



PATIENT PRESENTING CLINICAL SIGNS

Toby McJannet Elevated liver enzymes and hypothyroidism. Also elevated CPL. Currently on Thyrotabs and Hepato Support.
Abnormal PE/Chem/CBC/UA Results: Elevated liver enzymes and CPL.

SPECIES

Canine

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Urinary System

BREED

Poodle X

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.

SEX

Neutered Male

The residual prostate was sonographically unremarkable.

AGE

13 Years

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 loss of corticomedullary symmetry and definition expected for the age of the patient. No evidence of pelvic dilation was present. The right kidney measured 5.0 cm. The left kidney measured 5.1 cm.

The area of the aortic trifurcation was free of pathology.

WEIGHT

22.6 Pounds

Adrenal Glands

The bilateral adrenal glands were normal in size. Mild parenchyma heterogeneity and mild capsule asymmetry was present without suspicion for overt neoplasia. The left adrenal gland measured 0.7 cm at the cranial pole and 0.59 cm at the caudal pole. The right adrenal gland measured 0.47 cm at the caudal pole.

INTERPRETED BY

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

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. Potential coalescing hyperechoic nodules in the medial splenic parenchyma or capsular fibrosis. 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.

IMAGING PERFORMED BY

Crystal Hill

HOSPITAL NAME

The Maples AH

Liver

The liver exhibited mild generalized enlargement. The liver parenchyma was mildly nonuniform and hypoechoic to the spleen with a moderate coarse echotexture and subjective mild to benign parenchymal remodeling. The hepatic and portal vasculature were normal in appearance without signs of congestion. The gallbladder exhibited mild distention, containing moderate non-dependent to congealed emerging organized echogenic luminal debris. No evidence of peripheral inflammation. The common bile duct was normal.

REFERRING VET

Dr. Kazienko

INVOICE

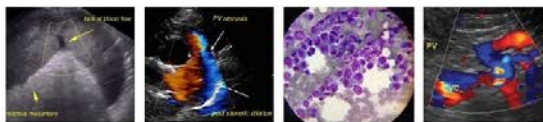
26241

Gastrointestinal

The stomach presented intact wall layering with a normal wall layer ratio. The lumen of the stomach contained mild echogenic, nonshadowing ingesta/chyme most consistent with post prandial presentation without signs of ileus, obstruction or foreign material.

DATE

10/13/21



PATIENT

Toby McJannet

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 semiformal to soft feces.

SPECIES

Canine

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.

BREED

Poodle X

Free Abdomen

No overt lymphadenopathy or peritoneal effusion was present.

SEX

Neutered Male

ULTRASONOGRAPHIC FINDINGS

AGE

13 Years

- Hepatopathy – subjectively benign, vacuolar hepatopathy, inflammatory hepatic or hepatobiliary disease, cholestasis (given the presence of gallbladder debris), with hepatic neoplasia considered and unlikely differential diagnosis.
- Moderate non-dependent to mildly congealed gallbladder debris, possible early/emerging gallbladder mucocele
- Heterogeneous pancreas – non-specific, age related pancreatic changes, minor remodeling owing to previous inflammation, or low-grade to chronic inflammation possible.
- Moderate chronic renal changes

WEIGHT

22.6 Pounds

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

INTERPRETED BY

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

Further renal staging to include urine C/S and protein: creatinine ratio on sterile urine sample may be considered.

IMAGING PERFORMED BY

Crystal Hill

Ultrasound guided FNA of the liver (assuming normal clotting status and using 25-gauge needle) may be considered for screening cytology, primarily to assess for evidence of inflammatory cells. Potential for emerging to early gallbladder mucocele given that mucoceles are overrepresented in patients with hypothyroidism. Continued monitoring for evidence of increasing cholestasis or cranial abdominal/subxiphoid pain on palpation recommended. Hepatosupportive medications including Denamarin and Ursodiol may prove beneficial. Sonographic monitoring of the gallbladder is recommended, particularly if evidence of increasing cholestasis or cranial abdominal discomfort on palpation.

HOSPITAL NAME

The Maples AH

REFERRING VET

Dr. Kazienko

INVOICE

26241

DATE

10/13/21



PATIENT

Toby McJannet

SPECIES

Canine

BREED

Poodle X

SEX

Neutered Male

AGE

13 Years

WEIGHT

22.6 Pounds

INTERPRETED BY

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

**IMAGING
PERFORMED BY**

Crystal Hill

HOSPITAL NAME

The Maples AH

REFERRING VET

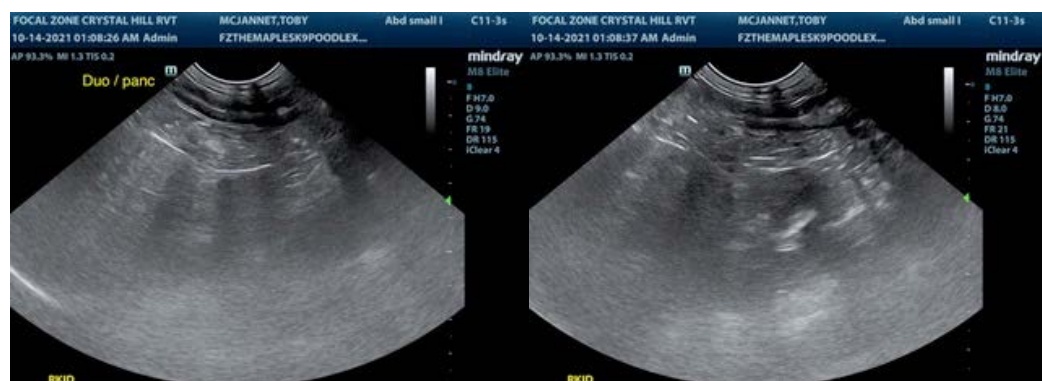
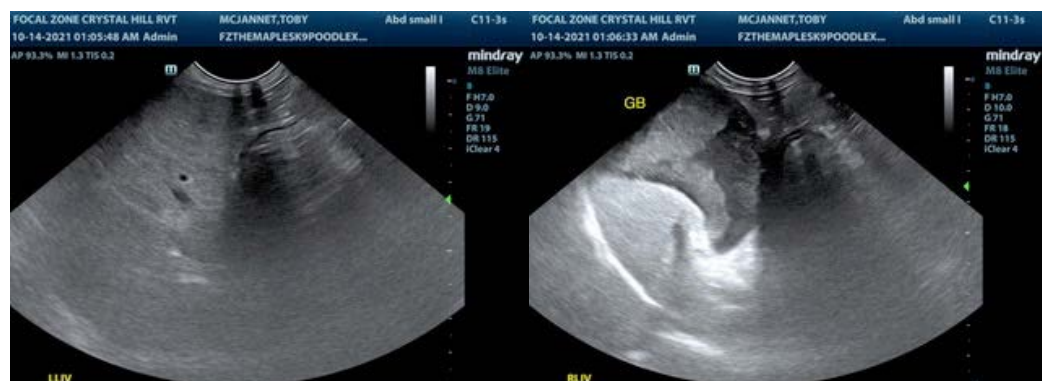
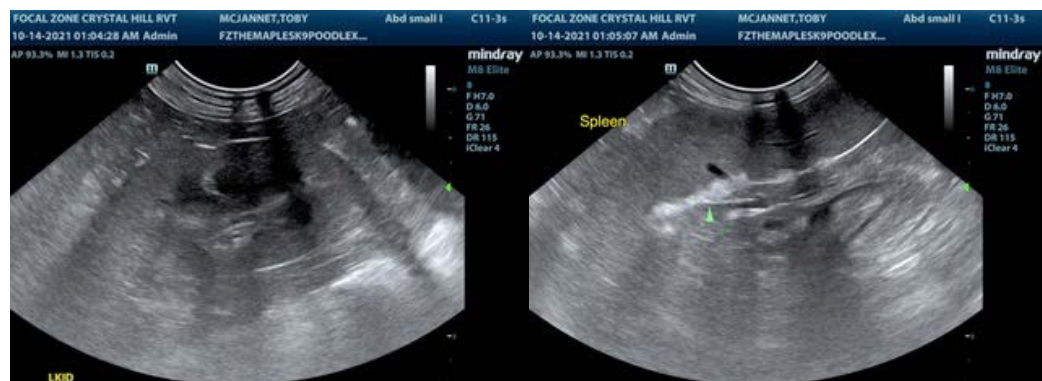
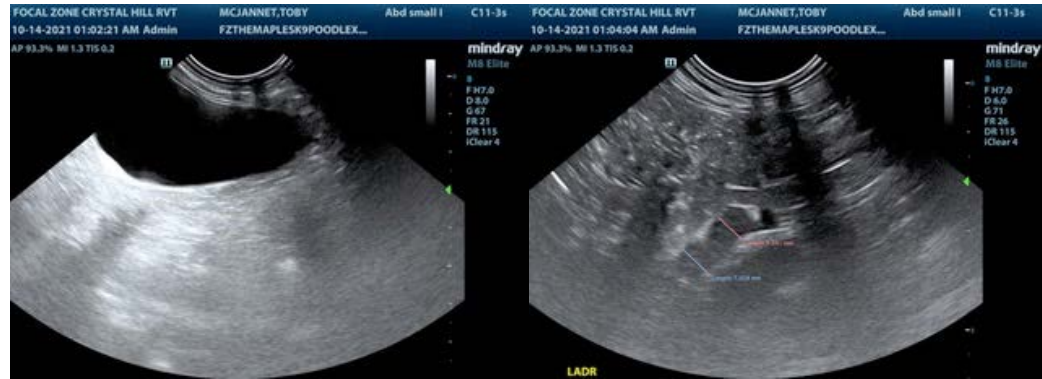
Dr. Kazienko

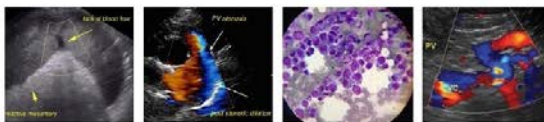
INVOICE

26241

DATE

10/13/21





PATIENT

Toby McJannet

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

Poodle X

R. McKenzie Daniel, DVM, DABVP (Canine / Feline Practice)
info@SonoPath.com

SEX

Neutered Male

AGE

13 Years

WEIGHT

22.6 Pounds

INTERPRETED BY

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

**IMAGING
PERFORMED BY**

Crystal Hill

HOSPITAL NAME

The Maples AH

REFERRING VET

Dr. Kazienko

INVOICE

26241

DATE

10/13/21