



**PATIENT PRESENTING CLINICAL SIGNS**

Gus Keeton tremor events per owner - r/o: anxiety vs seizures, open dental disease overweight

**SPECIES** Abnormal PE/Chem/CBC/UA Results: Elevation in ALP may be age related or indication of underlying liver disease.

Canine Current Medications Fluoxetine 20mg capsules, 1 capsule once daily

**BREED ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN**

Cairn Terrier **Urinary System**

**SEX** The urinary bladder was normal in size and tone. A solitary ventroapical polyp extending into the bladder lumen measuring 0.67 cm in diameter was present. The polyp was not overtly suggestive of neoplastic criteria although this cannot be definitively excluded. 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.

**MN** 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 to moderate loss of corticomedullary symmetry and definition expected for the age of the patient.

**AGE** No evidence of pelvic dilation was present. Pinpoint areas of medullary mineral were present. The left kidney measured 5.5. cm in length. The right kidney measured 5.7 cm in length.

**WEIGHT** 34lb

**INTERPRETED BY** The area of the aortic trifurcation was free of pathology.

R. McKenzie Daniel, DVM, DABVP (Canine and Feline) The area of the residual prostate appeared normal and free of pathology.

**Adrenal Glands**

The left adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The left adrenal gland measured 0.72 cm width at the caudal pole and 0.54 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 0.58 cm width at the caudal pole.

**IMAGING PERFORMED BY**

Sara Hansen

**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.

**HOSPITAL NAME**

Countryside Animal Clinic

**REFERRING VET**

Dr. Cox **Liver**

**INVOICE** 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 non-distended in size with primarily anechoic luminal content and minor echogenic non-organized luminal debris. No evidence of gallbladder or peripheral gallbladder inflammation was present. The cystic and common bile ducts were normal.

11951ag

**DATE**

10/20/2022



## PATIENT

Gus Keeton

## SPECIES

Canine

## BREED

Cairn Terrier

## SEX

MN

## AGE

12yr

## WEIGHT

34lb

## INTERPRETED BY

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

## IMAGING PERFORMED BY

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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.

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.

## Pancreas

The pancreas was normal in size and contour with isoechoic to heterogeneous parenchyma compared to adjacent omentum. No signs of active inflammation or neoplasia.

## Free Abdomen

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

Potential mild increased intra-abdominal fat was noted.

## ULTRASONOGRAPHIC FINDINGS

- Solitary small urinary bladder polyp
- Vacuolar hepatopathy pattern-benign
- Mild gallbladder debris (non-mucocele)
- Mild chronic renal changes

## INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

No overt suspicion of underlying Cushing's syndrome given normal adrenal presentation and lack of reported clinical signs. Hepatosupportive medications such as Denamarin or Vitamin E as well as Ursodiol due to its antioxidant and immunomodulatory effects within the liver would be warranted, although these medications may not result in decreased hepatic enzyme levels.

A screening BRAF assay as well as sonographic monitoring of the urinary bladder polyp for evidence of progression with initial recheck in 4-6 weeks is recommended.



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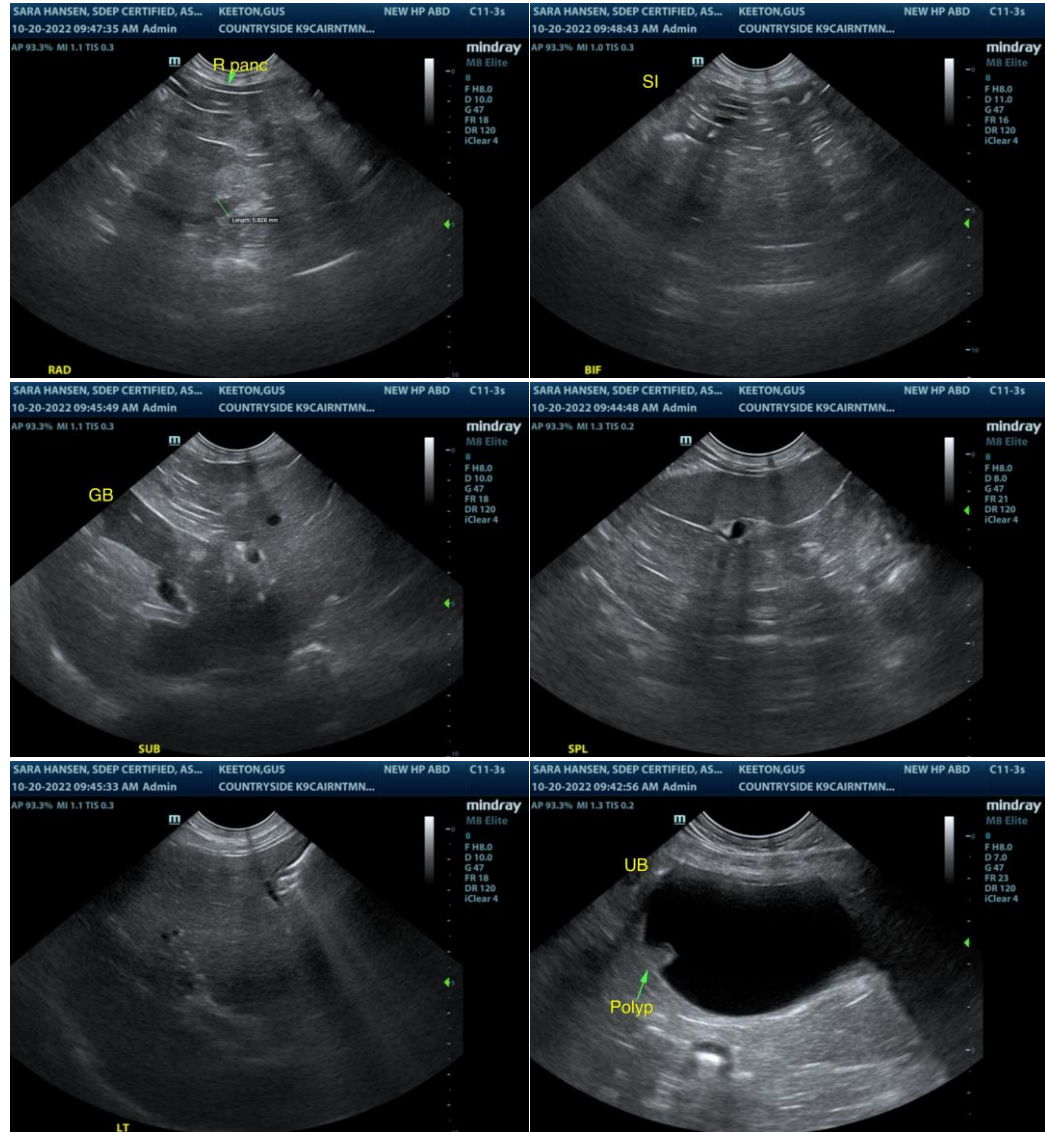
Dr. Cox

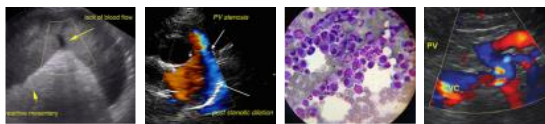
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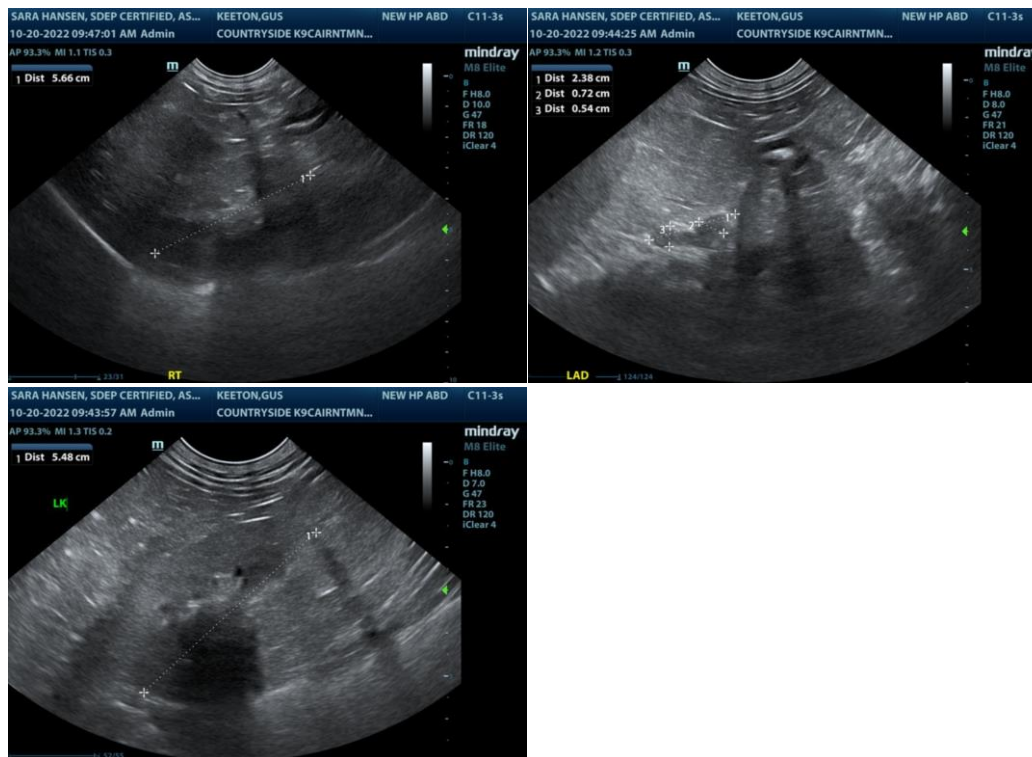
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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