



PATIENT

Coco Summer Kirby

SPECIES

Canine

BREED

ShihTzu

SEX

Spayed Female

AGE

11 Years

WEIGHT

9.8 Pounds

INTERPRETED BY

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

**IMAGING
PERFORMED BY**

Dr. Rivera

HOSPITAL NAME

DPC Veterinary
Hospital

REFERRING VET

Dr. Rivera

INVOICE

20066

DATE

12/13/22

PRESENTING CLINICAL SIGNS

History: 11y sf shih tzu presents for ultrasound, ENZYMES ARE HIGH IN LIVER, PREVIOUS DR RECOMMENDED ULTRASOUND, P WAS DIAGNOSED ANEMIC AND JAUNDICE
Abnormal PE/Chem/CBC/UA Results: CV/Respiratory: Normal heart rate and rhythm, no murmur, pulses strong and synchronous, normal bronchovesicular sounds. EENT: Clear AU. OU: corneal pigmentation and mild thick mucoid discharge, No nasal discharge. No cough on tracheal palpation. Oral cavity: Moderate to severe periodontal disease Musculoskeletal: BCS = 3/9. Ambulatory x 4. Moderate to severe generalized muscle atrophy Uro/Perineum: No significant lesions Abd/GI: Soft, non-painful. Suspected cranial organomegaly. No masses or fluid wave palpated Lymph Nodes: No peripheral lymphadenopathy Neurological: Alert and appropriate. No significant abnormalities Skin: Good hair coat. No ectoparasites seen Mentation: BAR Hydration: < 5% dehydration Fecal: Not performed today

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Urinary System

The urinary bladder, trigone, cystourethral junction, and visible pelvic urethra to a depth of 2.0 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.

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 3.7 cm in length. The right kidney measured 4.7 cm in length.

Adrenal Glands

The left adrenal gland was normal in size. Mild parenchyma heterogeneity and mild capsule asymmetry was present without suspicion for overt neoplasia. The left adrenal gland measured 0.47 cm width in the cranial pole and 0.46 cm width in the caudal pole.

The right adrenal gland was not definitively visualized.

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 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.

Liver

The liver exhibited moderate to possible marked enlargement. Variable lobar swelling was noted, resulting in symmetrical yet rounded hepatic capsule contour. Ill-defined primarily uniform hypoechoic areas of hepatic parenchyma were noted, in combination with uniform hyperechoic hepatic parenchyma in the mid liver. An example of lobar swelling with hypoechoic parenchyma measured approximately 5.0 cm in diameter.



PATIENT	The gallbladder was non-distended in size with primarily anechoic content with minor echogenic nonorganized luminal debris without evidence of gallbladder or peripheral gallbladder inflammatory criteria. The common bile duct was not definitively visualized without overt evidence of posthepatic obstruction.
Coco Summer Kirby	
SPECIES	Gastrointestinal
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	Pancreas
ShihTzu	The pancreas exhibited subtle prominent size with mildly rounded pancreatic capsule contour with heterogeneous to mildly hyperechoic parenchyma compared to adjacent omentum.
SEX	Free Abdomen
Spayed Female	Normal visible colon wall layers were present with apparent formed feces in lumen.
AGE	ULTRASONOGRAPHIC FINDINGS
11 Years	<ul style="list-style-type: none"> Generalized moderate to marked hepatomegaly, exhibiting lobar swelling and regional hypoechoic parenchyma Nondistended gallbladder with mild luminal debris (non-mucocele)- no overt posthepatic obstruction Mild chronic renal changes Possible concurrent low-grade pancreatitis
WEIGHT	INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS
9.8 Pounds	<p>Although sampling is required for further assessment, primary concern for infiltrative hepatic neoplasia is warranted, although nonspecific hepatitis/cholangiohepatitis or other hepatopathy is possible. Assuming normal clotting status and using a 25-gauge needle, FNA hepatic cytology is recommended for further assessment. Empirical hepatosupportive medications may prove beneficial. Three view chest radiographs are suggested if not done. Guarded prognosis pending hepatic cytology.</p>
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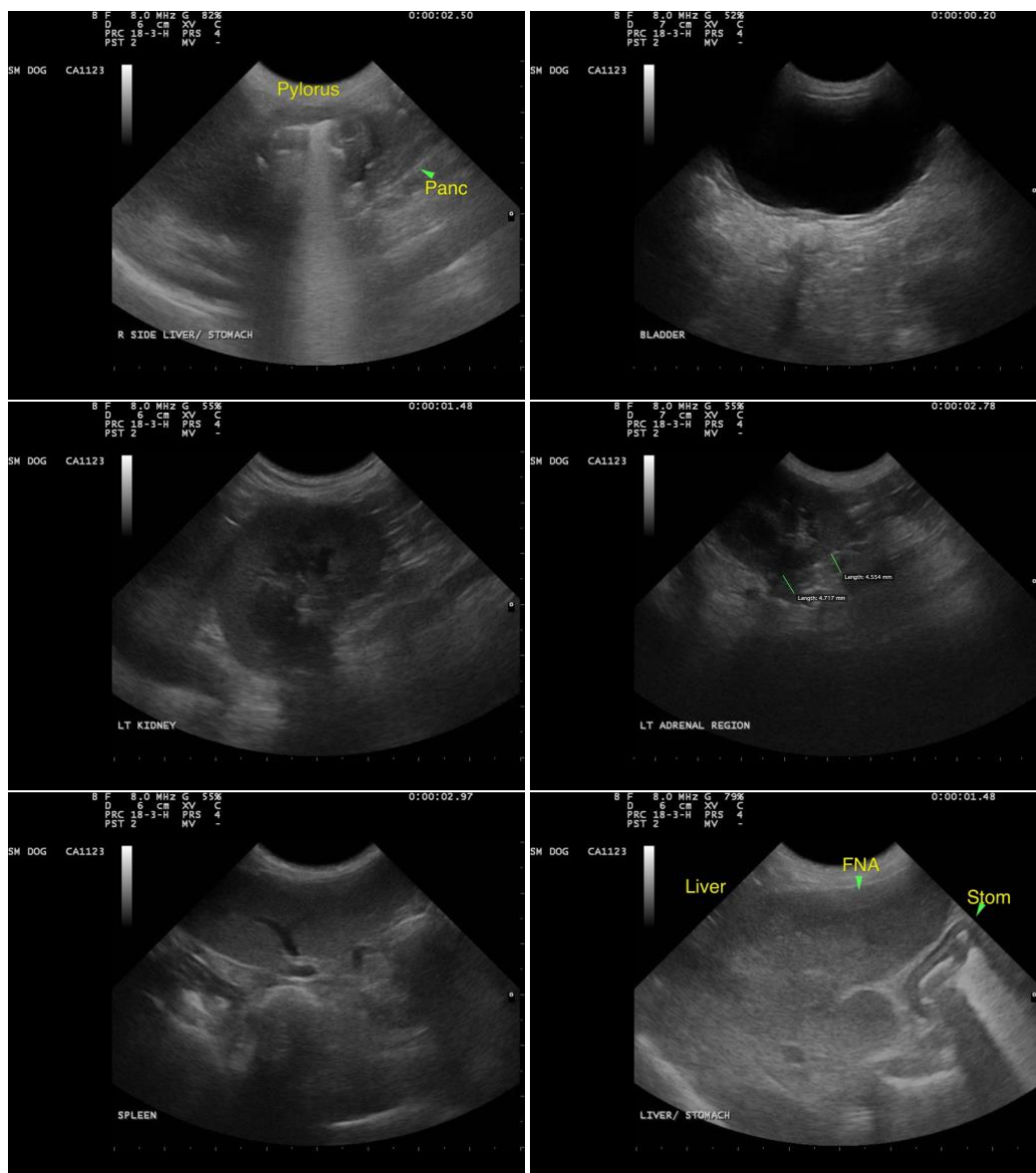
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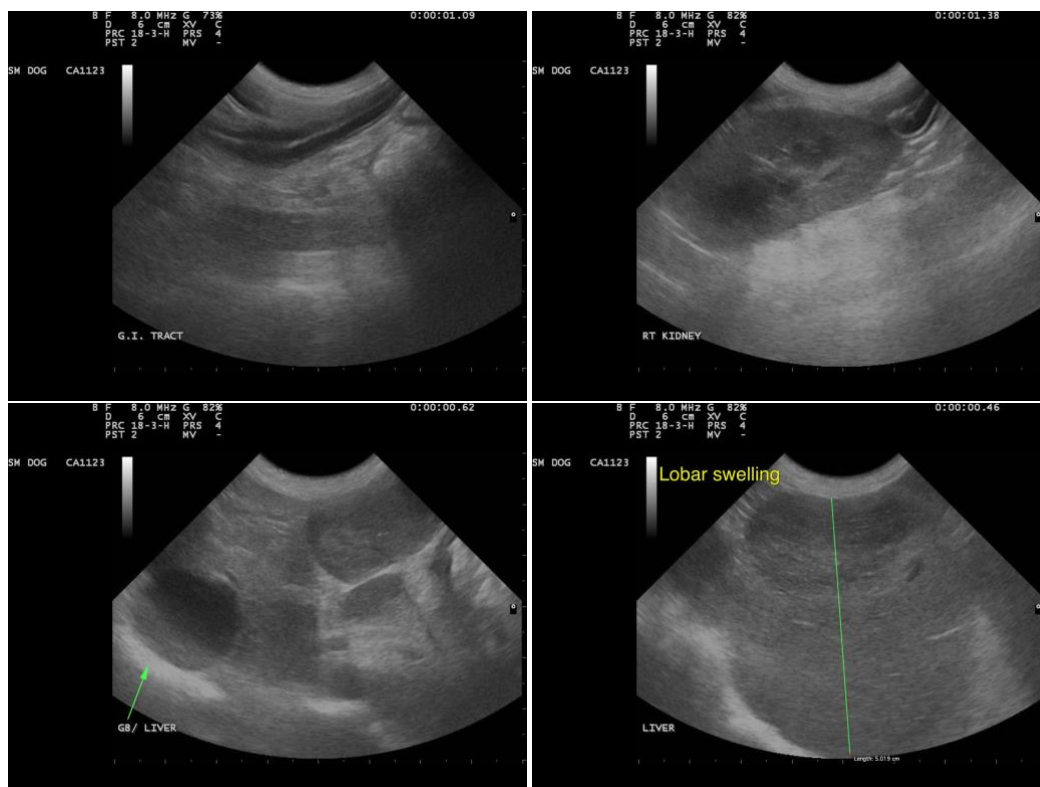
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The information and recommendations provided are based on the images presented by the referring veterinarian. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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)
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