



PATIENT PRESENTING CLINICAL SIGNS

Abby Neumann PU/PD; weight loss. 2% dehydrated. Vaginal mucoid discharge. On Vetsulin 10 units BID; Amoxicillin 500 mg, 2 BID.

SPECIES Abnormal PE/Chem/CBC/UA Results: AST 223; ALP 758; GGTP 11; Glu 471; amalyse 1663; PSL 753; urine 3+ glucose and 3+ ketones.
Canine

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

BREED *Urinary System*

Doberman The urinary bladder, trigone, cystourethral junction, and visible pelvic urethra 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 FI Normal size and margination was present in the kidneys. A normal 1:3 cortex / medulla ratio and normal corticomedullary definition were maintained. The echogenicity of the cortex was similar to or slightly less than normal liver parenchyma while the medulla echogenicity was hypoechoic to the cortex with no evidence of pelvic dilation. The left kidney measured 6.1 cm in length. The right kidney measured 7.3 cm in length.

AGE 8yr The area of the aortic trifurcation was free of pathology.

WEIGHT 63lb The uterus exhibited mild prominent size along with mild prominent wall layering including intermittent small thinly walled mural cysts. The uterus measured ~ 1.1 cm in diameter. No overt evidence of intra-uterine fluid accumulation was present.

INTERPRETED BY No overt pathology in the area of the left and right ovaries.

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 0.54 cm width at the caudal pole and 0.50 cm width at the cranial pole. No overt pathology in the area of the right adrenal gland.

IMAGING PERFORMED BY

Pamela Harrigan, RDMS

Spleen

The spleen exhibited areas of minor medial capsule asymmetry with a finely textured and homogenous parenchyma which was hyperechoic to the liver and renal cortical parenchyma. 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 Palmer Animal Hospital

Liver

REFERRING VET

Dr. Haroules

The liver exhibited mild enlargement with rounded contour and generalized mild increased parenchyma echogenicity exhibiting moderate coarse echotexture. The hepatic and portal vasculature were normal in appearance without signs of congestion. The gallbladder was non-distended in size with thin walls and primarily anechoic luminal content. The cystic and common bile ducts were normal.

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Gastrointestinal

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

08/15/2022

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.



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

Abby Neumann **Pancreas**

SPECIES The parenchyma of the left limb, body and right limb of the pancreas presented isoechoic to the adjacent omental fat. A normal curvilinear capsule contour of the pancreas was present. The visible pancreatic duct was normal. No signs of active inflammation or neoplastic disease was evident.

Canine

Free Abdomen

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

Doberman

ULTRASONOGRAPHIC FINDINGS

- SEX**
- Mild hepatomegaly exhibiting mild parenchyma hyperechogenicity
 - Overtly normal bilateral kidneys-no evidence of pyelonephritis
 - Probable cystic endometrial hyperplasia

FI

AGE INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

8yr No overt evidence of definitive pyometra was present. The possibility of emerging pyometra, mucometra or similar cannot be definitively excluded given the presence of mucoid vaginal discharge. Cytology of the vaginal discharge with sonographic monitoring of the uterus if persistent/progressive discharge and/or OVH could be considered.

WEIGHT

63lb

Overall the appearance of the liver is suggestive of metabolic/reactive/vacuolar (diabetic) hepatopathy. A urine C/S on sterile urine sample is recommended.

INTERPRETED BY

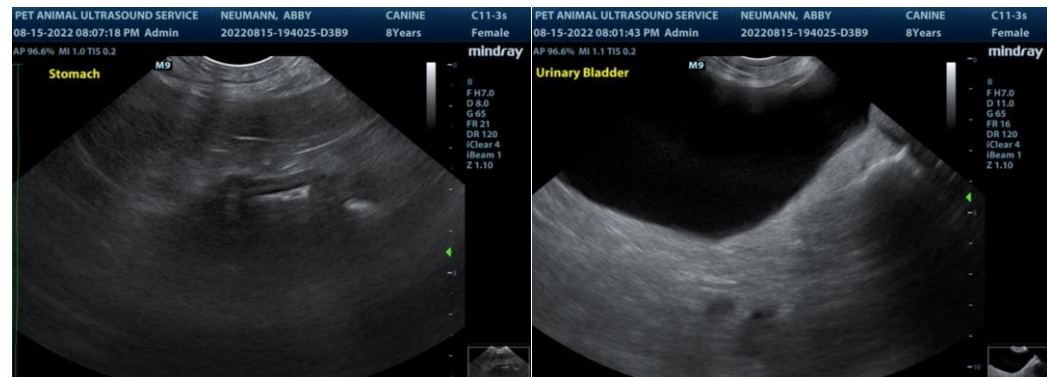
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 DABVP (Canine and Feline)

No overt evidence of active pancreatitis although low grade to chronic pancreatitis may be present and be sonographically normal.

A fructosamine level and a GI panel to include PLI/TLI/Cobalamin/Folate is recommended.

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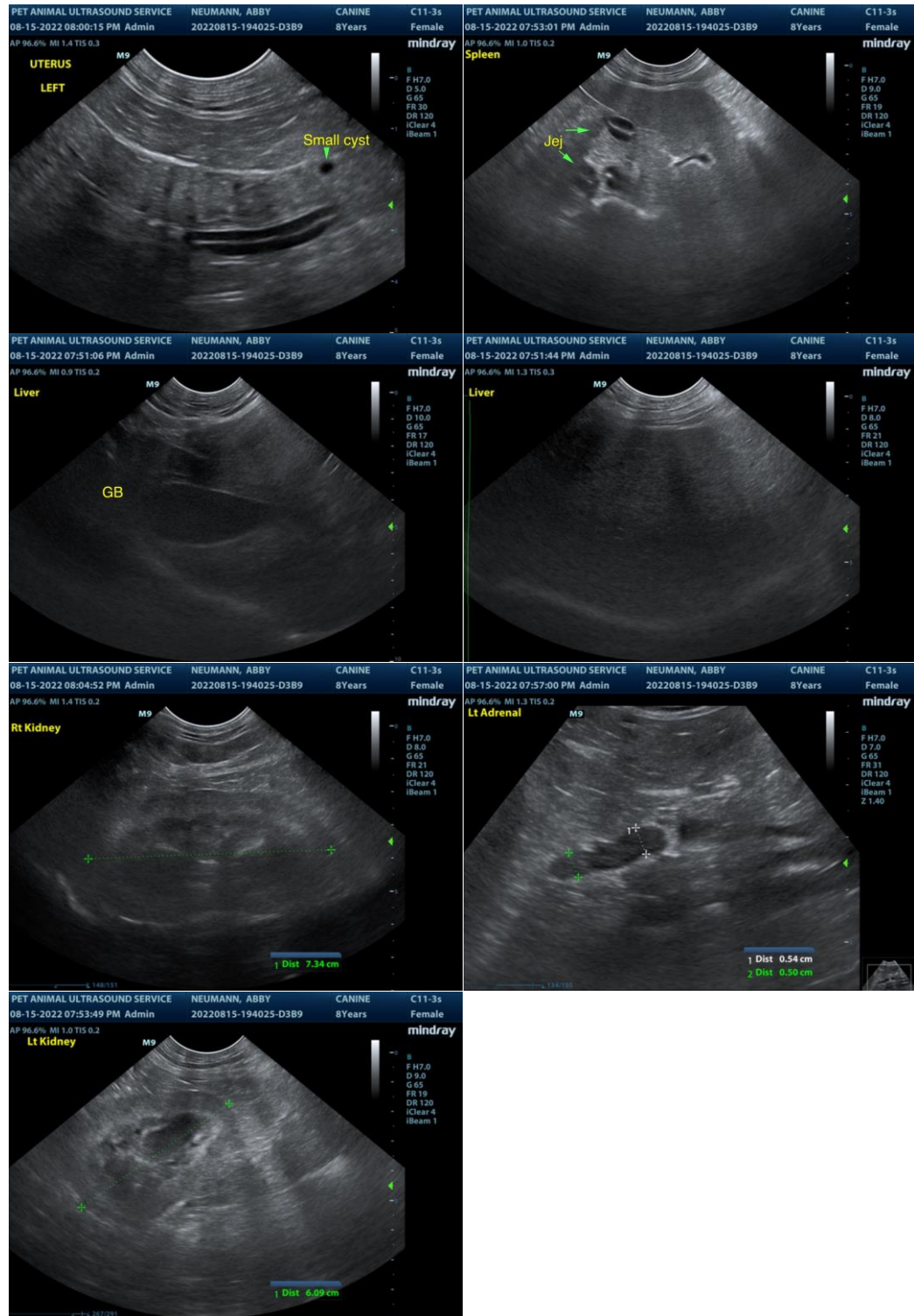
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The information and recommendations provided are based on the images presented by the referring veterinarian. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

Thank you for this referral. If the clinical or image interpretation does not parallel your findings or if I



PATIENT

can be of any further assistance please contact me.

Abby Neumann

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

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BREED

Doberman

SEX

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AGE

8yr

WEIGHT

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