



PATIENT

Bella Yacuzzio

PRESENTING CLINICAL SIGNS

17 yo FS Pomeranian. History of IRIS Stage 3 CKD, proteinuria, hypertension, chronic severe dental disease.

SPECIES

Canine

Abnormal PE/Chem/CBC/UA Results: Azotemia Proteinuria Hypertension Hyperphosphatemia ALT and ALP elevations

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

BREED

Pomeranian

Urinary System

The urinary bladder, trigone, cystourethral junction, and visible pelvic urethra to a depth of 2 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.

SEX

FS

Normal size and asymmetrical contour were present in the kidneys. Marked loss of corticomedullary definition was present with mild non-uniform corticomedullary echotexture. Discrete pinpoint hyperechoic cortical foci which are suggestive of areas of cortical microinfarction, fibrosis or mineralization were present. Mild dystrophic medullary mineral was present with mild bilateral pyelectasia. Lateral right kidney cortical cysts were present. The left kidney measured 3.6 cm in length. The right kidney measured 3.5 cm in length.

AGE

17yr

WEIGHT

8lb

The area of the aortic trifurcation was free of pathology.

Adrenal Glands

The bilateral adrenal glands were not definitively visualized owing to peri adrenal artefact.

INTERPRETED BY

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

Spleen

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.

IMAGING PERFORMED BY

Elaina Petrone

Liver/Gallbladder

The liver was subjectively normal in size with areas of mild capsule asymmetry and generalized moderate non-homogenous to remodeled parenchyma exhibiting mixed echogenicity. Intermittent well demarcated to coalescing hyperechoic intraparenchymal nodules were present, an example measuring 1.2 cm in diameter. The hepatic and portal vasculature were normal in appearance without signs of congestion.

HOSPITAL NAME

Long Branch Animal
Hospital

REFERRING VET

Elaina Petrone

The gallbladder was non distended in size with echogenic, nonmineralized, non-dependent 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. The cystic and common bile ducts were normal.

INVOICE

12768ag

Gastrointestinal

DATE

01/23/2023

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

Bella Yacuzzio

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, likely consistent with age related changes and considered incidental. No signs of active inflammation or neoplasia.

BREED

Pomeranian

Free Abdomen

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

SEX

FS

ULTRASONOGRAPHIC FINDINGS

- Bilateral chronic degenerative nephropathy exhibiting pinpoint corticomedullary dystrophic mineral, suspect microinfarctions/fibrosis, right kidney cortical cyst and mild pyelectasia
- Chronic hepatopathy exhibiting marked non-uniform to remodeled parenchyma, intermittent to coalescing subjectively benign hepatic nodules-nodules likely consistent with hyperplasia or lipogranulomas
- Partial non-inflamed gallbladder mucocele

AGE

17yr

WEIGHT

8lb

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Recheck full urinary workup with UPC is suggested if not recently done.

Hepatosupportive medications such as Denamarin and Ursodiol may prove beneficial. Sonographic monitoring of the gallbladder is likely ideal and recommended especially if evidence of persistent cholestasis or cranial abdominal/subxiphoid discomfort on palpation.

INTERPRETED BY

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

Continued CKD therapy, management of hypertension +/- empirical therapy for proteinuria depending on UPC assessment is recommended.

IMAGING PERFORMED BY

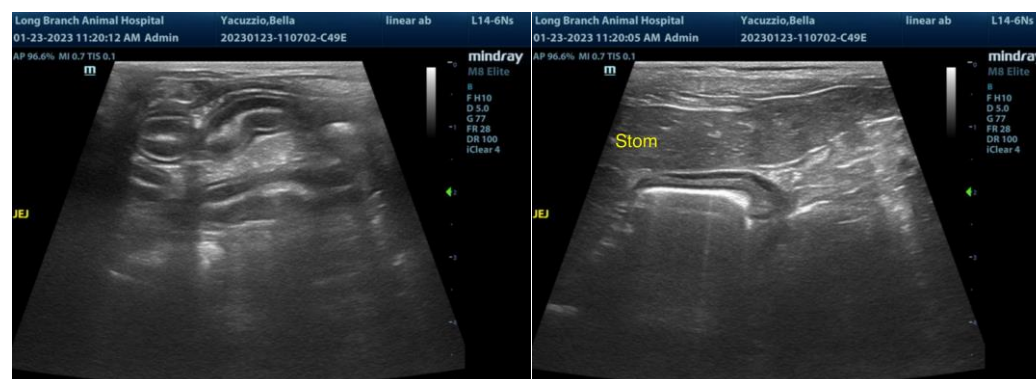
Elaina Petrone

HOSPITAL NAME

Long Branch Animal
Hospital

REFERRING VET

Elaina Petrone



INVOICE

12768ag

DATE

01/23/2023



PATIENT

Bella Yacuzzio

SPECIES

Canine

BREED

Pomeranian

SEX

FS

AGE

17yr

WEIGHT

8lb

INTERPRETED BY

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

IMAGING PERFORMED BY

Elaina Petrone

HOSPITAL NAME

Long Branch Animal
Hospital

REFERRING VET

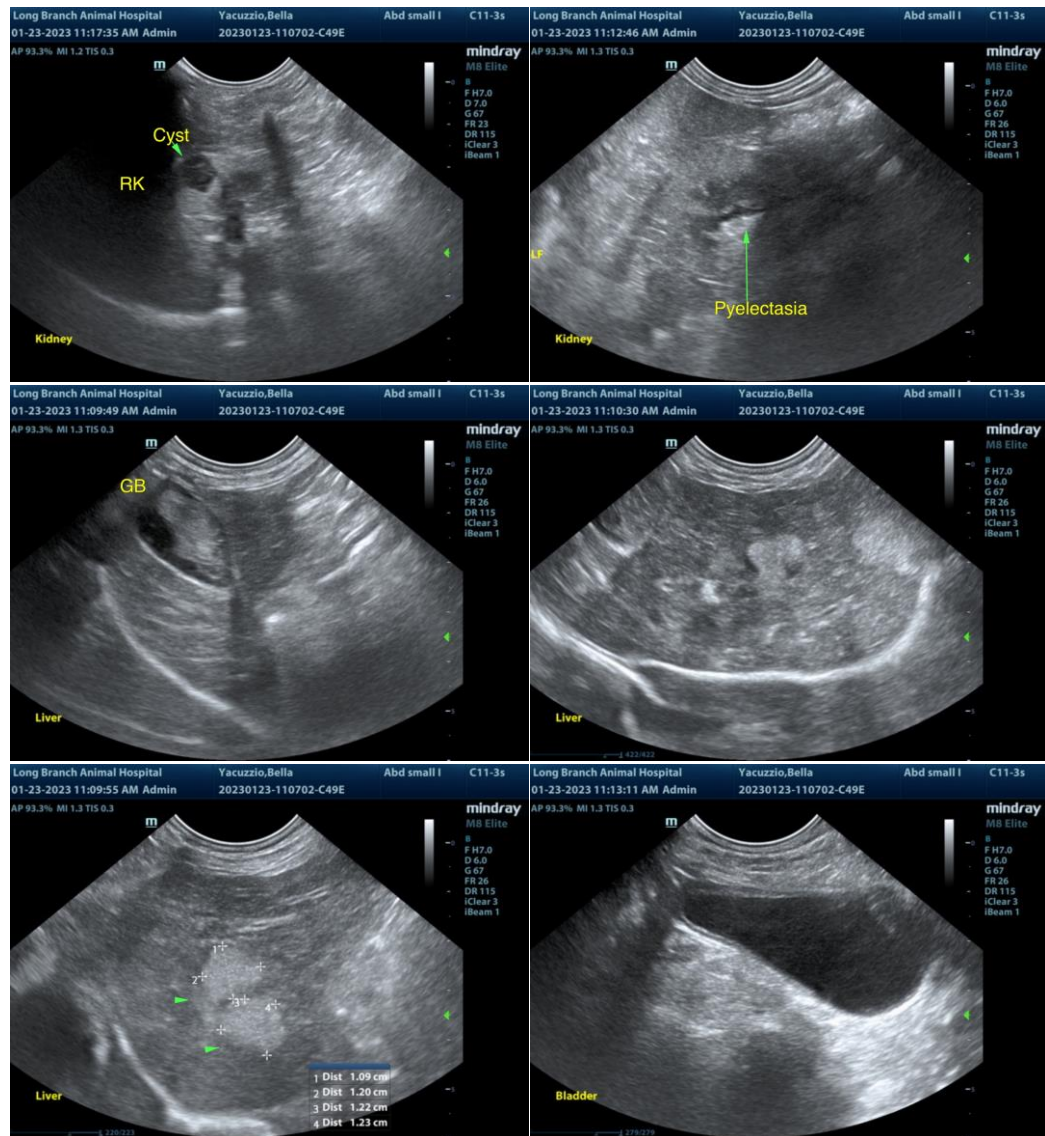
Elaina Petrone

INVOICE

12768ag

DATE

01/23/2023



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)
mac.daniel@sonopath.com