



**PATIENT PRESENTING CLINICAL SIGNS**

Bebe Ahn Pu/pd breathing rapidly with very little exercise, shaking back legs, slightly blueish tongue colour after the exercise, mild abdominal pain with palpation,

**SPECIES** Abnormal PE/Chem/CBC/UA Results: Please see attached rads

Canine **ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN**

**BREED**

Border Collie

**SEX**

FS

**AGE**

11yr

**WEIGHT**

21kg

**INTERPRETED BY**

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

**IMAGING PERFORMED BY**

Kelly Reschny

**HOSPITAL NAME**

Downtown AH

**REFERRING VET**

Ahn

**INVOICE**

14570ag

**DATE**

08/11/2023

**Urinary System**

The urinary bladder, trigone, cystourethral junction, and visible pelvic urethra to a depth of 3 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.

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. The left kidney measured 5.4 cm in length. The right kidney measured 5.9 cm in length.

The area of the aortic trifurcation was 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 0.66 cm width at the caudal pole and 2.3 cm length. The right adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The right adrenal gland measured 0.69 cm width at the caudal pole and 3.3 cm length.

**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.

**Liver/Gallbladder**

The liver presented mild to moderately enlarged in size. A uniform spherical isoechoic mass was present in the mid to left aspect of the ventrocaudal liver measuring ~ 10 cm in diameter. The mass appeared to connect to liver parenchyma by a small section of liver tissue measuring ~ 2-3 cm in width. The mass appeared to extend into the cranial mid to left abdomen effacing the craniomedial spleen yet did not appear to involve the spleen. 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 mild congealed hyperechoic sediment. The cystic and common bile ducts were normal.

**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.



**PATIENT**

Bebe Ahn

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.

**SPECIES**

Canine

**Pancreas**

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.

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Border Collie

**Free Abdomen**

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

**SEX**

FS

**ULTRASONOGRAPHIC FINDINGS**

**AGE**

11yr

- Hepatomegaly with uniform ventrocaudal hepatoma like mass.
- Mild congealed gallbladder sediment (non- mucocele).
- Mild chronic renal changes.
- Sonographically normal spleen.

**WEIGHT**

21kg

**INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS**

The ventrocaudal hepatic mass is not overtly consistent with neoplastic criteria and is suggestive of a hepatoma like mass or similar. Potential for low grade neoplasia cannot be definitively excluded. Assuming normal clotting status a hepatic mass and hepatic parenchyma FNA for screening cytology is warranted for further assessment. The mass appears to be amendable to surgical resection based on location and mild area of parenchymal involvement. Subjectively the hepatic mass likely involves the ventrocaudal aspect of the left medial or right medial liver lobes. Sonographic monitoring of the liver mass for evidence of progression would be a more conservative approach.

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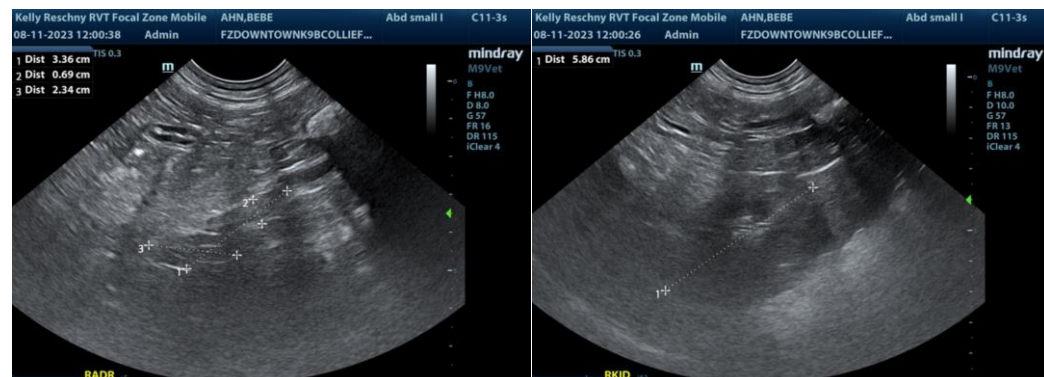
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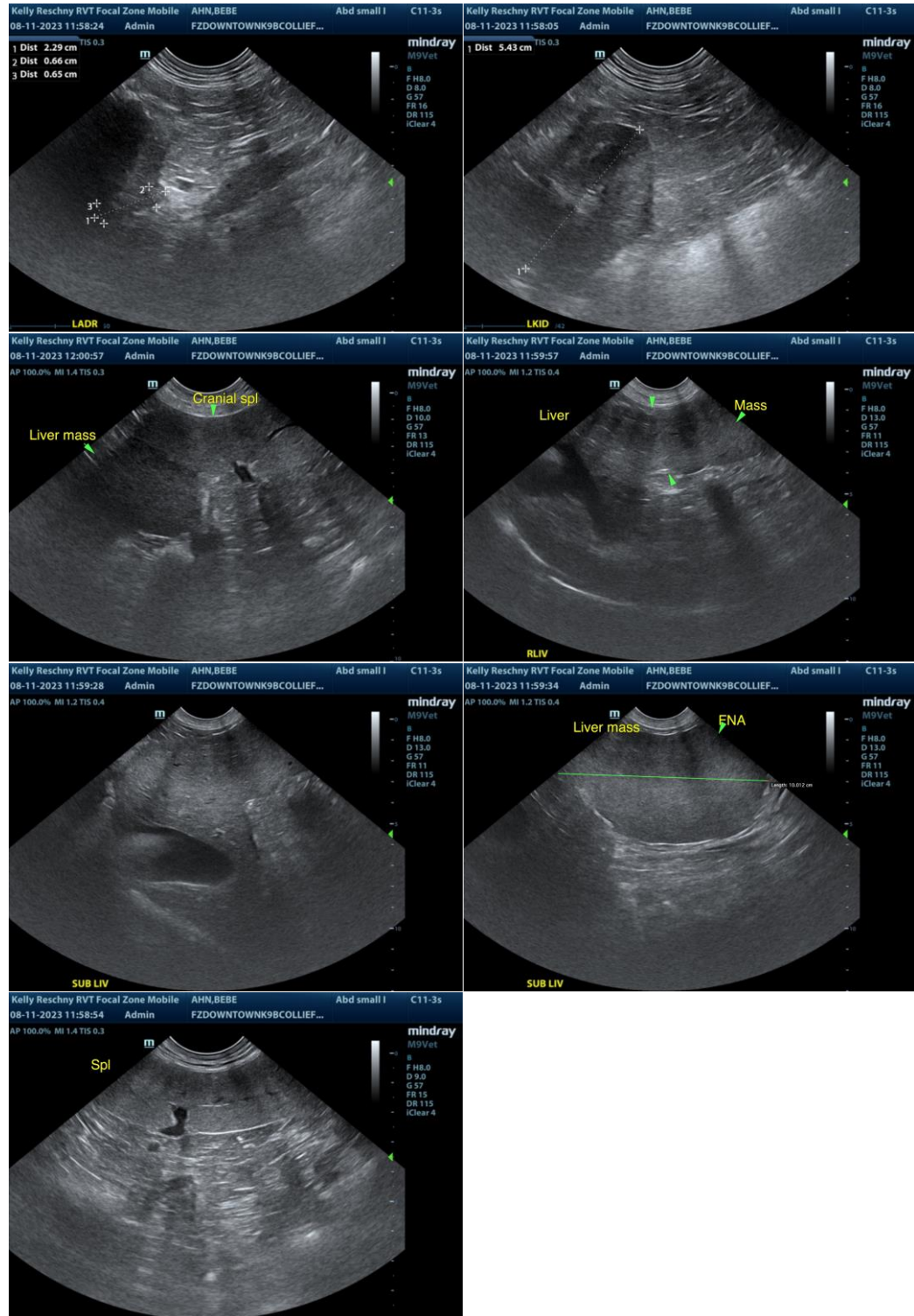
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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



**PATIENT** can be of any further assistance please contact me.

Bebe Ahn **R. McKenzie Daniel, DVM, DABVP (Canine / Feline Practice)**

info@SonoPath.com

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