



PATIENT

Cody O'Callaghan

SPECIES

Canine

BREED

Pekingese

SEX

MN

AGE

1 year

WEIGHT

12.2

INTERPRETED BY

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

**IMAGING
PERFORMED BY**

Evanna

HOSPITAL NAME

Animal Care Clinic of
Flanders

REFERRING VET

Dr. Hallihan

INVOICE

12482

DATE

10/29/21

PRESENTING CLINICAL SIGNS

vomited bile once , concerned about liver

Abnormal PE/Chem/CBC/UA Results: 10/23 ALT=634 10/8 ALT=282 UA-WNL EXCEPT +2 PROTIEN
UPC=.1

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, sediment, or calculi. The ureteral papillae were normal. The ureters were not visible which is normal. No evidence of inflammatory or neoplastic changes was noted.

The areas of the residual prostate and aortic trifurcation were free of pathology.

Normal size and margination were present in the kidneys. A normal 1:3 cortex / medulla ratio and normal corticomedullary definition were maintained. The echogenicity of the cortex was similar to or slightly less than normal liver parenchyma while the medulla echogenicity was hypoechoic to the cortex with no evidence of pelvic dilation. The left kidney measured 3.9 cm in length. The right kidney measured 4.2 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 0.35 cm width at the caudal pole and 0.37 cm width at the cranial pole. The right adrenal gland was indistinctly visualized, yet without pathology subjectively measuring 0.35 cm width at the caudal pole.

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 exhibited subjective subnormal size with maintained curvilinear capsule contour. Subjective generalized reduced hepatic parenchyma echogenicity with increased prominence and echogenicity of the portal vascular borders.

The gallbladder was non-distended in size with thin walls and primarily anechoic luminal content. 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. The gastric body wall width measured 0.29 cm.



PATIENT	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. The duodenum wall width measured 0.33 cm.
Cody O'Callaghan	
SPECIES	Normal visible colon wall layers were present with apparent formed feces in lumen.
Canine	Pancreas
BREED	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.
Pekingese	
SEX	Free Abdomen
MN	No overt lymphadenopathy or peritoneal effusion was present.
AGE	ULTRASONOGRAPHIC FINDINGS
1 year	Primary Findings
WEIGHT	<ul style="list-style-type: none"> Subnormal liver size with prominent to echogenic portal vascular borders - suspect primary potential acute Inflammatory hepatopathy with potential for portal hypoplasia / microvascular dysplasia
12.2	<ul style="list-style-type: none"> Suspect mild gastritis / gastroduodenitis
INTERPRETED BY	INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS
R. McKenzie Daniel, DVM, DABVP (Canine and Feline)	Although the portal vein was not definitively visualized in this study, no overt evidence of Intrahepatic or extrahepatic shunting, given the lack of renal or urinary bladder mineral, was noted. However, bile acid testing is recommended for further assessment. If post prandial bile acids are elevated, i.e., (>80-100), additional imaging may be indicated. Core biopsy or surgical biopsy of the liver may be necessary for further definition, or as to whether portal hypoplasia or microvascular dysplasia are present.
IMAGING PERFORMED BY	Leptospirosis titer/ PCR may be considered if clinically indicated. Pending bile acid testing, some or all of the following may be considered with as-needed gastrointestinal support and/or additional antibiotic therapy.
Evanna	
HOSPITAL NAME	Royal Canin Hepatic Support diet or Hills L/D, Metronidazole (7.5 mg/kg PO bid) over the next 14 days, Lactulose (Oral: 3.1-3.7 g/5 ml lactulose in a syrup base) long term to target 2-3 soft stools/day, with a high-quality protein supplement of minor amount of yogurt or cheddar cheese . Monitor bile acids, with attention paid to dropping albumin, BUN or cholesterol. SAME and nutraceuticals as needed. Ursodiol (10-15 mg/kg p.o. q24h) can be considered as hepatoprotectant and to enhance bile flow. Zinc serum level keep between 200—500 ug/dl. If deficient then Tx zinc acetate 1-3 mg/kg/day. Gastrointestinal protectants are recommended if the patient is anorexic.
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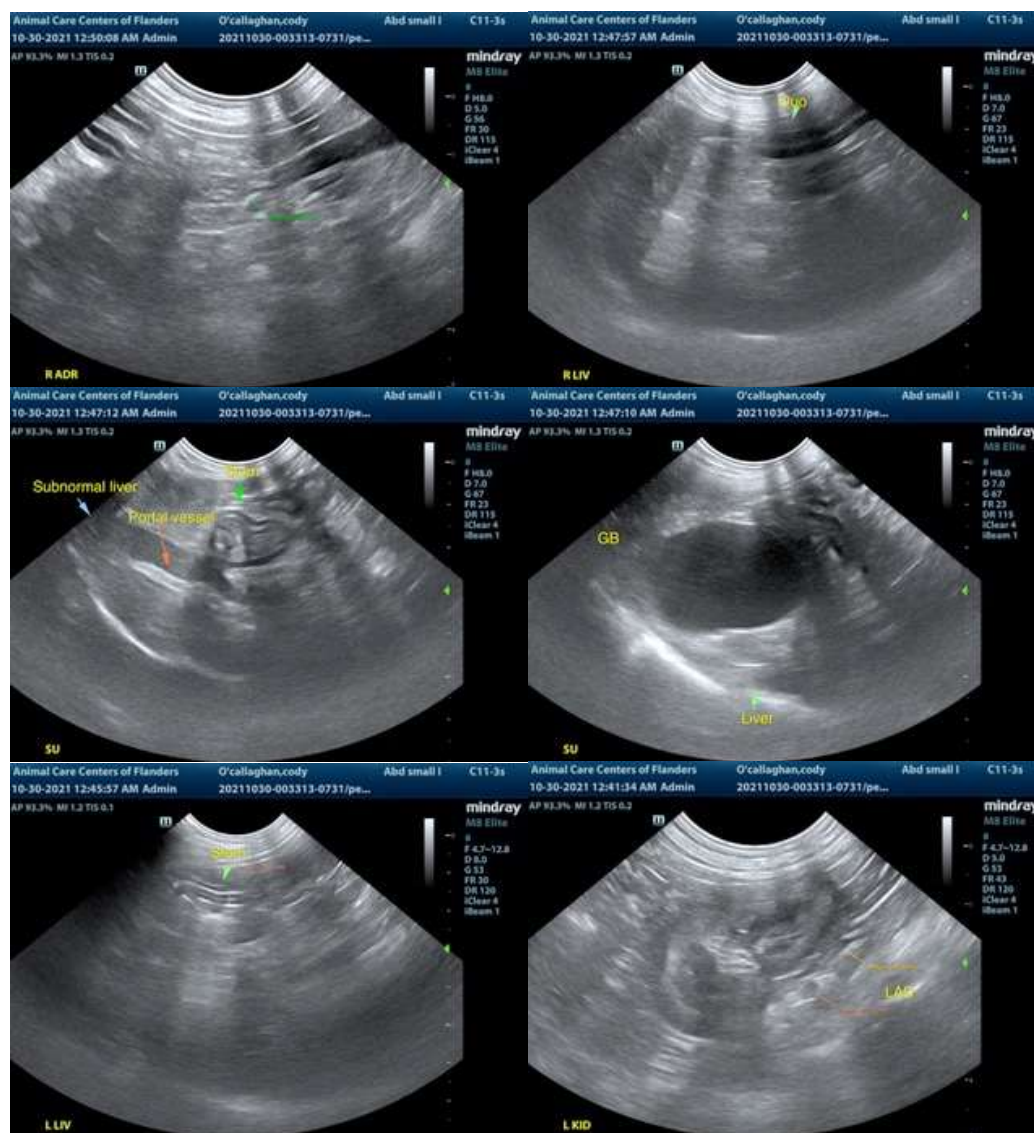
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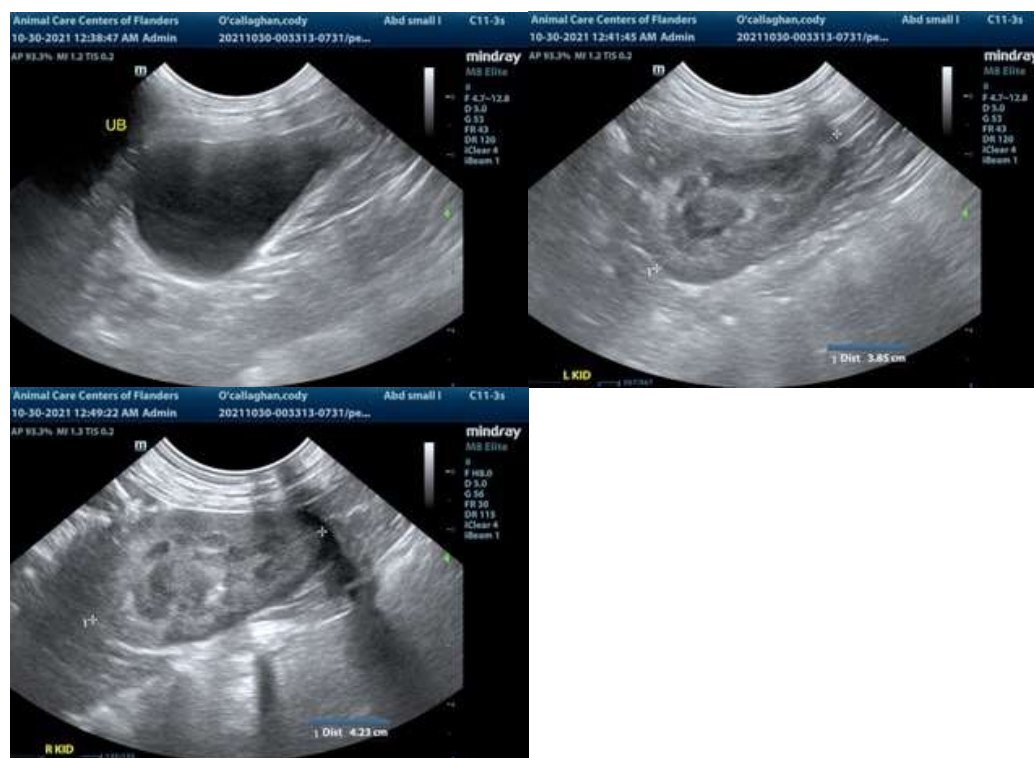
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Evanna



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)
info@SonoPath.com

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