



PATIENT PRESENTING CLINICAL SIGNS

Luna Stark Elevated liver enzymes and has had persistent bloody vaginal discharge. Was spayed as an adult during a difficult birth/delivery. No meds currently but has just started to take Milk Thistle.

SPECIES Abnormal PE/Chem/CBC/UA Results: ALT 240

Canine

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Urinary System

BREED Border Collie The urinary bladder exhibited overall normal size and tone containing anechoic urine with no sediment or calculi. Overall normal appearing urinary bladder walls were noted with a solitary, small, discrete, primarily homogeneous mass lesion present in the area of the urinary bladder neck measuring approximately 1.1 cm in diameter. This small mass lesion did not appear to be obstructive to urinary outflow, given the lack of urinary bladder distention. The proximal urethra was indistinctly visualized to a depth of 2.0 cm.

SEX

FS

AGE

10 years

No evidence of pathology was noted in the area of the uterine remnant, i.e., stumpy pyometra, neoplasia, etc.

No evidence of medial iliac or sublumbal lymphadenopathy.

WEIGHT

21.8 kg

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 5.1 cm in length. The right kidney measured 5.3 cm in length.

INTERPRETED BY

R. McKenzie Daniel,
DVM, DABVP

Adrenal Glands

IMAGING PERFORMED BY

Crystal Hill

The left adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The left adrenal gland measured 1.9 cm length x 0.60 cm width at the caudal pole. The right adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The right adrenal gland measured 1.9 cm length x 0.72 cm width at the caudal pole.

HOSPITAL NAME

Chippawa AH

Spleen

REFERRING VET

Dr. Van Leeuwen

The spleen exhibited primarily finely textured parenchyma which was hyperechoic to the liver and renal cortical parenchyma. Mild generalized parenchyma heterogeneity was present without evidence of nodular changes. 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. The parenchymal heterogeneity is likely consistent with benign changes such as extramedullary hematopoiesis or age-related remodeling with minor potential for inflammatory or neoplastic disease. Mild splenic folding, which is not indicative of underlying splenic pathology and likely a patient variant, was present.

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Liver/ Gallbladder

DATE

10/12/22

The liver was subjectively normal in size, structure, and contour. The liver parenchyma was uniform and hypoechoic to the spleen with a mild coarse echotexture. The hepatic and portal vasculature were



PATIENT

Luna Stark

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.

Gastrointestinal

SPECIES

Canine

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.

BREED

Border Collie

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.

SEX

FS

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 were evident.

AGE

10 years

Free Abdomen

No overt lymphadenopathy or peritoneal effusion was present.

WEIGHT

21.8 kg

ULTRASONOGRAPHIC FINDINGS

- Non-distended urinary bladder with small discrete mass lesion at level of urinary bladder neck
- Mild age-related renal changes
- Low-grade hepatopathy - subjectively benign, potential low-grade inflammatory hepatopathy suspected

INTERPRETED BY

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DVM, DABVP

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

IMAGING PERFORMED BY

Crystal Hill

Urine C/S ideally on cystocentesis sterile urine sample to rule out underlying infection is recommended, although no evidence of overt urinary bladder sediment. Screening BRAF Assay may be considered although if negative, does not completely rule out potential for emerging neoplastic mass lesion i.e., transitional cell carcinoma. Cystoscopy may be ideal in this patient if possible.

HOSPITAL NAME

Chippawa AH

Sonographic monitoring of the small urinary bladder mass lesion for evidence of progression with initial recheck in 4 weeks would be a more conservative approach.

REFERRING VET

Dr. Van Leeuwen

Continued hepatosupportive medications with monitoring of ALT levels would be reasonable.

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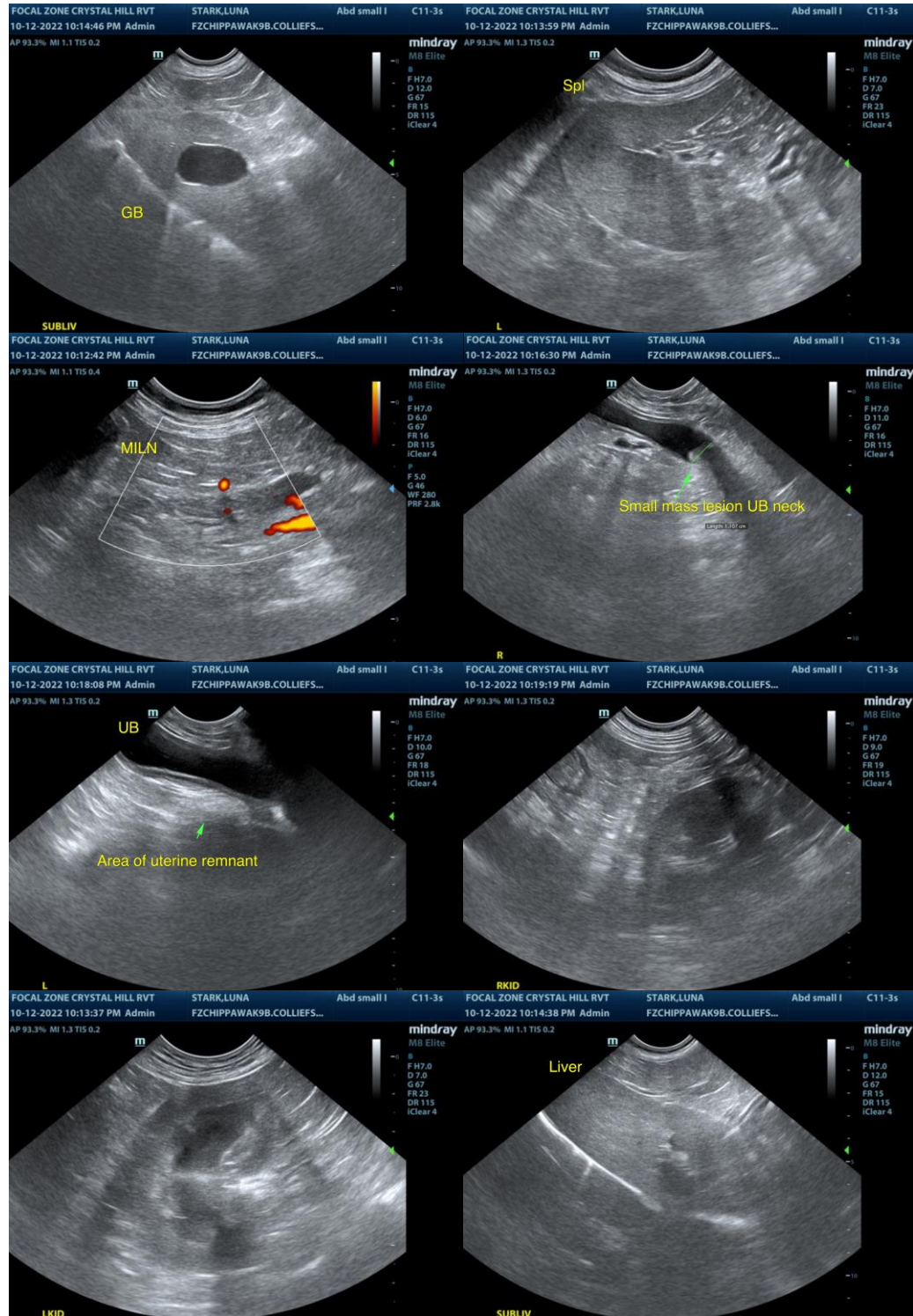
Dr. Van Leeuwen

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SPECIES

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Border Collie

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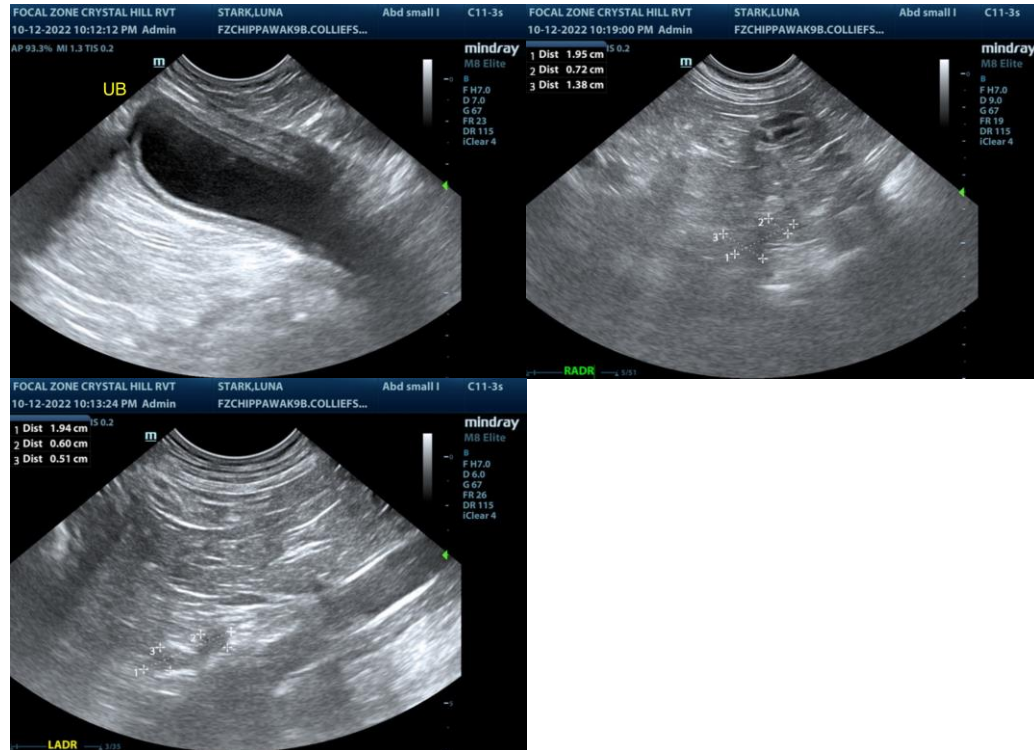
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.

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