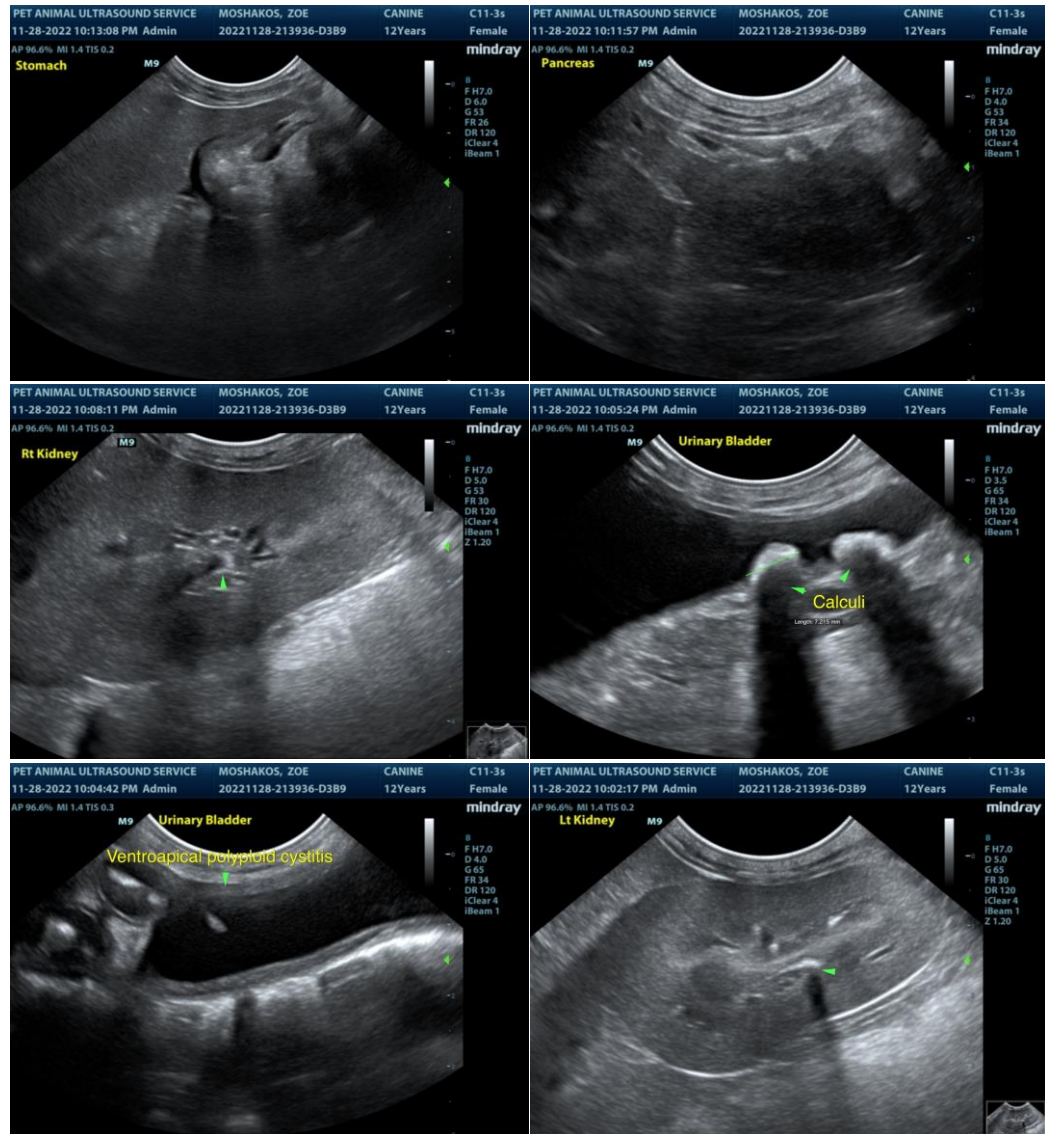
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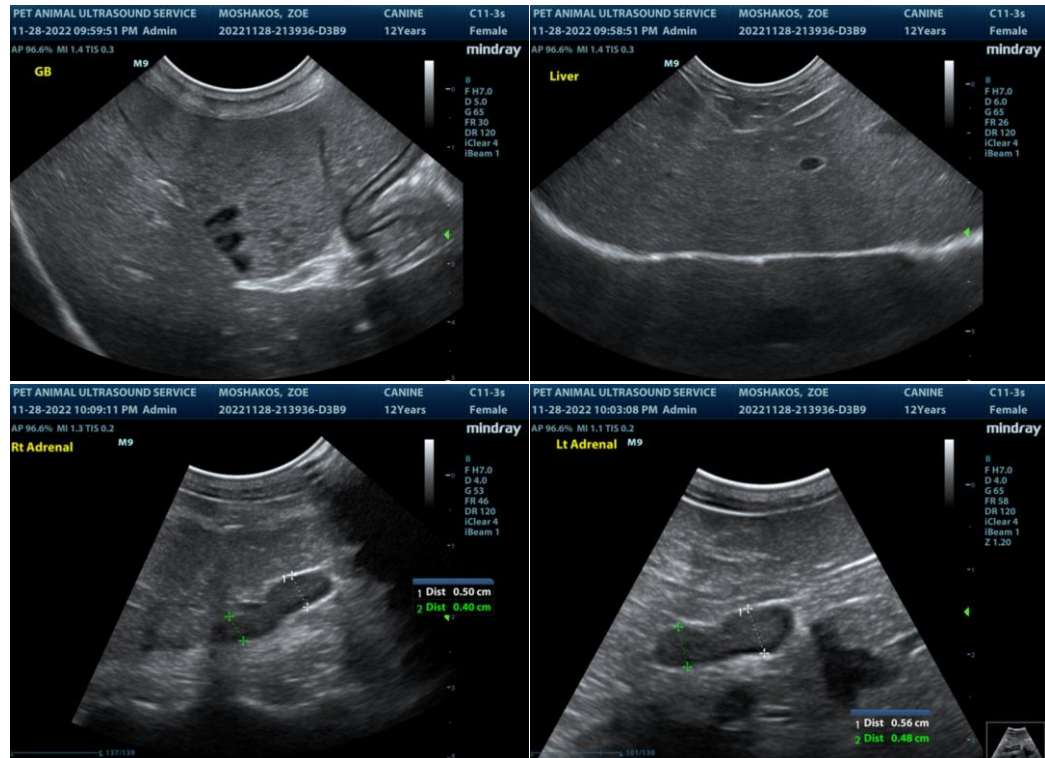
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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)

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