



**PATIENT PRESENTING CLINICAL SIGNS**

Lucy Ledin PU/PD, picky appetite, stranguria and proteinuria. Unresponsive to meds. LDDST normal. On K/D diet. No response to desmopression trial. Lepto titre pending; bile acid pending. Recent acute blindness (retinal detachment)- R/O SARDS.

**SPECIES**

Canine Unresponsive to Enalapril, Proin, desmopression, enrofloxacin. Post-prandial.

**ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN**

**BREED**

**Urinary System**

Dachshund

The urinary bladder was overall non distended exhibiting subjective normal tone. Anechoic urine was present in the lumen with no uroliths or sediment. A small non-homogeneous pinpoint mineralized mass was present in the area of the cystourethral junction measuring ~ 2.1 cm x 0.84 cm. 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. No evidence of pelvic dilation was present. Pinpoint medullary mineral was present bilaterally. The left kidney measured 5.2 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**

17lb

**Adrenal Glands**

The left adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The left adrenal gland measured 0.51 cm width at the caudal pole and 0.47 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 0.55 cm width at the caudal pole.

**INTERPRETED BY**

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

**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.

**IMAGING PERFORMED BY**

Pamela Harrigan, RDCS

**Liver**

The liver presented mildly 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 primarily anechoic luminal content and minor non-dependent echogenic debris. No evidence of gallbladder or peripheral gallbladder inflammation was present. 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 contained variably echogenic non-shadowing ingesta with no signs of ileus, obstruction or foreign material.

**DATE**

11/28/2022



**PATIENT**

Lucy Ledin

The small intestine presented intact wall layering with 1:3 muscularis/mucosa ratio. Minor non-specific duodenal mucosal speckling was present. The lumen of the small intestine contained non-shadowing ingesta/chyme with no signs of ileus, obstruction or foreign material.

**SPECIES**

Canine

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

**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**

Dachshund

**Free Abdomen**

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

**SEX**

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**ULTRASONOGRAPHIC FINDINGS**

**AGE**

12yr

- Urinary bladder neck/proximal urethral mass-strongly suggestive of neoplastic criteria
- Mild chronic renal changes
- Mild vacuolar hepatopathy pattern
- Mild gallbladder debris (non-mucocele)
- Unremarkable GI tract with generalized gastrointestinal ingesta-suspect post prandial presentation
- Minor pancreatic remodeling
- Normal bilateral adrenal glands-no evidence of adrenal tumors

**WEIGHT**

17lb

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

**INTERPRETED BY**

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

A cytospin cytology of a free catch urine sample +/- screening BRAF assay is warranted. The urinary bladder neck and proximal urethra mass did not overtly appear to be obstructive to urine outflow however continued monitoring for progressive stranguria is advised. Correlation with pending diagnostic is suggested although hepatic functionality is assumed to be normal without evidence of significant hepatic pathology.

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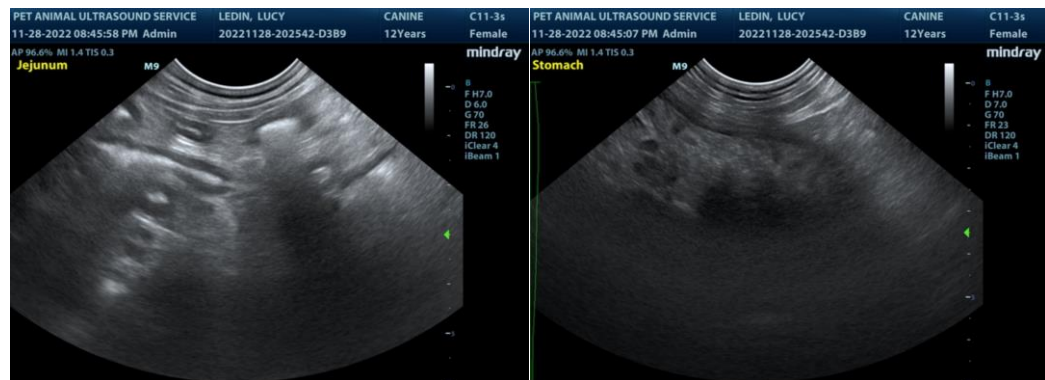
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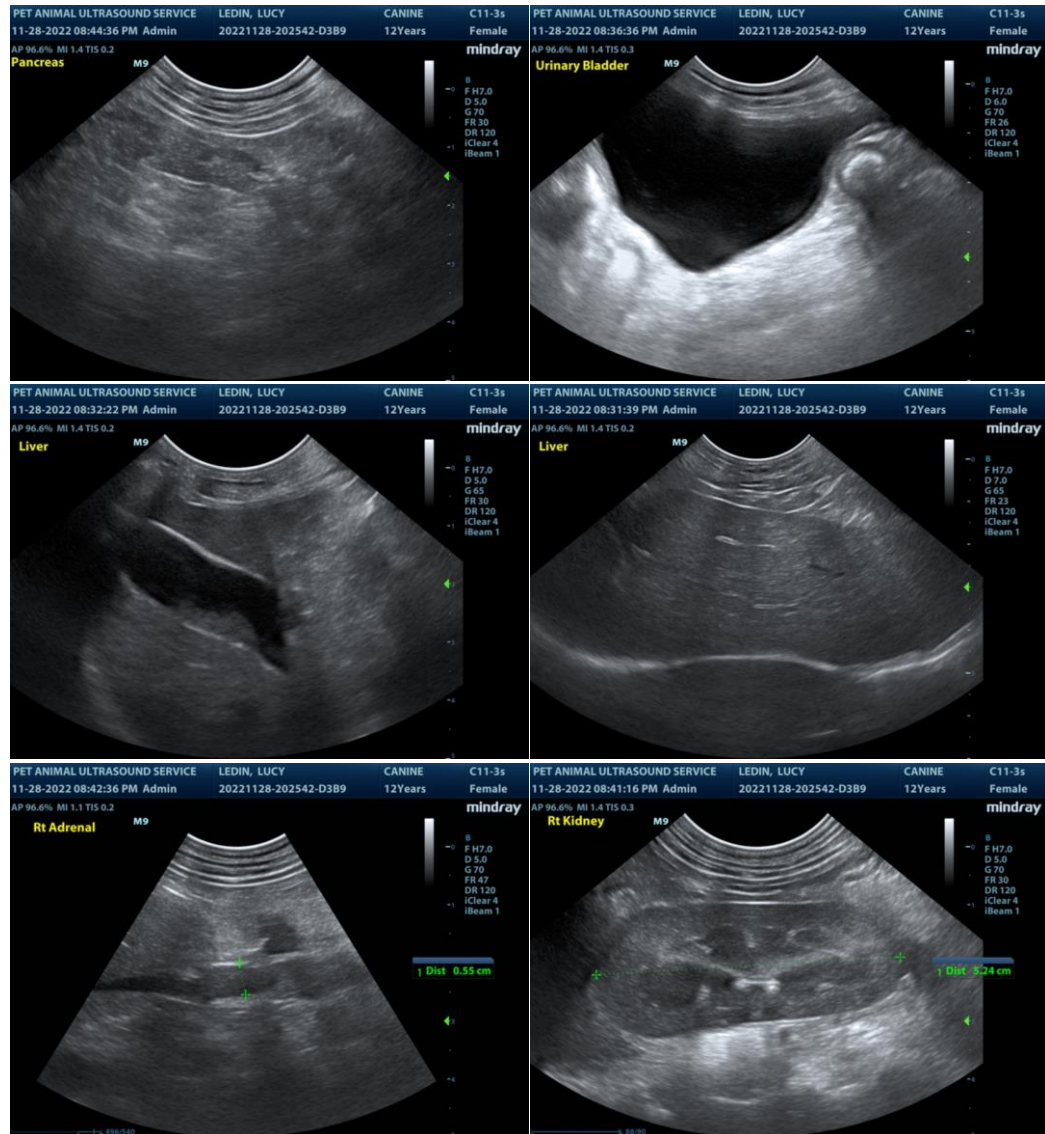
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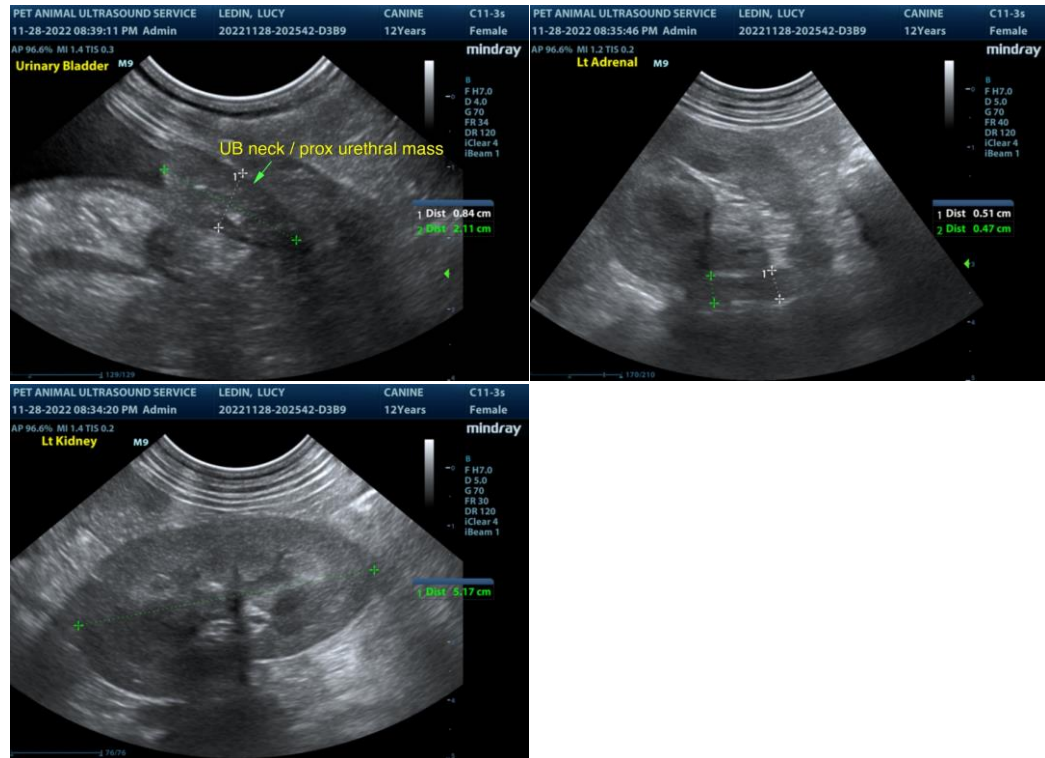
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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)

info@SonoPath.com