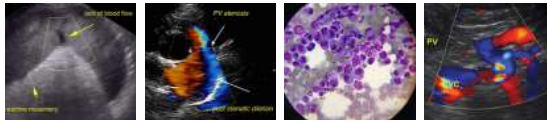


PATIENT	PRESENTING CLINICAL SIGNS
Princess Whalen	Hepatic Disease with biliary obstruction noted on wellness exam 7/27/21, recheck 9/2/21 showed worsening lab values and 1 lb weight loss. R sided hepatomegaly upon palpation Appetite is good, activity is normal
SPECIES	Abnormal PE/Chem/CBC/UA Results: CBC leukocytosis (20,000) with elevated lymphocytes Chem - elevated Phos 7.5, T bili 4.7(was 3.4 on 7/27) ALT 312 (was 263) AST 130 (was 93) ALk Phos 212(was 183) GGT 21 (was 15) TP 8.8 (was 8.3)
Feline	
BREED	ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN
DSH	<i>Urinary System</i>
SEX	The urinary bladder, trigone, cystourethral junction, and visible pelvic urethra to a depth of 2.0 cm exhibited normal thickness and tone. Primarily anechoic urine was present in the lumen. Mild particulate nondependent sediment was present without evidence of calculus formation. The ureteral papillae were normal. The ureters were not visible which is normal. No evidence of inflammatory or neoplastic mural changes were noted.
FS	
AGE	No evidence of pathology in the area of the aortic trifurcation.
12 Years	
WEIGHT	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 to moderate loss of corticomedullary symmetry and definition expected for the age of the patient. No evidence of pelvic dilation was present. The left kidney measured 4.4 cm in length. The right kidney measured 4.2 cm in length.
8.6 lbs	
INTERPRETED BY	<i>Adrenal Glands</i>
R. McKenzie Daniel, DVM, DABVP (Canine and Feline)	The left adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The left adrenal gland measured 0.47 cm width. The right adrenal gland was uniform in size and contour with a uniformly hypoechoic parenchyma. The right adrenal gland measured 0.44 cm width.
IMAGING PERFORMED BY	<i>Spleen</i>
Jenna Walsh	The spleen presented overall normal in size and contour with subtle generalized primarily uniform decreased echogenicity. No splenic masses or nodules. 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. The spleen measured 0.92 cm width.
HOSPITAL NAME	<i>Liver</i>
The Veterinary Hospital	The liver presented moderate to marked generalized enlargement with primarily symmetrical to rounded hepatic contour, generalized decreased hepatic parenchyma echogenicity with moderate coarse echotexture, and mild increased prominence in portal vascular borders. No distinct hepatic masses or nodules noted.
REFERRING VET	
Dr. Johnson	
INVOICE	The gallbladder was non-distended in size yet exhibiting moderate generalized thickened wall measuring 0.35 cm width with primarily anechoic content with minor particulate luminal debris. The cystic and common bile ducts exhibited generalized thickening without evidence of distension or obstructive pattern to the level of the duodenal papilla. The duodenal papilla was sonographically unremarkable measuring 0.5 - 0.6 cm diameter and without overt evidence of obstructive pathology.
47281	
DATE	
9-4-21	



PATIENT *Gastrointestinal*

Princess Whalen 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 measured 0.25 cm width.

SPECIES

Feline The small intestine exhibited primarily intact wall layering and maintained 1:3 muscularis/mucosa ratio with subjective propensity for mildly prominent jejunal and ileocolic junction muscularis layer. The lumen of the small intestine was empty with no signs of ileus, obstruction or foreign material. The duodenum wall measured 0.30 cm width and the jejunum wall measured 0.27 cm width. The ileocolic wall measured 0.43 cm width.

BREED

DSH

SEX

FS

AGE

12 Years

Normal visible colon wall layers were present with apparent formed feces in lumen.

Pancreas

The left limb, right limb, and base of the pancreas presented hypoechoic to heterogeneous echogenicity compared to adjacent omental fat. Mild asymmetrical capsule margination was present with mild variable parenchymal swelling and mild peripancreatic reactivity / inflammation. Minor generalized pancreatic duct dilation was present. No overt evidence of neoplasia.

WEIGHT

8.6 lbs

Free Abdomen

Intermittent mild mesenteric lymphadenopathy was noted.

INTERPRETED BY

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

Generalized mid to cranial abdominal primarily perihepatic reactive mesentery and small pockets of scant free fluid were present.

Brief sonographic assessment of the heart and thorax revealed mildly prominent to hypoechoic cranial thoracic to sternal lymph nodes. An example of a cranial thoracic to sternal lymph node measured 0.8 cm diameter. No evidence of pleural effusion.

IMAGING PERFORMED BY

Jenna Walsh

ULTRASONOGRAPHIC FINDINGS

Primary

- Hepatomegaly with generalized parenchyma hypoechogenicity and moderate coarse echotexture.
- Moderately thickened non-distended gallbladder with generalized thickened non-distended common bile duct to the level of the duodenal papilla.
- Chronic active pancreatitis.
- Subjective mild inflammatory gastroenteropathy pattern.
- Primarily perihepatic reactive mesentery and scant peritoneal free fluid.
- Mild cranial thoracic / sternal lymphadenopathy.
- Subjective mild hypoechoic spleen.

HOSPITAL NAME

The Veterinary Hospital

REFERRING VET

Dr. Johnson

Secondary

- Mild to moderate chronic renal changes.
- Mild urinary bladder sediment - suspect minor cellular or crystalline debris.

INVOICE

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DATE

9-4-21



PATIENT

Princess Whalen

SPECIES

Feline

BREED

DSH

SEX

FS

AGE

12 Years

WEIGHT

8.6 lbs

INTERPRETED BY

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

IMAGING PERFORMED BY

Jenna Walsh

HOSPITAL NAME

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Hospital

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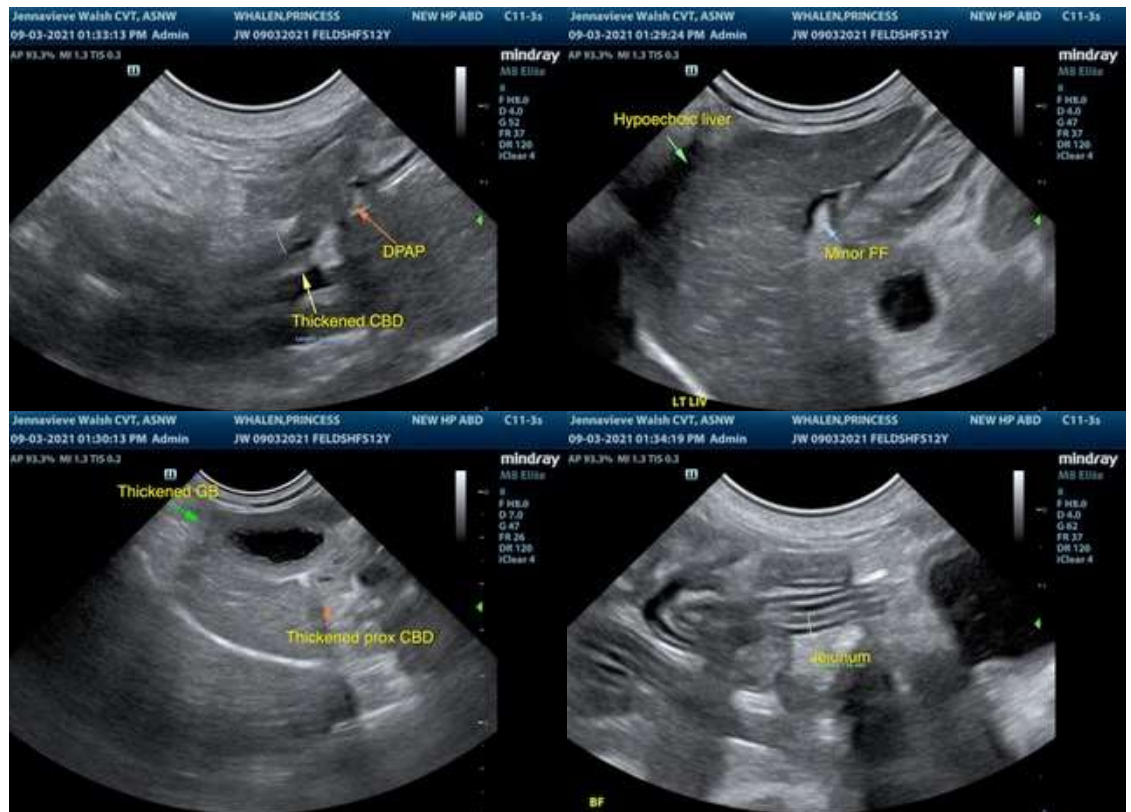
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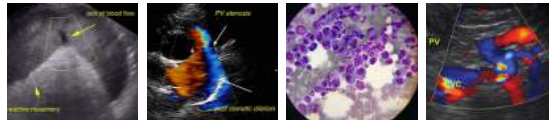
INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

Primary considerations for the hepatobiliary presentation may include acute on chronic moderate to severe cholangitis / cholangiohepatitis without overt evidence of post-hepatic obstruction with potential infiltrative hepatobiliary round cell neoplasia i.e., lymphoma or other. The possibility of potential multicentric neoplasia involving the spleen and potential cranial thoracic / sternal lymph nodes cannot be excluded.

Assuming normal clotting status, hepatic or hepatosplenic FNA using a 25 gauge needle warranted for screening cytology to assess for inflammatory cell type and/or neoplasia.

Pending sampling, aggressive medical therapy for acute on chronic cholangitis / cholangiohepatitis is recommended.





PATIENT

Princess Whalen

SPECIES

Feline

BREED

DSH

SEX

FS

AGE

12 Years

WEIGHT

8.6 lbs

INTERPRETED BY

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

IMAGING PERFORMED BY

Jenna Walsh

HOSPITAL NAME

The Veterinary
Hospital

REFERRING VET

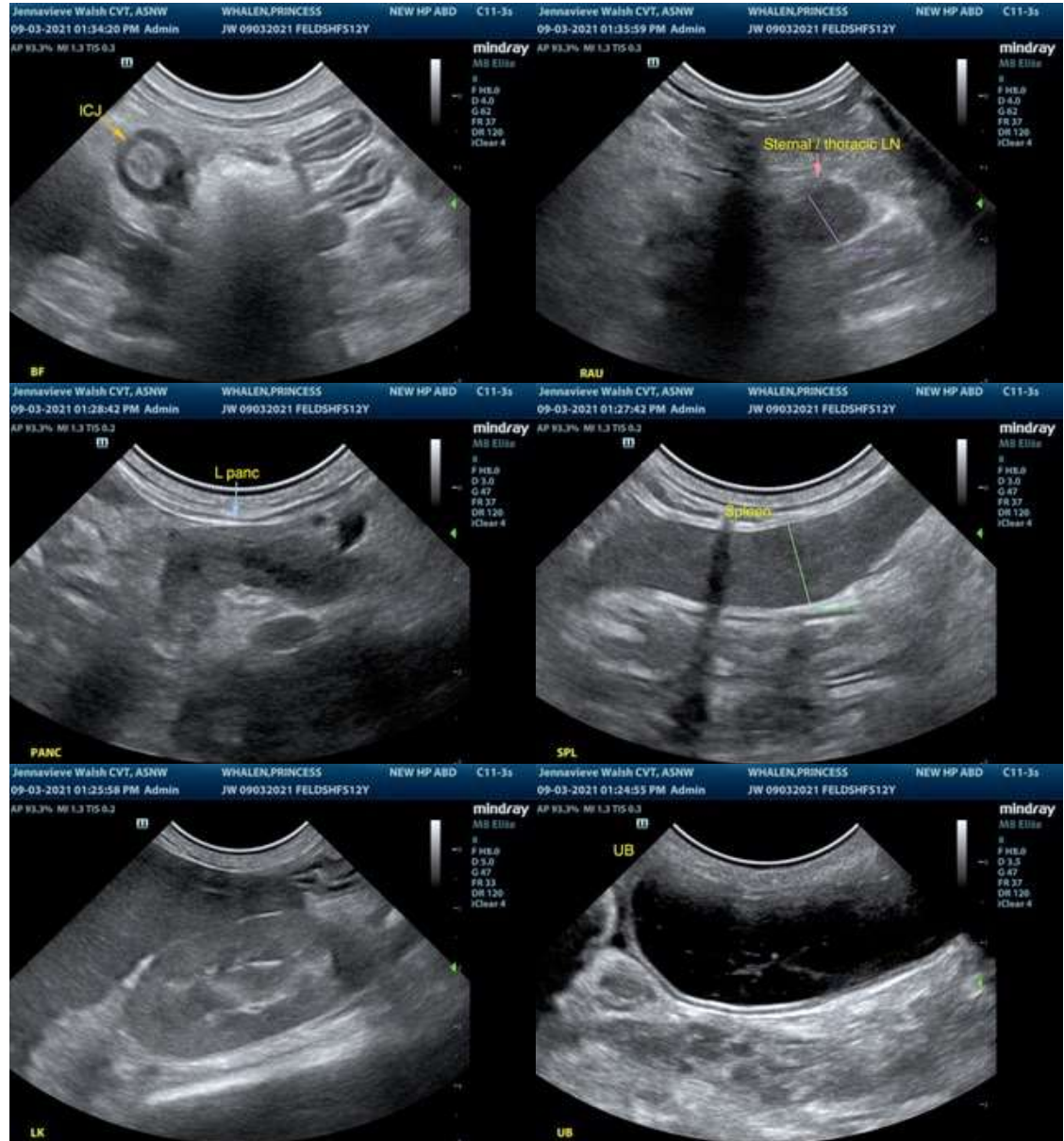
Dr. Johnson

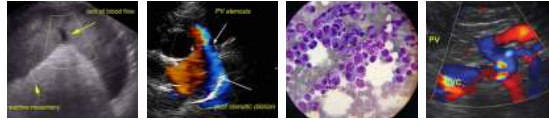
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9-4-21





PATIENT

Princess Whalen

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

Feline

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

DSH

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

SEX

FS

AGE

12 Years

WEIGHT

8.6 lbs

INTERPRETED BY

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

**IMAGING
PERFORMED BY**

Jenna Walsh

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