



PATIENT

Oliver Frew

SPECIES

Canine

BREED

Shepherd Mix

SEX

Male Neutered

AGE

14Y

WEIGHT

43.5

INTERPRETED BY

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

IMAGING PERFORMED BY

Chrissy Krell, DVM

HOSPITAL NAME

Lake Region Small
Animal Center

REFERRING VET

Kendra Greiner,
DVM

INVOICE

73826

DATE

2-18-26

PRESENTING CLINICAL SIGNS

- Presented for a dental cleaning on 2/10/26, found elevated ALT and ALKP (previously normal) also has a murmur diagnosed previously (acquired). XR showed moderate constipation, notable gas in SI and slightly prominent spleen (did receive Acepromazine prior for xrays), liver mildly rounded and OA of spine.
- Started on gabapentin (d/c carprofen), Denamarin, and Amoxicillin. Recheck chem in 4-6 weeks.
- Currently on Benazepril 10mg - 2 tab PO SID, Adequan q monthly, Iverheart monthly

Abnormal PE/Chem/CBC/UA Results: AB PE: Heart murmur (dx in 10/2023), OA and stiffness AB Labs: ALT 300, ALKP 1958.

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Urinary System

The urinary bladder, trigone, cystourethral junction, and visible pelvic urethra to a depth of 3.0 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.

The area of the residual prostate appeared normal and free of pathology

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 mild loss of corticomedullary border demarcation. No evidence of pelvic dilation was present. The left kidney measured 6.2 cm in length. The right kidney measured 6.4 cm in length.

Adrenal Glands

The left adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The left adrenal gland measured - cm width at the cranial pole and 0.62 cm width at the caudal pole. The right adrenal gland was indistinctly visualized without overt pathology subjectively measuring 0.63 cm width at the caudal pole.

Spleen

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 normal in size and contour. 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.

Liver/ Gallbladder

The liver was subjectively normal in size, structure, and contour. Normal hepatic vascular volume was present. A moderate sized mixed echogenic mass occupying the majority of the caudal liver was seen measuring approximately 8 x 7 cm. The remainder of the hepatic parenchyma exhibited normal echogenicity with mild coarse echotexture. The hepatic and portal vasculature were normal in appearance without signs of congestion.



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The gallbladder was non-distended in size with thin walls and mild nonorganized gallbladder debris. 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 contained mild echogenic, nonshadowing ingesta most consistent with food and without signs of 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 formed feces in lumen.

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.

Free Abdomen

No overt lymphadenopathy or peritoneal effusion was present.

ULTRASONOGRAPHIC FINDINGS

- Liver mass.
- Mild nonorganized gallbladder debris (nonmucocele).
- Age related spleen – benign.
- Age related renal changes.

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Although sampling is required for further assessment, the liver mass is suggestive of neoplastic criteria i.e. carcinoma or other with benign etiologies such as hyperplasia or granuloma thought less likely. If normal clotting status, liver mass FNA cytology warranted for initial clarification. Liver mass biopsy required for definitive diagnosis.



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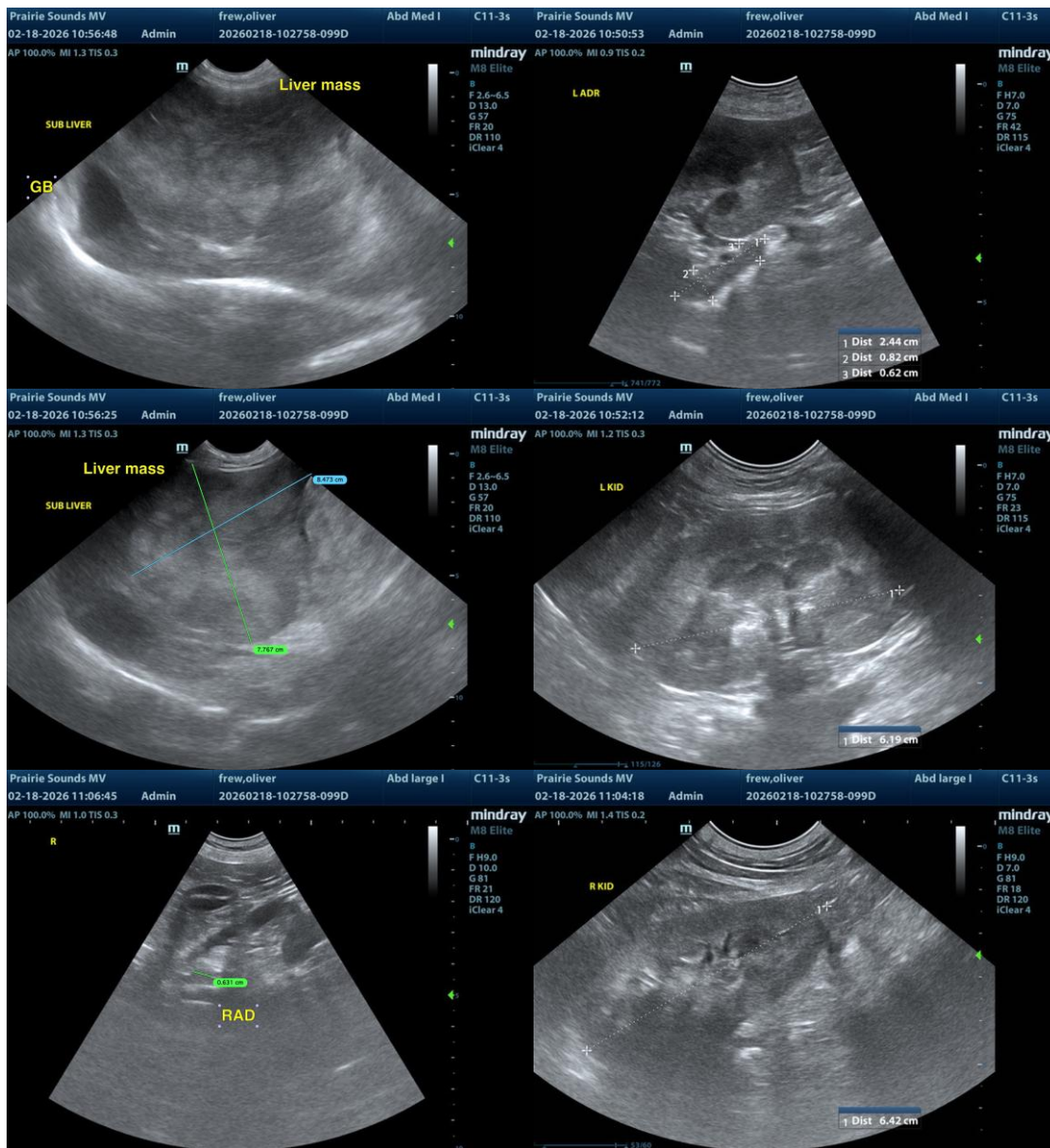
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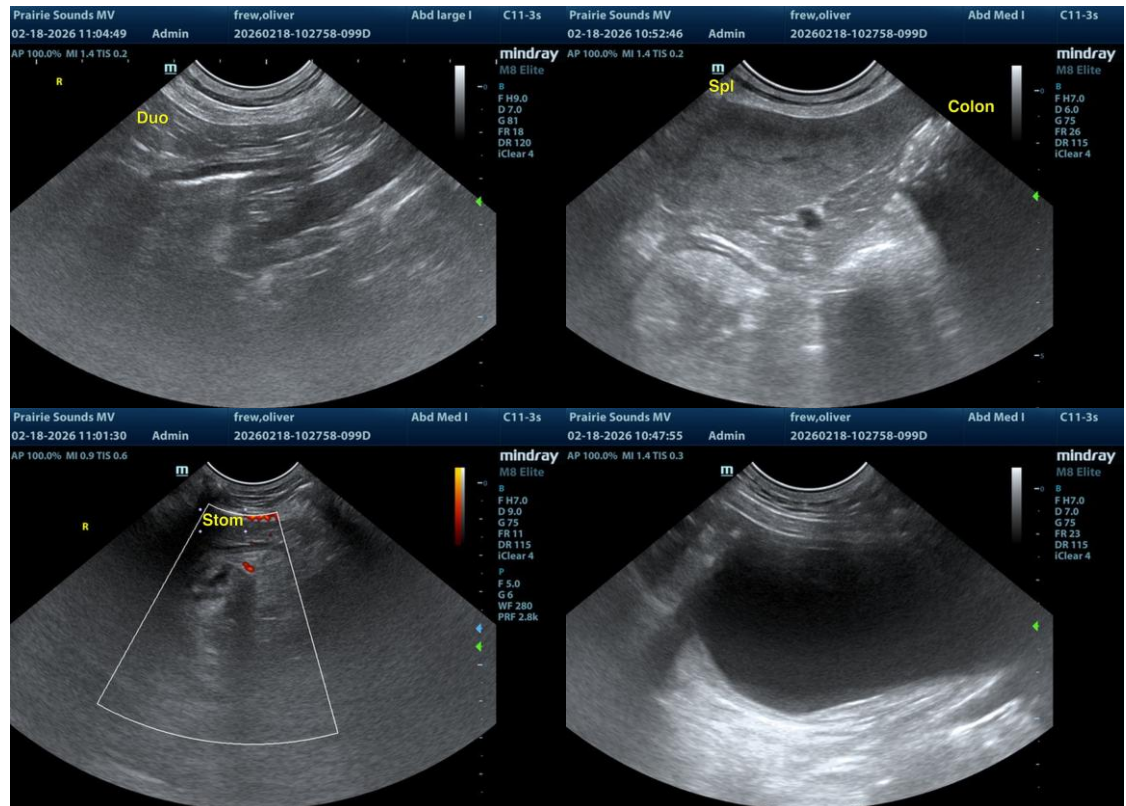
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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