

PATIENT PRESENTING CLINICAL SIGNS

PATIENT
Princess Whalen

SPECIES
Feline

BREED
DSH

SEX
Spayed Female

AGE
12 Years

WEIGHT
7.8 Pounds

INTERPRETED BY
Eric Lindquist, DMV
DABVP, Cert. IVUSS

IMAGING PERFORMED BY
Sara Hansen

HOSPITAL NAME
The Vet Hospital

REFERRING VET
Dr. Berman

INVOICE
35809

DATE
2/22/22

PRESENTING CLINICAL SIGNS
Jaundice discoloration to skin and sclera Vomiting/inappetence at home History of cholangiohepatitis September 2021, responded well to prednisone, ursodiol, and antibiotics Patient was eating well until 2 days ago and has been gradually worsening
Abnormal PE/Chem/CBC/UA Results: - CBC - severe leukocytosis (WBC 85K, NEU 27K, LYM 53K), mild thrombocytopenia (PLT 70 -- likely clumping), mild anemia (HCT 25.8%), otherwise normal - Chemistry - marked elevation in T. Bili (4.2) and GGT (15), moderate elevations in ALP (121), AST (115) and ALT (211), mild elevated TCHOL (202), mild hypocalcemia (8.4), mild elevated BUN (40.3), CREAT wnl at 1.4, otherwise wnl -- linked - SDMA - HIGH at 40 ug/dL - T4 - normal - UA (cysto, amber) - USG 1.048, pH 5.0, PRO trace, BIL 3+, GLU/KET/BLD neg, UBG wnl, WBC 2/hpf, RBC 4/hpf, Suspect rods/cocci, Non-squamous epi cells 1-2/hpf, otherwise wnl; Sediment microscopy shows occasional bilirubin crystals and WBCs, otherwise no significant findings, bacterial clusters/crystals NOT observed Current Medications Convenia SQ 8 mg/kg yesterday, Triamcinolone SQ 1 mg (total), LRS fluid therapy

ULTRASONOGRAPHIC EXAMINATION OF THE ABDOMEN

Urinary System

The **urinary bladder**, trigone, and pelvic urethra presented normal thicknesses and normal tone. The ureters were not visible which is normal. No uroliths or sediment were visualized and anechoic urine was present. No evidence of inflammatory or neoplastic changes were noted. Ureteral papillae were normal.

The **kidneys** revealed normal size and structure, corticomedullary definition and ratio for this age. The cortices presented largely uniform texture with normal echogenic relationship to liver and spleen. Medullary structure differed distinctly from the cortex and no evidence of pelvic dilation was present. The capsules were acceptably uniform without significant irregularities. The left kidney measured 4.27 cm. The right kidney measured 4.7 cm.

Adrenal Glands

Both **adrenal glands** were visualized and recognized as having normal shape, size, position and echogenicity for this breed. The phrenic vasculature, glandular echogenicity and detail were unremarkable. Capsule, cortex, and medullary definition were normal for this age patient. The right adrenal gland measured 0.31 cm. The left adrenal gland measured 0.35 cm.

Spleen

The **spleen** was mildly enlarged (1.02 cm in width) with uniform, but subtly micronodular parenchyma, and undulating capsular contour. This is consistent with reactive spleen owing to immune stimulus or early infiltrative disease such as mast cell disease or lymphoma. 25-gauge FNA would be ideal if weight loss is an issue to differentiate early round cell neoplasia versus splenitis or reactive spleen all of which can present in this manner. Slight splenic lymphadenopathy of 5.0 mm noted.

Liver

The **liver** was diffusely enlarged, hypoechoic and irregular with hepatic lymphadenopathy. Portal vein was tortuous and congested. The common bile duct was tortuous, yet not obstructed, largely an age related change. Increased portal markings noted in the liver. Mixed echogenic, ill-defined nodular changes noted. Hepatic vascularity appeared normal. The cystic duct was tortuous. The gallbladder empty.



PATIENT

Transdiaphragmatic view revealed comet tail lung pattern and pleural effusion.

Princess Whalen

Gastrointestinal

SPECIES

Some retention of ingesta was noted in the stomach. The small intestine and colon were unremarkable.

Feline

Pancreas

The base and limbs of the pancreas were observed to be largely isoechoic to surrounding omental fat. Pancreatic duct and capsular contour were acceptably normal and parenchyma respected normal curvilinear patterns. No overt evidence of active inflammatory or neoplastic disease was noted.

BREED

DSH

Free Abdomen

SEX

Free fluid noted in the abdomen.

Spayed Female

ULTRASONOGRAPHIC FINDINGS

AGE

- Swollen irregular liver – suspect infiltrative disease such as lymphoma.

12 Years

INTERPRETATION OF THE FINDINGS & FURTHER RECOMMENDATIONS

WEIGHT

Chest radiographs warranted if not already performed. 25-gauge FNA spleen and liver recommended in this patient to confirm suspicion of round cell neoplasia/lymphoma, mast cell disease or similar. Abdominocentesis +/- pleurocentesis and cytospin could be considered to assess for exfoliating neoplasia. Prognosis is poor. The Prednisone history is likely partially suppressing a more significant infiltrative presentation.

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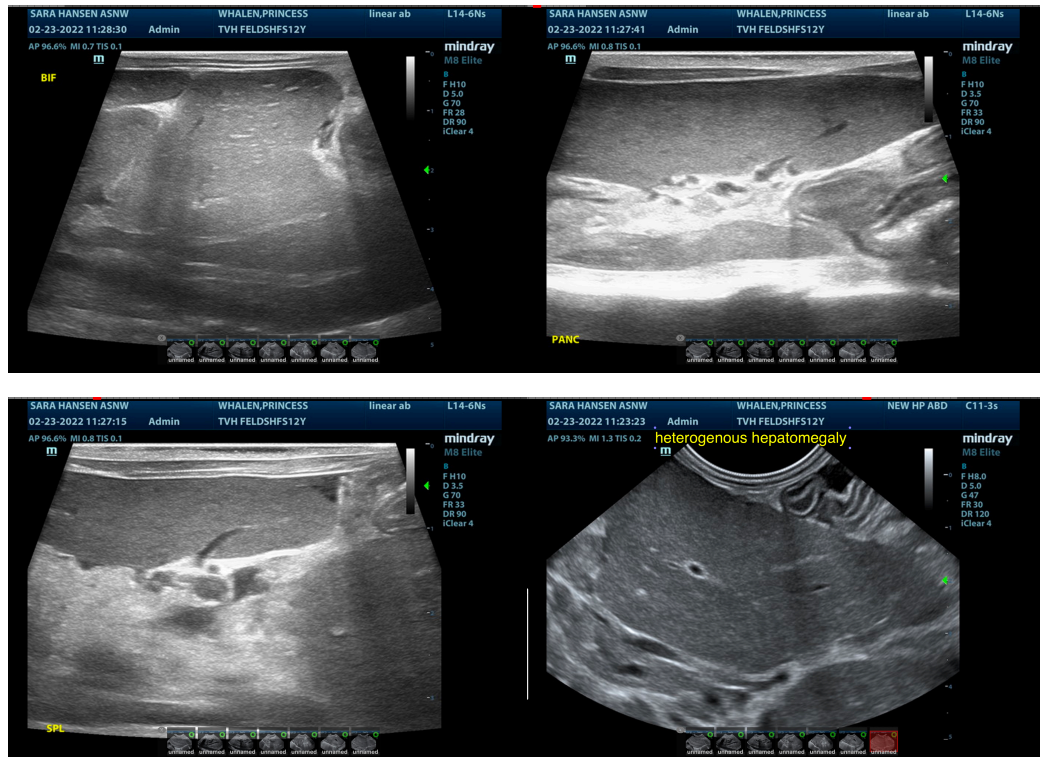
Dr. Berman

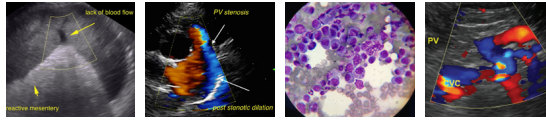
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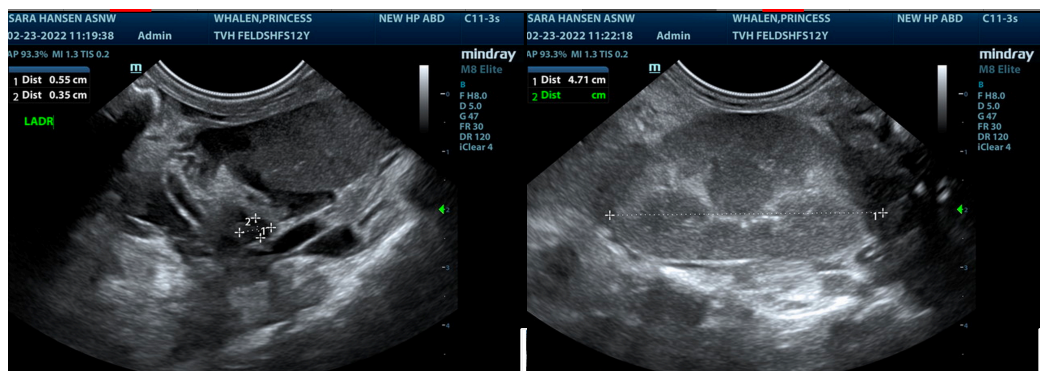
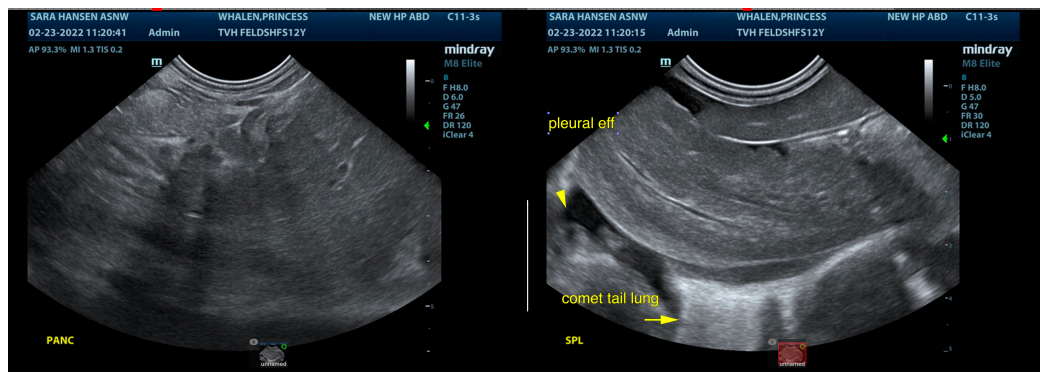
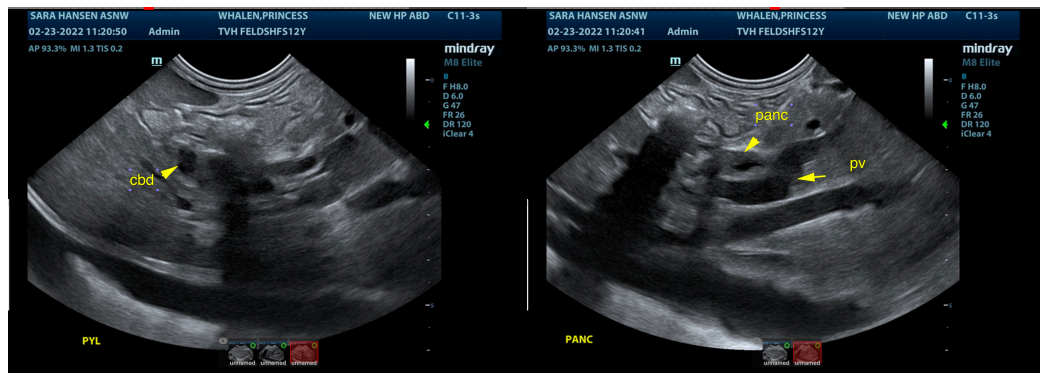
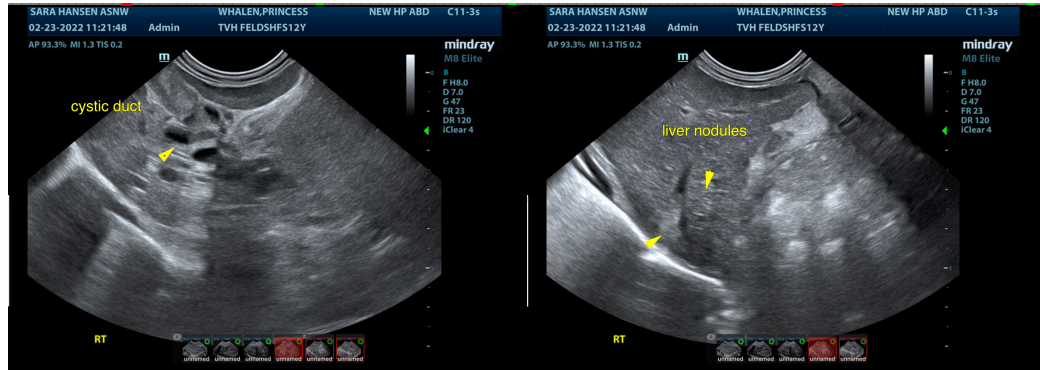
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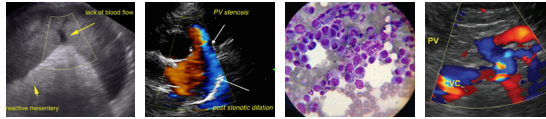
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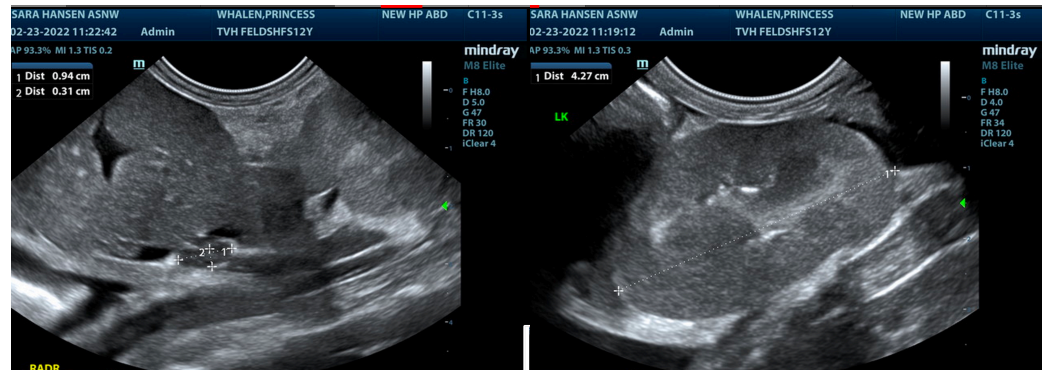
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The information and recommendations provided are based on the images presented by the referring veterinarian/sonographer. No evaluation can be communicated regarding pathology that was not visible in the image/video clips provided.

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.

Eric Lindquist, DMV, DABVP, Cert. IVUSS, CEO of SonoPath.com

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