



PATIENT

Rocco Mena

SPECIES

Canine

BREED

Mini Pinscher

SEX

Male/Neutered

AGE

15

WEIGHT

12.7

INTERPRETED BY

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

IMAGING PERFORMED BY

Dr. Sharkaway

HOSPITAL NAME

Kew Gardens AH

REFERRING VET

Dr. Sharkaway

INVOICE

14089

DATE

6/14/22

PRESENTING CLINICAL SIGNS

LETHARGY EPILEPSY HEMATURIA SOFT STOOL

Abnormal PE/Chem/CBC/UA Results: CHEMISTRY - ELEVATED ALT, ALPK, GGT, AMYLASE, LIPASE

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Urinary System

The urinary bladder presented uniformly 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 contour. Mineralization or echogenic foci within the thickened areas of urinary bladder wall was not present. The urinary bladder, trigone, cystourethral junction, and visible pelvic urethra exhibited normal tone to a depth of 2.0 cm. 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 overt pathology was noted in the area of the residual prostate.

The area of the aortic trifurcation was free of pathology.

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 marked loss of corticomedullary symmetry and definition expected for the age of the patient. Multiple cysts were present in both the left and right kidneys with areas of subjective nonobstructive medullary renolithiasis. No evidence of pelvic dilation was present. The left kidney measured 3.6 cm in length. The right kidney measured 4.0 cm in length.

Adrenal Glands

The left adrenal gland was enlarged in size yet primarily maintained a symmetrical capsule contour. The left adrenal gland exhibited nonhomogeneous parenchyma. The left adrenal gland measured 1.6 cm length x 0.86 cm width at the caudal pole. No overt evidence of adrenal mineralization was noted in either adrenal gland.

The right adrenal gland was enlarged in size with asymmetrical capsule contour. The right adrenal gland exhibited nonhomogeneous parenchyma. No overt evidence of adrenal mineralization was noted in either adrenal gland. The right adrenal gland measured 1.9 cm length x 0.80 cm width at the caudal pole.

Spleen

The spleen exhibited primarily finely textured and homogenous parenchyma which was hyperechoic to the liver and renal cortical parenchyma. Focal to intermittent echogenic nodules were present throughout the cranial to caudal 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 or neoplastic changes were not noted. The echogenic nodules tend to trend benign and are most consistent with benign hyperplasia or myelolipomas.



PATIENT

Liver/ Gallbladder

Rocco Mena

The liver exhibited generalized enlargement with areas of asymmetrical capsule contour and variably echogenic parenchyma exhibiting parenchymal remodeling. Intermittent small thinly-walled intraparenchymal cysts containing anechoic fluid were present. Isoechoic to nonhomogeneous mass was noted ventral to the gallbladder measuring approximately 3.7 cm in diameter was present. The gallbladder was non-distended in size with mild nondependent hyperechoic luminal debris exhibiting potential for mild mineralization. The cystic and common bile ducts were normal.

SPECIES

Canine

BREED

Mini Pinscher

Gastrointestinal

SEX

The stomach presented intact yet subjective mild prominent wall layering. The lumen of the stomach was empty with mild gastric luminal gas and no signs of ileus, obstruction, or foreign material.

Male/Neutered

AGE

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.

15

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

WEIGHT

Pancreas

12.7

The pancreas exhibited generalized enlargement with nonhomogeneous to mixed echogenic parenchyma with suspect nonhomogeneous to focally cystic, potentially cavitated mass caudal to the stomach. The suspected pancreatic mass measured 3.7 cm in diameter.

INTERPRETED BY

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

Free Abdomen

No obvious lymphadenopathy was present. Generalized mild reactive mesentery was present primarily mid to cranial abdomen around the pancreas and caudal liver. No overt free fluid was noted.

IMAGING PERFORMED BY

Dr. Sharkaway

ULTRASONOGRAPHIC FINDINGS

- Hepatomegaly exhibiting generalized parenchymal remodeling, intermittent intraparenchymal cysts, and nonhomogeneous craniodorsal mass
- Mild potential mineralized gallbladder debris
- Enlarged nonhomogeneous pancreas with suspect left limb mass caudal to the stomach
- Bilateral marked chronic degenerative renal changes exhibiting multiple cysts and nonobstructive medullary renolithiasis
- Bilateral enlarged to irregular adrenal glands - more prominent in the right adrenal gland, adenomatous change, benign hyperplasia, potential for primary vs. metastatic adrenal neoplasia, i.e., pheochromocytoma, adenocarcinoma, metastatic disease, possible
- Suspect cystitis

HOSPITAL NAME

Kew Gardens AH

REFERRING VET

Dr. Sharkaway

INVOICE

14089

DATE

6/14/22

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Further renal staging to include urine C/S and protein: creatinine ratio on sterile urine sample may be considered.



PATIENT

Rocco Mena

Assuming normal clotting status, ultrasound-guided FNA of the liver mass and suspect pancreatic mass caudal to the stomach and/or right pancreatic limb using a 25-gauge needle is warranted for screening cytology.

SPECIES

Canine

Although sampling is required for further clarification, concern for potential multicentric hepatopancreatic neoplasia is warranted. Bile acid testing could be considered to assess hepatic functionality.

BREED

Mini Pinscher

SEX

Male/Neutered

AGE

15

WEIGHT

12.7

INTERPRETED BY

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

IMAGING PERFORMED BY

Dr. Sharkaway

HOSPITAL NAME

Kew Gardens AH

REFERRING VET

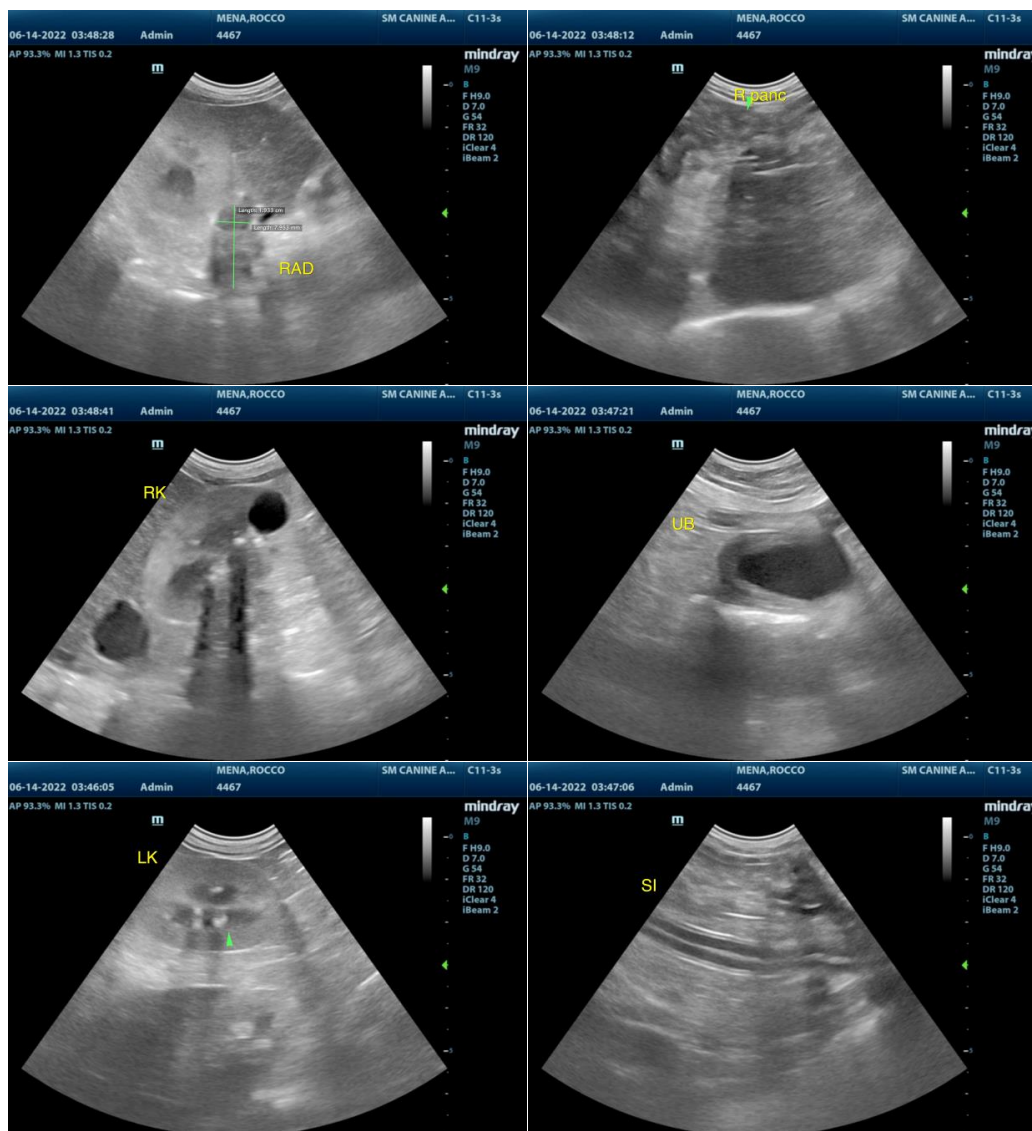
Dr. Sharkaway

INVOICE

14089

DATE

6/14/22





PATIENT

Rocco Mena

SPECIES

Canine

BREED

Mini Pinscher

SEX

Male/Neutered

AGE

15

WEIGHT

12.7

INTERPRETED BY

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

IMAGING PERFORMED BY

Dr. Sharkaway

HOSPITAL NAME

Kew Gardens AH

REFERRING VET

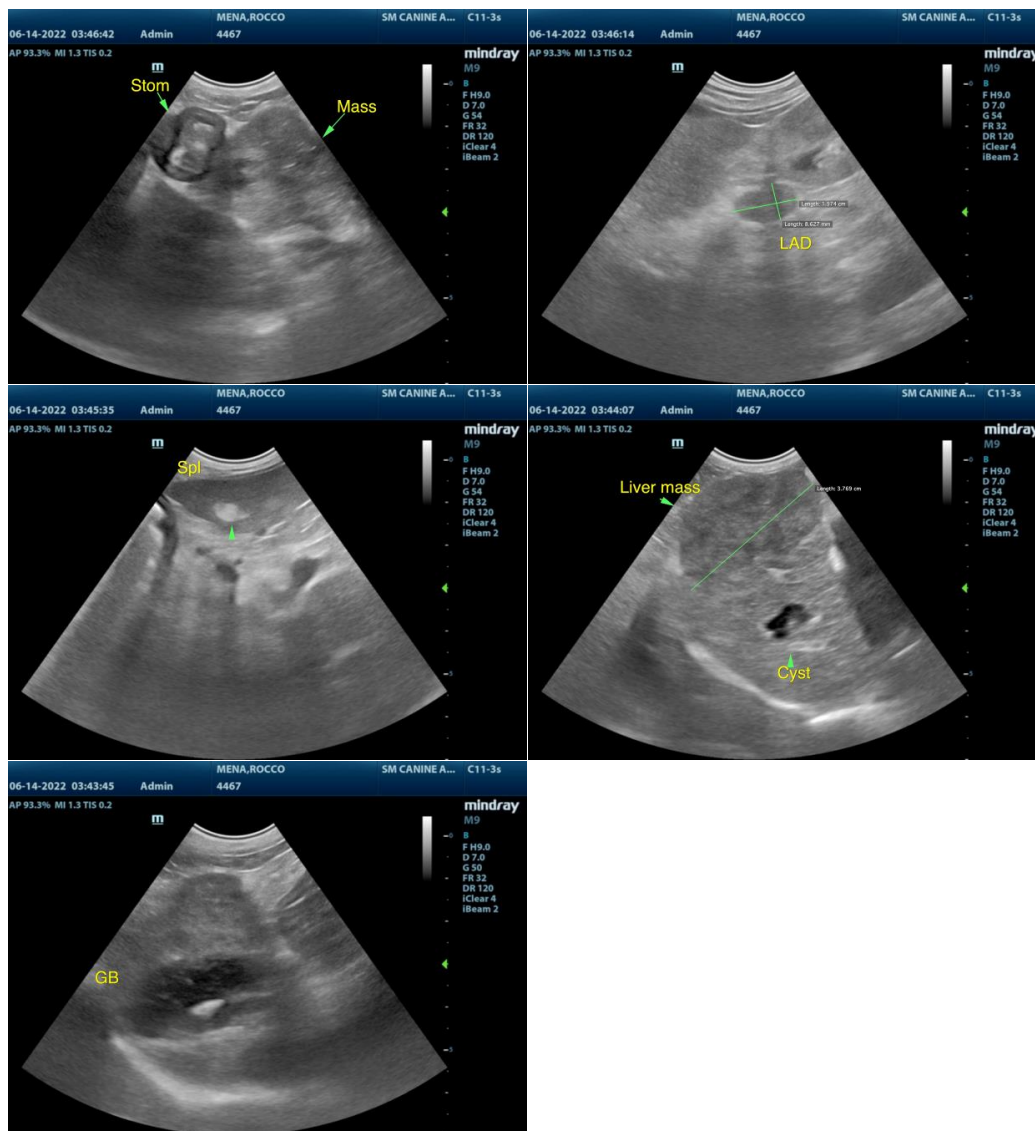
Dr. Sharkaway

INVOICE

14089

DATE

6/14/22



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