

**PATIENT PRESENTING CLINICAL SIGNS**

Bella Trenholm Clinically normal, but progressively elevated ALP (830) and Lipase (395)

**SPECIES ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN**

Canine

**Urinary System**

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

BREED

Pembroke Welsh Corgi

Normal size and margination was 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 loss of corticomedullary symmetry and definition expected for the age of the patient. No evidence of pelvic dilation was present. Mild medullary mineral present in both kidneys. Scant pyelectasia and small cortical cyst noted in the right kidney. The right kidney measured 6.3 cm. The left kidney measured 6.2 cm.

SEX

Spayed Female

AGE

13 Years

**Adrenal Glands**

The bilateral adrenal glands exhibited subtle subjective prominent size. Mild parenchyma heterogeneity and mild capsule asymmetry was present without suspicion for overt neoplasia. The left adrenal gland measured 0.61 cm at the cranial pole and 0.70 cm at the caudal pole. The right adrenal gland measured 0.59 cm at the cranial pole and 0.71 cm at the caudal pole.

WEIGHT

30 Pounds

**Spleen**

**INTERPRETED BY**

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

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 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 normal in size and overall appearance with very minor particulate luminal debris primarily in the gallbladder neck and cystic biliary duct. The common bile duct was normal.

**HOSPITAL NAME**

Littleton AH

**Gastrointestinal**

**REFERRING VET**

Dr. Christy Cox

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. Gastric body wall measured 0.43 cm.

**INVOICE**

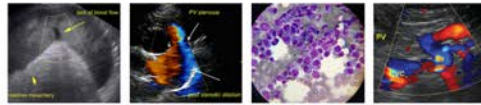
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The small intestine presented intact wall layering with 1:3 muscularis/mucosa ratio. The lumen of the small intestine was empty with no signs of ileus, obstruction or foreign material. Duodenum wall measured 0.46 cm. Jejunum wall measured 0.41 cm.

**DATE**

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



**PATIENT** *Pancreas*

Bella Trenholm The pancreas was subtly prominent in size with mild asymmetrical contour and non-homogeneous to mildly echogenic parenchyma.

**SPECIES** *Free Abdomen*

Canine Intermittent, mildly prominent to enlarged mesenteric and medial iliac lymph nodes were present. These lymph nodes were not consistent with neoplastic or inflammatory criteria, and incidental. The lymph node was essentially isoechoic to adjacent omentum without evidence of peripheral inflammation and maintaining a normal width: length ratio (<0.5).

**BREED**

Pembroke Welsh Corgi

**ULTRASONOGRAPHIC FINDINGS**

**SEX**

Spayed Female

- Benign hepatopathy
- Very minor gallbladder debris – non-mucocele, incidental
- Mildly non-homogeneous to echogenic pancreas – age related pancreatic changes, remodeling owing to previous inflammation, or chronic pancreatitis possible.
- Bilateral chronic renal changes with mild medullary mineral and scant right kidney pyelectasia – Pyelectasia of the right kidney could be consistent with pyelonephritis, chronic renal disease, secondary to PU/PD or fluid therapy (if applicable), other.
- Subjective mild prominent bilateral adrenal glands – non-specific.

**AGE**

13 Years

**WEIGHT**

30 Pounds

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

Given the lack of clinical signs suggestive of endocrinopathy, the subjective mild prominent bilateral adrenal glands are non-specific and may be a patient variant. Overall, the appearance of the liver is non-specific, yet consistent with benign hepatopathy. Primary concern for vacuolar hepatic changes/idiopathic vacuolar hepatopathy and potential for minor non-clinical cholestasis given the ALP elevation. Inflammatory hepatopathy is possible, yet thought less likely. No evidence of hepatic neoplastic criteria. Hepatosupportive medications including Ursodiol may prove beneficial.

**INTERPRETED BY**

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

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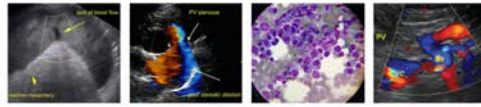
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**PATIENT**

Bella Trenholm

**SPECIES**

Canine

**BREED**

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**SEX**

Spayed Female

**AGE**

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**WEIGHT**

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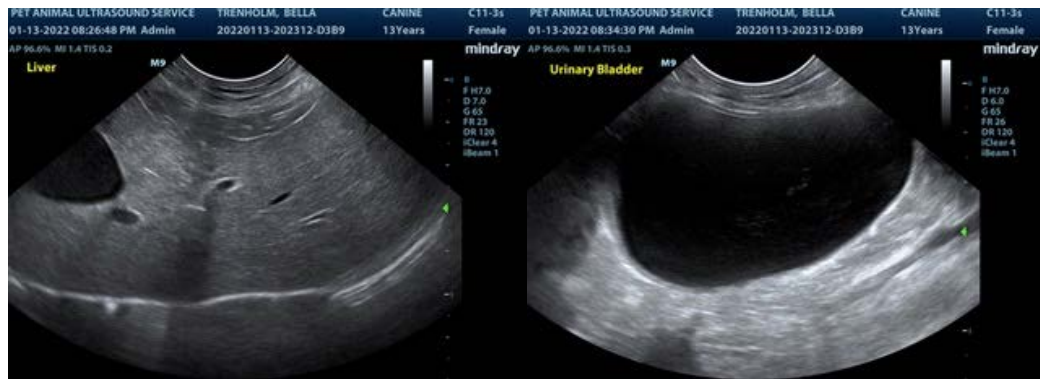
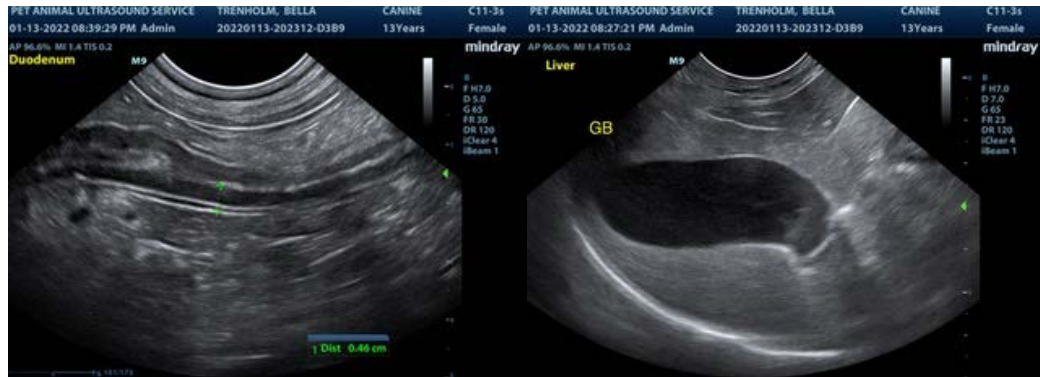
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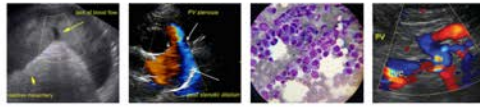
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**PATIENT**

Bella Trenholm

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.

**SPECIES**

Canine

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.

**BREED**

Pembroke Welsh Corgi

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Spayed Female

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